GENE CONTROLLING FRUIT COLOR PHENOTYPE IN PALM

BACKGROUND OF THE INVENTION

[0001] The oil palm (*Elaeis guineensis* Jacq.) is the main source of vegetable oil in the world and is currently one of the most important crops planted in South East Asia, Africa and South America. The demand for palm oil is high and it has risen steadily for the past decade. As such it is desirable to identify traits that can be exploited to improve palm oil yield. However, the long selection cycle (10-12 years) for oil palm makes traditional breeding programs inefficient at providing improved planting material within a reasonable time frame.

[0002] One important trait related to palm oil production is the skin colour of the fruit. The skin color of the fruit of the oil palm can vary considerably based on external appearance, (**Fig. 1**). By far the most common type of fruit is deep violet to black at the apex and whitish-yellow at the base when unripe. Such a fruit has been described as *nigrescens* (Hartley, C. In: *The Oil Palm.* 47-94 (Longman, 1988)). The color of the *nigrescens* fruit varies to some extent on ripening, to either entirely red, or black over the upper half but red at the base (Hartley, C. In: *The Oil Palm.* 47-94 (Longman, 1988)). Harvesters of *nigrescens* oil palm fruit have to rely solely on the presence of loose fruits on the ground, detached from the oil palm bunch, to determine that the bunch containing the fruits is ready for harvest. The collection of loose fruits is labor intensive and can occupy up to 28% of the total harvesting time (Hitam, A. *et al.* In: *Proceedings of the 1999 PORIM International Palm Oil Congress (PIPOC)*– Emerging technologies and opportunities in the next millennium, ed. A. Darus, C. K. Weng, and S. S. R. S. Alwee, pp 325-336, Palm Oil Research Institute of Malaysia (PORIM), Bangi, Malaysia.). Indeed, difficulty with loose fruit collection is considered a significant contributor to the decline of oil extraction rates (OER) observed in Malaysian Plantations (Corley and Law. *Planter*, 77: 507-524 (2001)).

[0003] The other major fruit type is known as *virescens*, which is green before ripening and changes at maturity to light-reddish-orange in colour. Inheritance studies indicate that the *virescens* trait is controlled by a single gene (monogenic) and dominant (Corley and Tinker. In: *The Oil Palm* 4thedn, 287-325 (Blackwell Science, 2003))). Generally, fresh fruit bunch (FFB) yields of more than 30 tons/ha, with oil/bunch ranging from 29-30%, have been reported in progeny testing involving *virescens* palms (Wahid and Rajanaidu. Oil Palm Breeding and Competitive approaches. Agriculture Biotechnology International Conference

(ABIC), 12-15 September, 2004. Cologne, Germany.) and the yield profile is similar to *nigrescens* palms.

[0004] Both the *nigrescens* and *virescens* fruits occur in wild-type oil palm populations. However, although the *virescens* trait is dominant, the number of *virescens* palms found in natural populations is small, perhaps suggesting that they have been selected against by farmers or could have associated negative traits. In Nigeria for example only 50 of 10,000 bunches observed were v*irescens*, while in Angola only 72 of 10,000 bunches observed were *virescens*, (Hartley, C. In: *The Oil Palm.* 47-94 (Longman, 1988)). However, as reported by Corley and Tinker (Corley and Tinker. In: *The Oil Palm* 4thedn, 287-325 (Blackwell Science, 2003)), Rajanaidu found 6% *virescens* palms among his collections in Cameroon (Rajanaidu, N. In: *Proc. Int. Workshop.''Oil palm germplasm and utilization''. Palm Oil Res. Inst. Malaysia*, 59-83 (1986)). Currently, commercial plantations primarily utilize *nigrescens* palms. However, *virescens*, palms can be more desirable to planters as the clear difference in colour between ripe and unripe bunches make it easier to identify ripe bunches, particularly in tall palms, where bunches can be obscured by fronds.

[0005] Traditional methods do not allow identification of the fruit type of a given plant until it has matured enough to produce a first batch of fruit, which typically takes approximately six years after germination. In plantations desirous of introducing *viriscens* materials, significant land, labor, financial and energy resources are invested during the interval from germination to fruit production, some of which will ultimately be of the *nigrescens* fruit types. By the time *nigrescens* palms are identified, it is impractical to remove them from the field and replace them with *virescens* palms, and thus growers will have a mixture of both types of palm plants, which may affect yields for the 25 to 30 year production life of the plants due to inefficient identification of ripe *nigrescens* bunches. Similarly, the long selection cycle of 10-12 years from seed to seed makes it laborious to use traditional breeding methods to identify or develop true breeding strains of *virescens* palm oil.

BRIEF SUMMARY OF THE INVENTION

[0006] In some embodiments, the present invention provides method for determining a fruit color phenotype of a palm plant, the method comprising, providing a sample from a plant or seed; and detecting presence or absence of a *VIR* gene alteration in a genomic region corresponding to **SEQ ID NO:1** that confers a *virescens* phenotype to fruit, or detecting a presence or absence of a genetic marker linked to the alteration within 2,000 kb of the

genomic region, wherein the presence of the alteration or genetic marker predicts the presence of the *virescens* phenotype. In some cases, detection of the absence of the alteration or genetic marker predicts the presence of the *nigrescens* phenotype.

[0007] In some aspects the alteration comprises a nucleotide change that results in an encoded amino acid change, a splice site or other alteration resulting in a change in splicing, and/or a stop codon.

[0008] In some aspects the method comprises detecting the presence or absence of a VIR gene alteration in a genomic region corresponding to **SEQ ID NO:1** that confers a *virescens* phenotype to fruit.

[0009] In some cases, the alteration comprises a premature stop codon so as to generate a truncated protein compared to **SEQ ID NO:4**.

[0010] In some cases, alteration is a dominant negative mutation.

[0011] In some cases, the alteration is selected from the group corresponding to **SEQ ID NOS:7**, **9**, **11**, **13, or 15**, or the alteration produces a *VIR* allele that encodes an amino acid sequence selected from the group consisting of **SEQ ID NOS:5**, **8**, **10**, **12,** and **14**.

[0012] In some aspects, the *VIR* gene encodes (i) a polypeptide substantially (*e.g.*, at least 70, 75, 80, 85, 90, or 95%) identical or identical to **SEQ ID NO:4** or (ii) a polypeptide comprising at least 100, 125, 150, 175, 200, or 225 contiguous amino acids that are substantially (*e.g.*, at least 70, 75, 80, 85, 90, or 95%) identical or identical to to a corresponding fragment of the **SEQ ID NO:4**. For example, the polypeptide or polypeptide fragment could contain 0, 1, 2, 3, or 4 amino acid substitutions or deletions in comparison to **SEQ ID NO:4**.

[0013] In some aspects the method comprises detecting a presence or absence of a genetic marker linked to the alteration within 1, 10, 20, 50, 100, 200, 500, 1000 kb, or 2000kb from the genomic region.

[0014] In some aspects, the plant is less than 5 years old, or less than one year old. In some aspects, the plant is an oil palm.

[0015] In some aspects, the method comprises selecting the plant or seed for cultivation if the plant is predicted to have the *virescens* phenotype.

[0016] In some aspects, the method comprises selecting the plant or seed for cultivation if the plant is predicted to have the *nigrescens* phenotype.

[0017] In some cases, the plant or seed is discarded if the plant or seed is not predicted to have the *virescens* phenotype.

[0018] In some cases, the plant or seed is discarded if the plant or seed is predicted to have the *virescens* phenotype.

[0019] In some cases, the method further comprises predicting a shell thickness phenotype by detecting the presence or absence of a nucleic acid sequence associated with a *dura*, *tenera*, or *pisifera* phenotype. In some cases, the shell thickness phenotype is predicted from the same sample as the fruit color phenotype. In some cases, the shell thickness phenotype is predicted by detecting the presence or absence of a polymorphism at or near the *SHELL* locus, or at or near the locus of a gene encoding a MADS box containing protein associated with a *dura*, *tenera*, or *pisifera* phenotype.

[0020] In some embodiments, the present invention provides a method for segregating a plurality of palm plants into different categories based on predicted fruit color phenotype, the method comprising, providing a sample from each plant in the plurality of plants; detecting a presence or absence of a *VIR* gene alteration in a genomic region corresponding to **SEQ ID NO:1** that confers a *virescens* phenotype to fruit, or detecting a presence or absence of a genetic marker linked to the alteration within 2000 kb of the genomic region, wherein the presence of the alteration or genetic marker predicts the presence of the *virescens* phenotype; and segregating the plants into groups based on the predicted *virescens* phenotype of the plants. For example, plants can be segregated into one group predicted to have a *virescens* phenotype and segregated into a different group predicted to have a *nigrescens* phenotype.

[0021] In some aspects, the method comprises detecting the presence or absence of a *VIR* gene alteration in a genomic region corresponding to **SEQ ID NO:1** that confers a *virescens* phenotype to fruit.

[0022] In some cases, the alteration comprises a premature stop codon so as to generate a truncated protein compared to **SEQ ID NO:4**.

[0023] In some cases, the alteration is a dominant negative mutation.

[0024] In some cases, the alteration produces a *VIR* allele that encodes an amino acid sequence selected from the group consisting of **SEQ ID NOS:5**, **8**, **10**, **12,** and **14**.

[0025] In some cases, *VIR* gene encodes (i) a polypeptide substantially (*e.g.*, at least 70, 75, 80, 85, 90, or 95%) identical or identical to **SEQ ID NO:4** or (ii) a polypeptide comprising at least 100, 125, 150, 175, 200, or 225 contiguous amino acids that are substantially (*e.g.*, at least 70, 75, 80, 85, 90, or 95%) identical or identical to a corresponding fragment of **SEQ ID NO:4**. For example, the polypeptide or polypeptide fragment could contain 0, 1, 2, 3, or 4 amino acid substitutions or deletions in comparison to **SEQ ID NO:4**.

[0026] In some aspects, the method comprises detecting a presence or absence of a genetic marker linked to the alteration within 1, 10, 20, 50, 100, 200, 500, 1000, or 2000 kb from the genomic region.

[0027] In some aspects, the plant is less than 5 years old, or the plant is less than one year old. In some aspects, the plant is an oil palm.

[0028] In some cases, the method further comprises predicting a shell thickness phenotype by detecting the presence or absence of a nucleic acid sequence associated with a *dura*, *tenera*, or *pisifera* phenotype. In some cases, the shell thickness phenotype is predicted from the same sample as the fruit color phenotype. In some cases, the shell thickness phenotype is predicted by detecting the presence or absence of a polymorphism at or near the *SHELL* locus, or at or near the locus of a gene encoding a MADS box containing protein associated with a *dura*, *tenera*, or *pisifera* phenotype.

[0029] In some embodiments, the present invention provides a method for determining a fruit color phenotype of a palm plant, the method comprising, providing a sample from a plant or seed; and detecting presence or absence of an alteration in a VIR polypeptide corresponding to **SEQ ID NO:4** that confers a *virescens* phenotype to fruit, wherein the presence of the alteration predicts the presence of the *virescens* phenotype. In some cases, detection of the absence of the alteration predicts the presence of the *nigrescens* phenotype.

[0030] In some embodiments, the present invention provides a kit for determining the fruit color phenotype (*e.g.*, *virescens* or *nigrescens*) of a palm plant, the kit comprising, one or more oligonucleotide primers or probes comprising: a sequence of at least 6 (or 8, 10, 12, 14, 16, 18, 20, 22, 24, or more) nucleotides of **SEQ ID NO:17**; and/or; a sequence 100% complementary to at least 6 (or 8, 10, 12, 14, 16, 18, 20, 22, 24, or more) nucleotides of **SEQ ID NO:17**.

[0031] In some aspects, the primer or probe specifically hybridizes to palm plant DNA and/or to **SEQ ID NO:17**.

[0032] In some aspects, the kit comprises one or more oligonucleotide primers or probes comprising: a sequence of at least 6 (or 8, 10, 12, 14, 16, 18, 20, 22, 24, or more) nucleotides of **SEQ ID NO:1**; and/or; a sequence 100% complementary to at least 6 (or 8, 10, 12, 14, 16, 18, 20, 22, 24, or more) nucleotides of **SEQ ID NO:1**.

[0033] In some aspects, the primer or probe specifically hybridizes to **SEQ ID NO:1**.

[0034] In some aspects, the primer or probe specifically hybridizes to an alteration in **SEQ ID NO:1** indicating a *virescens* allele.

[0035] In some cases, the alteration is selected from the group corresponding to **SEQ ID NOS:7**, **9**, **11**, or **13**, or the alteration produces a *VIR* allele that encodes an amino acid sequence selected from the group consisting of **SEQ ID NOS:5**, **8**, **10**, **12,** and **14**.

[0036] In some aspects, a detectable label is linked to the oligonucleotide.

[0037] In some cases, the detectable label is fluorescent.

[0038] In some aspects, the kit further comprises a polynucleotide comprising a sequence substantially (*e.g.*, at least 70, 75, 80, 85, 90, 95, 97, 98, 99%) identical or identical to at least 100, 200, 300, 400, 500, 750, 1000 or more contiguous nucleotides of **SEQ ID NO:17** or **SEQ ID NO:1**.

[0039] In some aspects, the kit further comprises palm genomic DNA.

[0040] In some cases, the kit further comprises one or more oligonucleotide primers or probes for predicting a shell thickness phenotype. In some cases, the kit further comprises one or more immunological binding reagents (*e.g.*, peptides or peptide fragments) for predicting a shell thickness phenotype.

[0041] In some embodiments, the present invention provides isolated nucleic acid comprising a polynucleotide encoding a polypeptide comprising a sequence substantially (*e.g.*, at least 70, 75, 80, 85, 90, 95, 97, 98, 99%) identical or identical to **SEQ ID NO:4** or a polypeptide fragment comprising at least 100, 125, 150, 175, 200, or 225 contiguous amino acids that are substantially (*e.g.*, at least 70, 75, 80, 85, 90, or 95%) identical or identical to a corresponding fragment of **SEQ ID NO:4**. For example, the polypeptide or polypeptide fragment could contain 0, 1, 2, 3, or 4 amino acid substitutions or deletions in comparison to **SEQ ID NO:4**.

[0042] In some embodiments, the present invention provides a plant comprising a heterologous expression cassette, the expression cassette comprising a heterologous promoter operably linked to a polynucleotide encoding (i) a polypeptide comprising a sequence substantially (*e.g.*, at least 70, 75, 80, 85, 90, 95, 97, 98, 99%) identical or identical to **SEQ ID NO:4** or (ii) a polypeptide comprising at least 100, 125, 150, 175, 200, or 225 contiguous amino acids that are substantially (*e.g.*, at least 70, 75, 80, 85, 90, or 95%) identical to a corresponding fragment of **SEQ ID NO:4**. For example, the polypeptide could contain 0, 1, 2, 3, or 4 amino acid substitutions or deletions in comparison to **SEQ ID NO:4** or in comparison to at least 100, 125, 150, 175, 200, or 225 contiguous amino acids of **SEQ ID NO:4**.

[0043] In some aspects, the plant is a palm plant, or the plant is an oil palm plant.

[0044] In some aspects, the polypeptide comprises **SEQ ID NO:4**.

[0045] In some aspects, the plant is a *virescens* oil palm plant.

[0046] In some aspects, the plant is a *nigrescens* oil palm plant.

[0047] In some embodiments, the present invention provides an isolated nucleic acid comprising an expression cassette, the expression cassette comprising a heterologous promoter operably linked to a polynucleotide encoding a polypeptide comprising (i) a sequence substantially (*e.g.*, at least 70, 75, 80, 85, 90, 95, 97, 98, 99%) identical or identical to **SEQ ID NO:4** or (ii) a polypeptide comprising at least 100, 125, 150, 175, 200, or 225 contiguous amino acids that are substantially (*e.g.*, at least 70, 75, 80, 85, 90, or 95%) identical or identical to a corresponding fragment of **SEQ ID NO:4**. For example, the polypeptide could contain 0, 1, 2, 3, or 4 amino acid substitutions or deletions in comparison to **SEQ ID NO:4** or in comparison to at least 100, 125, 150, 175, 200, or 225 contiguous amino acids of **SEQ ID NO:4**.

[0048] In some embodiments, the present invention provides an isolated nucleic acid comprising an expression cassette comprising a promoter operably linked to a polynucleotide, which polynucleotide, when expressed in the plant, reduces expression of a VIR polypeptide in a plant (compared to a control plant lacking the expression cassette).

[0049] In some aspects, the polynucleotide comprises at least 20 contiguous nucleotides, or the complement thereof, of a nucleic acid encoding a VIR polypeptide (*e.g.*, an endogenous nucleic acid) substantially (*e.g.*, at least 70, 75, 80, 85, 90, 95, 97, 98, 99%) identical or identical to **SEQ ID NO:4**, such that expression of the polynucleotide in a plant inhibits expression of the endogenous VIR gene. In some aspects the polynucleotide has 0, 1, 2, 3, 4, 5 substitutions or deletions relative to at least 20 contiguous nucleotides of a nucleic acid (*e.g.*, an endogenous nucleic acid) encoding **SEQ ID NO:4**, such that expression of the polynucleotide in a plant inhibits expression of the endogenous VIR gene.

[0050] In some aspects, the polynucleotide comprises at least 20, 30, 40, 50, 75, or 100 contiguous nucleotides, or the complement thereof, of **SEQ ID NO:1** or **SEQ ID NO:3**.

[0051] In some cases, the polynucleotide encodes an siRNA, antisense polynucleotide, a microRNA, or a sense suppression nucleic acid, which when expressed in a plant suppresses expression of an endogenous *VIR* gene.

[0052] In some embodiments, the present invention provides a plant having a *virescens* phenotype, the plant comprising an expression cassette as described herein.

[0053] In some cases, the plant is a palm (*e.g.*, oil palm) plant.

[0054] In some embodiments, the present invention provides an isolated nucleic acid comprising an expression cassette comprising a promoter operably linked to a polynucleotide encoding a polypeptide comprising an amino acid sequence substantially (*e.g.*, at least 70, 75, 80, 85, 90, 95, 97, 98, 99%) identical or identical to at least 100, 125, 150, 175, 200, or 225 contiguous amino acids of **SEQ ID NO:4** but lacking at least a corresponding 3' terminal portion (*e.g.*, at least 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150 carboxyl terminal amino acids) of **SEQ ID NO:4**.

[0055] In some aspects, the polypeptide comprises the polypeptide encoded by **SEQ ID NOS:7**, **9**, **11**, **13**, or **15**.

[0056] In some embodiments, the present invention provides a plant having a *virescens* phenotype, the plant comprising an expression cassette as described herein.

[0057] In some aspects, the plant is a palm (*e.g.*, oil palm) plant.

[0058] In some embodiments, the present invention provides a method of making a plant as described herein, the method comprising introducing an expression cassette of the invention into a plant.

[0059] In some embodiments, the present invention provides a method of cultivating a plant of as described herein.

[0060] Other embodiments will be evident from reading the rest of the disclosure.

DEFINITIONS

[0061] A "polymorphic marker" refers to a genetic marker that distinguishes between at least two different alleles. Exemplary polymorphic markers include, but are not limited to, single nucleotide polymorphisms (SNPs), variable number of tandem repeat polymorphisms (VNTR), restriction fragment length polymorphisms, (RFLP), microsatellite markers, insertions or deletions in a DNA sequence (Indels) or simple sequence repeats of DNA sequence (SSRs).

[0062] A genomic region "corresponding to" a test sequence refers to a genomic DNA that aligns with the test sequence. It is generally expected that a plant genome will have only one genomic region (*i.e.*, a locus represented by two alleles in a diploid plant) corresponding to the test sequence. To the extent more than one genomic region from a plant can be aligned to the test sequence, the "corresponding" genomic region is the genomic region with the highest percent of identical nucleotides. Sequence comparisons can be performed using any BLAST including BLAST 2.2 algorithm with default parameters, described in Altschul *et al*., *Nuc.*

Acids Res. 25:3389-3402 (1977) and Altschul *et al*., *J. Mol. Biol*. 215:403-410 (1990), respectively.

[0063] As used herein, the terms "nucleic acid," "polynucleotide" and "oligonucleotide" refer to nucleic acid regions, nucleic acid segments, primers, probes, amplicons and oligomer fragments. The terms are not limited by length and are generic to linear polymers of polydeoxyribonucleotides (containing 2-deoxy-D-ribose), polyribonucleotides (containing D-ribose), and any other N-glycoside of a purine or pyrimidine base, or modified purine or pyrimidine bases. These terms include double- and single-stranded DNA, as well as double- and single-stranded RNA.

[0064] A nucleic acid, polynucleotide or oligonucleotide can comprise, for example, phosphodiester linkages or modified linkages including, but not limited to phosphotriester, phosphoramidate, siloxane, carbonate, carboxymethylester, acetamidate, carbamate, thioether, bridged phosphoramidate, bridged methylene phosphonate, phosphorothioate, methylphosphonate, phosphorodithioate, bridged phosphorothioate or sulfone linkages, and combinations of such linkages.

[0065] A nucleic acid, polynucleotide or oligonucleotide can comprise the five biologically occurring bases (adenine, guanine, thymine, cytosine and uracil) and/or bases other than the five biologically occurring bases.

[0066] Optimal alignment of sequences for comparison may be conducted by the local homology algorithm of Smith and Waterman *Add. Apl. Math*. 2:482 (1981), by the homology alignment algorithm of Needleman and Wunsch *J. Mol. Biol.* 48:443 (1970), by the search for similarity method of Pearson and Lipman *Proc. Natl. Acad. Sci. (U.S.A.)* 85: 2444 (1988), by computerized implementations of these algorithms (GAP, BESTFIT, BLAST, FASTA, and TFASTA in the Wisconsin Genetics Software Package, Genetics Computer Group (GCG), 575 Science Dr., Madison, WI), or by inspection.

[0067] "Percentage of sequence identity" is determined by comparing two optimally aligned sequences over a comparison window, wherein the portion of the polynucleotide sequence in the comparison window may comprise additions or deletions (*i.e.*, gaps) as compared to the reference sequence (which does not comprise additions or deletions) for optimal alignment of the two sequences. The percentage is calculated by determining the number of positions at which the identical nucleic acid base or amino acid residue occurs in both sequences to yield the number of matched positions, dividing the number of matched

positions by the total number of positions in the window of comparison and multiplying the result by 100 to yield the percentage of sequence identity.

[0068] The term "substantial identity" of polypeptide sequences means that a polypeptide comprises a sequence that has at least 75% sequence identity. Alternatively, percent identity can be any integer from 75% to 100%. Exemplary embodiments include at least: 75%, 80%, 85%, 90%, 95%, or 99% compared to a reference sequence using the programs described herein; preferably BLAST using standard parameters, as described below. One of skill will recognize that these values can be appropriately adjusted to determine identity of proteins encoded by two nucleotide sequences by taking into account codon degeneracy, amino acid similarity, reading frame positioning and the like. Polypeptides which are "substantially similar" share sequences as noted above except that residue positions which are not identical may differ by conservative amino acid changes. Conservative amino acid substitutions refer to the interchangeability of residues having similar side chains. For example, a group of amino acids having aliphatic side chains is glycine, alanine, valine, leucine, and isoleucine; a group of amino acids having aliphatic-hydroxyl side chains is serine and threonine; a group of amino acids having amide-containing side chains is asparagine and glutamine; a group of amino acids having aromatic side chains is phenylalanine, tyrosine, and tryptophan; a group of amino acids having basic side chains is lysine, arginine, and histidine; and a group of amino acids having sulfur-containing side chains is cysteine and methionine. Preferred conservative amino acids substitution groups are: valine-leucine-isoleucine, phenylalanine-tyrosine, lysine-arginine, alanine-valine, aspartic acid-glutamic acid, and asparagine-glutamine.

[0069] Another indication that nucleotide sequences are substantially identical is if two molecules hybridize to each other, or a third nucleic acid, under stringent conditions. Stringent conditions are sequence dependent and will be different in different circumstances. Generally, stringent conditions are selected to be about 5°C lower than the thermal melting point (Tm) for the specific sequence at a defined ionic strength and pH. The Tm is the temperature (under defined ionic strength and pH) at which 50% of the target sequence hybridizes to a perfectly matched probe. Typically, stringent conditions will be those in which the salt concentration is about 0.02 molar at pH 7 and the temperature is at least about 60°C.

[0070] A polypeptide region "corresponding to" a test sequence refers to an amino acid sequence that aligns with the test sequence. It is generally expected that a plant proteome

will have only one polypeptide region (*i.e.*, encoded by a locus represented by two alleles in a diploid plant) corresponding to the test sequence. To the extent more than one polypeptide region from a plant can be aligned to the test sequence, the "corresponding" polypeptide region is the polypeptide region with the highest percent of identical amino acids. Sequence comparisons can be performed using any BLAST including BLAST 2.2 algorithm with suitable parameters.

[0071] The term "promoter" or “regulatory element” refers to a region or sequence determinants located upstream or downstream from the start of transcription and which are involved in recognition and binding of RNA polymerase and other proteins to initiate transcription. Promoters need not be of plant origin, for example, promoters derived from plant viruses, such as the CaMV35S promoter, can be used.

[0072] The term "plant" includes whole plants, shoot vegetative organs/structures (*e.g.* leaves, stems and tubers), roots, flowers and floral organs/structures (*e.g.* bracts, sepals, petals, stamens, carpels, anthers and ovules), seed (including embryo, endosperm, and seed coat) and fruit (the mature ovary), plant tissue (*e.g*. vascular tissue, ground tissue, and the like) and cells (*e.g.* guard cells, egg cells, trichomes and the like), and progeny of same. The class of plants that can be used in the method of the invention is generally as broad as the class of higher and lower plants amenable to transformation techniques, including angiosperms (monocotyledonous and dicotyledonous plants), gymnosperms, ferns, and multicellular algae. It includes plants of a variety of ploidy levels, including aneuploid, polyploid, diploid, haploid and hemizygous.

[0073] An “expression cassette” refers to a nucleic acid construct, which when introduced into a host cell, results in transcription and/or translation of a RNA or polypeptide, respectively. Antisense constructs or sense constructs that are not or cannot be translated are expressly included by this definition.

[0074] The term "operably linked" refers to a functional linkage between a nucleic acid expression control sequence (such as a promoter, or array of transcription factor binding sites) and a second nucleic acid sequence, wherein the expression control sequence directs transcription of the nucleic acid corresponding to the second sequence.

[0075] A polynucleotide sequence is “heterologous to” an organism or a second polynucleotide sequence if it originates from a foreign species, or, if from the same species, is modified from its original form. For example, a heterologous promoter operably linked to a coding sequence refers to a promoter from a species different from that from which the

coding sequence was derived, or, if from the same species, a promoter which is different from any naturally occurring allelic variants.

BRIEF DESCRIPTION OF THE DRAWINGS

[0076] Fig. 1: Fruit exocarp colour phenotypes. a, Individual oil palm fruits from a *nigrescens* (*Nig*) fruit bunch. Unripe fruits are deep violet to black at the apex (visible in the bunch) and undergo minimal colour change upon ripening. **b,** Individual oil palm fruits from a *virescens* (*Vir*) fruit bunch. Unripe fruits are green at the apex and change to reddish orange upon ripening. **c,** ripe *nigrescens* and *virescens* fruit bunches.

[0077] Fig. 2: **Segregation of the RFLP marker, MET16, compared to that of the fruit color gene in the mapping population**. DNA from a subset of the mapping population was digested with *Bam*HI and analyzed by Southern blotting with the MET16 probe. The majority of the *virescens* fruit (93%) matched with the homozygous (top segregating band present) or heterozygous (both the segregating bands present) profile of the probe. At the same time, a very large proportion of the *nigrescens* fruits showed a profile consistent with only the bottom segregating band being present (homozygous for the wild type allele). N, *nigrescens* fruits. V, *virescens* fruits. Palm identification numbers are indicated above. Symbol "-" indicates a palm for which fruit colour could not be determined in the field.

[0078] Fig. 3: **Linkage group 1 of the genetic linkage map of the *VIR* locus**. The *VIR* locus is shown as "*VIR*," SNP markers are designated "SNPM#," where "#" denotes a number, the RFLP marker is designated "*MET16,"* and the simple sequence repeat (SSR) markers are designated with a lower case "s" followed by "Eg," "PSc," or "Mg," followed by a number.

[0079] Fig. 4: Structure of the VIR gene and diagram of the five mutation events accounting for the *virescens* fruit colour phenotype. The 2,441 bp *VIR* gene codes for a 236 amino acid homolog of OsMYB113, which is an R2R3 class transcription factor. The R2 and R3 domains are intact in both wild type and sequenced mutants. However, the five observed mutations in sequenced *virescens* palms each caused a truncation in the activation domain of the protein. The relative locations of early stop codons (octogon), frame shift introducing deletions (triangle) and rearrangement with small duplication (arrow loop) are shown.

[0080] Fig. 5: **VIR gene sequences. a**, Full cDNA sequence of wild-type (*nigrescens*) *VIR* (**SEQ ID NO:20**). The sequence of exon 3, in which *VIR* mutation Events 1 through 5 occur, is bolded and underlined. **b**, Exon 3 sequence including the Event 1 mutation (**SEQ ID**

NO:21). The A-to-T nonsense mutation (lower case, bold) introduces the boxed stop codon. **c**, Exon 3 sequence including the Event 2 mutation (**SEQ ID NO:22**). The G-to-T nonsense mutation (lower case, bold) introduces the boxed stop codon. **d**, Exon 3 sequence including the Event 3 mutation (**SEQ ID NO:23**). The G-to-A nonsense mutation (lower case, bold) introduces the boxed stop codon. **e**, Exon 3 sequence including the Event 4 mutation (**SEQ ID NO:24**). The two-bp deletion (dashes) introduces the downstream boxed top codon. **f**, Exon 3 sequence including the Event 5 rearrangement (**SEQ ID NO:25**). The rearrangement introduces the boxed premature stop codon.

[0081] Fig. 6: Five independent *VIR* mutations account for *virescens* fruit exocarp colour phenotype. **a**, Diagram of the *VIR* gene. The 2.4 Kb locus (top line) includes three exons (open boxes) encoding the regions of the R2R3-MYB protein, as indicated by dashed lines. The protein (bottom diagram) includes two helix-loop-helix motifs, R2 and R3, followed by a transcriptional activation domain (grey box). Symbols above the activation domain represent relative positions of the Event 1-5 mutations. Symbol colours indicate the specific mutational event as shown in panel b. **b**, Protein sequence of the carboxy-terminal region of VIR encoded by wild-type (SEQ ID NO:26) and mutant VIR alleles. Nonsense point mutations (Events 1-3; SEQ ID NOS:27-29), a two bp frameshift deletion (Event 4; SEQ ID NO:30) and a rearrangement (Event 5; SEQ ID NO:31) each results in premature termination of the activation domain at the indicated amino acid position. DNA sequences and details of the Event 5 rearrangement are provided in **Figs**. **4** and **5**.

[0082] Fig. 7: **Geographic sources of VIR mutant alleles.** Palms were genotyped by sequencing to identify homozygosity or heterozygosity for each of the five identified *VIR* mutations (Events 1-5). The location(s) of palms harbouring each of the mutation events in Africa is shown.

[0083] Fig. 8: **Phylogenetic analysis of *VIR* and various R2R3-MYB family members**. Species abbreviations are *Arabidopsis thaliana* (At), *Zea mays* (Zm), *Sorghum bicolor* (Sb), *Oryza sativa* (Os), *Epimedium sagittatum* (Es), *Rosa rugosa* (Rr), *Rubus idaeus* (Ri), *Rubus* hybrid (Rubus), *Prunus persica* (Pp), *Prunus dulcis* (Pd), *Malus* × *domestica* (Md), *Malus* hybrid (Malus), *Malus pumila* (Mp), *Fragaria* × *ananassa* (Frag), *Fragaria vesca* (Fv), *Gerbera hybrida* (Ger), *Medicago truncatula* (Mt), *Vitis vinifera* (Vv), *Brassica rapa* (Br), *Glycine max* (Gm), *Elaeis guineensis* (Eg), *Picea glauca* (Pg), *Dendrobium* sp. XMW-2002-10 (Dend), and *Gossypium hirsutum* (Gh). Monocots and dicots are designated with “m” and “d” respectively.

[0084] Fig. 9: **Alignment of R2R3 MYB domains of various related MYB genes from several species (SEQ ID NOS:32-61)**. R2 and R3 domains of closely related MYB proteins were used to construct the phylogenetic tree shown in **Fig. 8**. The bar graph represents level of conservation. Abbreviations are as described in the legend of **Fig. 8**.

[0085] Fig. 10: **Anthocyanin profiles in the *virescens* and *nigrescens* exocarp**. **a**, Exocarp extracts in acidic and alkaline conditions. The *nigrescens* extract was brilliant red in acid and turned green under alkaline conditions. The *virescens* extract, however, was light orange and did not change under alkaline conditions. **b**, UV-VIS spectrophotometric profile of the extracts at pH 1. *Nigrescens* exhibited a maximum absorbance peak at about 520 nm. This peak was not observed in *virescens*. Anthocyanins are known to absorb strongly around this wavelength. **c**, HPLC profile at 520 nm. The *nigresens* extract had at least 3 major anthocyanin peaks at 520 nm, which were absent in *virescens.* **d**, Transcriptome analyses of *nigrescens* and *virescens* whole fruit at 8 WAA. The average expression measured as $\log_{10}$ fragments per thousand mapped (FPKM) for all transcript reads matching each gene in the anthocyanin phenylpropanoid pathway was calculated, and the values obtained from *virescens* fruits was subtracted from those obtained from *nigrescens* fruits. Gene groups are plotted in pathway order, suggesting that *virescens* fruits display impaired Myb/bHLH/WD-repeat regulated gene expression beginning at the CHS step of the pathway.

[0086] Fig. 11: **Sequence alignment of wild-type and mutant *VIR* alleles (nucleotide sequences = SEQ ID NOS:62-67; amino acid sequences = SEQ ID NOS:4, 5, 8, 10, 12 and 14, respectively)**.

[0087] Fig. 12: **Restriction enzyme-based assay for genotyping the *vir*^{Event2} allele**. **a**, Depicts the *AseI* cleavage site present in the *vir*^{Event2} allele (SEQ ID NO:68) and binding sites for forward (SEQ ID NO:69) and reverse (SEQ ID NO:70) amplification primers. **b**, Depicts the results from amplifying the region flanked by the forward and reverse primers denoted in **a** to produce an amplicon, digesting a portion of the amplicon with *AseI*, and separating both the digested portion and an undigested portion by gel electrophoresis to differentially detect plants containing a VIR/VIR, VIR/*vir*^{Event2}, or *vir*^{Event2}/*vir*^{Event2} genotype.

[0088] Fig. 13: **Single nucleotide primer extension-based assay for genotyping the *vir*^{Event2} allele.** **a**, Depicts an exemplary primer (SEQ ID NO:72) and primer extension product (SEQ ID NO:73) for detecting the wild-type *VIR* allele (template = SEQ ID NO:71). The primer extension product contains a 3' cytosine nucleotide linked to a detectable

fluorescein derivative, denoted as ^{FAM}C. **b**, Depicts an exemplary primer (SEQ ID NO:72) and primer extension product (SEQ ID NO:75) for detecting the *vir*^{Event2} allele (template = SEQ ID NO:74). The primer extension product contains a 3' adenine nucleotide linked to a detectable rhodamine derivative, denoted as ^{TAM}A (TAMRA) . Thus plants containing a a VIR/VIR, VIR/*vir*^{Event2}, or *vir*^{Event2}/*vir*^{Event2} genotype can be differentially detected.

[0089] Fig. 14: **Restriction enzyme-based assay for genotyping the *vir*^{Event3} allele**. **a**, Depicts the *AluI* cleavage site present in the *vir*^{Event3}allele (SEQ ID NO:76) and binding sites for forward (SEQ ID NO:77) and reverse (SEQ ID NO:78) amplification primers. **b**, Depicts the results from amplifying the region flanked by the forward and reverse primers denoted in **a** to produce an amplicon, digesting a portion of the amplicon with *AluI*, and separating both the digested portion and an undigested portion by gel electrophoresis to differentially detect plants containing a VIR/VIR, VIR/*vir*^{Event3}, or *vir*^{Event3}/*vir*^{Event3} genotype.

[0090] Fig. 15: **Single nucleotide primer extension-based assay for genotyping the *vir*^{Event3} allele.** **a**, Depicts an exemplary primer (SEQ ID NO:80) and primer extension product (SEQ ID NO:81) for detecting the wild-type *VIR* allele (template = SEQ ID NO:79). The primer extension product contains a 3' cytosine nucleotide linked to a detectable fluorescein derivative, denoted as ^{FAM}C. **b**, Depicts an exemplary primer (SEQ ID NO:80) and primer extension product (SEQ ID NO:83) for detecting the *vir*^{Event3} allele (template = SEQ ID NO:82). The primer extension product contains a 3' thymine nucleotide linked to a detectable rhodamine derivative, denoted as ^{TAM}T (TAMRA) . Thus plants containing a VIR/VIR, VIR/*vir*^{Event3}, or *vir*^{Event3}/*vir*^{Event3} genotype can be differentially detected.

[0091] Fig. 16: **Restriction enzyme-based assay for genotyping the *vir*^{Event5} allele**. **a**, Depicts the *AseI* cleavage site present in the *vir*^{Event5}allele (SEQ ID NO:84) and binding sites for forward (SEQ ID NO:85) and reverse (SEQ ID NO:86) amplification primers. **b**, Depicts the results from amplifying the region flanked by the forward and reverse primers denoted in **a** to produce an amplicon, digesting a portion of the amplicon with *AseI*, and separating both the digested portion and an undigested portion by gel electrophoresis to differentially detect plants containing a VIR/VIR, VIR/*vir*^{Event5}, or *vir*^{Event5}/*vir*^{Event5} genotype.

[0092] Fig. 17: **Single nucleotide primer extension-based assay for genotyping the *vir*^{Event5} allele.** **a**, Depicts an exemplary primer (SEQ ID NO:89) and primer extension product (SEQ ID NO:90) for detecting the wild-type *VIR* allele (template = SEQ ID NO:87;

complement = SEQ ID NO:88). The primer extension product contains a 3' thymine nucleotide linked to a detectable fluorescein derivative, denoted as A^{FAM}. **b**, Depicts an exemplary primer (SEQ ID NO:89) and primer extension product (SEQ ID NO:90) for detecting the vir^{Event5} allele (template = SEQ ID NO:91; complement = SEQ ID NO:92). The primer extension product contains a 3' cytosine nucleotide linked to a detectable rhodamine derivative, denoted as G^{TAM} (TAMRA). Thus plants containing a VIR/VIR, VIR/vir^{Event5}, or $vir^{Event5}/vir^{Event5}$ genotype can be differentially detected.

[0093] Fig. 18: : **Single nucleotide primer extension-based assay for genotyping the vir^{Event1} allele.** **a**, Depicts an exemplary primer (SEQ ID NO:95) and primer extension product (SEQ ID NO:96) for detecting the wild-type *VIR* allele (template = SEQ ID NO:94). The primer extension product contains a 3' thymine nucleotide linked to a detectable fluorescein derivative, denoted as ^{FAM}T. **b**, Depicts an exemplary primer (SEQ ID NO:95) and primer extension product (SEQ ID NO:98) for detecting the vir^{Event1} allele (template = SEQ ID NO:97). The primer extension product contains a 3' adenine nucleotide linked to a detectable rhodamine derivative, denoted as ^{TAM}A (TAMRA). Thus plants containing a VIR/VIR, VIR/vir^{Event1}, or $vir^{Event1}/vir^{Event1}$ genotype can be differentially detected.

[0094] Fig. 19: **Single nucleotide primer extension-based assay for genotyping the vir^{Event4} allele.** **a**, Depicts an exemplary primer (SEQ ID NO:101) and primer extension product (SEQ ID NO:102) for detecting the wild-type *VIR* allele (template = SEQ ID NO:99; complement = SEQ ID NO:100). The primer extension product contains a 3' adenine nucleotide linked to a detectable fluorescein derivative, denoted as T^{FAM}. **b**, Depicts an exemplary primer (SEQ ID NO:101) and primer extension product (SEQ ID NO:105) for detecting the vir^{Event4} allele (template = SEQ ID NO:103; complement = SEQ ID NO:104). The primer extension product contains a 3' thymine nucleotide linked to a detectable rhodamine derivative, denoted as A^{TAM} (TAMRA). Thus plants containing a VIR/VIR, VIR/vir^{Event4}, or $vir^{Event4}/vir^{Event4}$ genotype can be differentially detected.

DETAILED DESCRIPTION OF THE INVENTION

I. Introduction

[0095] The inventors have discovered the *VIR* gene, which is responsible for fruit color type and predicted to be a R2R3-Myb transcription factor. Truncations providing the

virescens trait primarily deleted protein protein interaction domains and other regulatory domains, while leaving the DNA binding domain functionally intact. Thus, the truncated *VIR* genes can bind to, and sequester, transcription factor binding elements in the genome from wild-type *VIR*. These findings provide a genetic explanation for the monofactorial and dominant characteristics of the fruit color phenotype, and they have implications in oil palm breeding and commercial seed production.

[0096] The present disclosure describes the construction of a dense genetic map for a selfed palm, designated T128 (0.151/128 x 0.151/128), from Malaysian Palm Oil Board's (MPOB) Nigerian germplasm collection (Rajanaidu, N. In: Proceedings of the 12th Plenary Meeting of Association for the Taxonomic Study of the flora of tropical Africa (AETFAT), Mitteilingen Inst. Allg. Bot. Hamburg, Germany, pp 39-52 (1990); ; Cheah, S. *et al*. In: Proceedings of the 1999 PORIM International Palm Oil Conference (eds Darus, K., Chan, K. W and Sharifah, S. R. S. A) Palm Oil Research Institute of Malaysia , pp 297-320 (1999)). A mapping population consisting of 240 palms was used for generating the genetic linkage map in this study. Six independent populations were also used to confirm the linkage of markers to the fruit color locus.

[0097] A polymorphic marker closely linked to the *VIR* gene, or the identification of the *VIR* gene itself and the use of a polymorphic marker located within the gene itself, is of significant use, as it can be used by seed producers as a quality control tool to i) reduce or eliminate *nigrescens* contamination of *virescens* seed or plantlets, and ii) positively identify *virescens* seeds or plantlets which are then selected as suitable planting material for commercial palm oil production. The identification of the *VIR* gene or a marker genetically linked to *virescens* trait is also of use in breeding programmes. The marker or the alleles of the gene responsible for the trait can be used to separate the *virescens*, and *nigrescens* plants in the nursery (*e.g.*, at the seed or seedling stage); the advantage here being that they could be planted separately based on fruit color phenotype, and cross-pollination can be reduced or eliminated. Finally, due to the dominant negative nature of at least some of the *virescens* alleles described herein, homozygous *virescens* lines can provide *virescens* palms even if crossed to a *nigrescens* line, whether accidentally or deliberately.

[0098] Any marker that exists that is polymorphic between the parent *nigrescens* and *virescens* plant in a cross and is linked to the *VIR* locus has the potential to serve as a molecular signal to identify *virescens* plants in a cross. For example, if a *virescens* plant, which is homozygous for mutant and dominant "*VIR*" (*i.e.*, V/V) at a given SNP position near

the fruit color locus is crossed with a *nigrescens* plant that is homozygous for wildtype and recessive "*vir*" (*i.e.*, v/v) at the same SNP position, then one could genotype seeds of the cross, or one could genotype plantlets arising from seeds of the cross, at the SNP position to track and identify contaminant seeds or plantlets. Seeds that are determined to be heterozygous at the SNP position, (*i.e.*, V/v) or homozygous "V" at the SNP position (*i.e.*, V/V) are very likely to be *virescens*, unless (an unlikely) recombination between the marker and the *VIR* gene had occurred in the individual being genotyped. Similarly, seeds which are homozygous at the SNP position for "v", (*i.e.*, v/v), are *nigrescens* contaminant plants and likely to produce fruit that does not change color significantly upon ripening. Markers that are in closer proximity to the *VIR* locus would have higher predictive accuracy than markers that are farther away from the locus, because the closer the marker is to the *VIR* gene, the less likely a recombination could occur which would break the linkage between the marker and the *VIR* gene. Consequently, polymorphic markers within the *VIR* gene itself are expected to have the strongest predictive power, and analysis of multiple markers closely linked to or within the *VIR* gene may be advantageous.

II. Determination of fruit color phenotype

[0099] In view of the discovery that the *VIR* genotype segregates with the *virescens* / *nigrescens* fruit color phenotype, genotyping a plant or seed at the *VIR* locus or at adjacent genomic regions can be used to predict the fruit color phenotype of a palm plant.

[0100] **SEQ ID NO:4** represents the predicted amino acid sequence of the protein expressed in oil palm of the *nigrescens* fruit type. In oil palm of the *nigrescens* fruit type, the proteins derived from *nigrescens* alleles of the *VIR* gene include multiple Myb-type transcription factor DNA binding domains as well as additional C-terminal amino acids.

[0101] **SEQ ID NOs: 5**, **8**, **10**, **12**, and **14** represent the predicted amino acid sequence of proteins encoded by naturally occurring dominant negative alleles in oil palm of the *virescens* fruit type. In some embodiments, endogenous *virescens* protein is a truncation of **SEQ ID NO: 4** caused by a premature stop codon. In some cases, the premature stop codon results from a frame shift mutation. In some cases, the premature stop codon results from a rearrangement within the gene. In still other cases, the premature stop codon results from a mutation in one, two, three or more nucleotides within the *VIR* gene. In other emobodiments, the endogenous *virescens* protein is not truncated relative to **SEQ ID NO: 4**, yet is still dominant negative due to, *e.g.*, a point mutation, insertion, deletion, or other alteration. In some cases, the dominant negative mutation is in exon3 of *VIR*. In some cases, the

endogenous *virescens* allele is recessive. In such cases, the *virescens* phenotype is identified or detected in plants that are homozygous for the recessive *virescens* mutation. A recessive *virescens* mutation can include, for example, a premature stop codon that does not leave a functionally intact DNA binding domain. Alternatively, a recessive *virescens* mutation can contain a mutation that reduces transcription or translation of *VIR*, or reduces the stability of VIR.

[0102] Oil palm plants of the *nigrescens* fruit type can result from at least two possibilities: i) both alleles coding for the **SEQ ID NO:4** protein sequence, or ii) one allele coding for a **SEQ ID NO:4** protein sequence, and one allele coding for a different sequence that is not dominant negative over the **SEQ ID NO:4** allele.

[0103] Oil palm plants of the *virescens* fruit type are the result of one of several possibilities, including, but not limited to: i) two *VIR* alleles, each of which encode for a dominant negative VIR protein such as a *VIR* protein containing an amino acid sequence selected from the group consisting of **SEQ ID NO:5**, **SEQ ID NO:8**, **SEQ ID NO:10**, **SEQ ID NO:12**, and **SEQ ID NO:14**; ii) one allele coding for a dominant negative VIR protein, such as a VIR protein containing an amino acid sequence selected from the group consisting of **SEQ ID NO:5**, **SEQ ID NO:8**, **SEQ ID NO:10**, **SEQ ID NO:12**, and **SEQ ID NO:14**, and one allele coding for **SEQ ID NO: 4** or a recessive mutation in **SEQ ID NO: 4**; or iii) two alleles coding for a recessive mutation in **SEQ ID NO:4**.

[0104] It will be appreciated that **SEQ ID NOS:4**, **5**, **8**, **10**, **12**, and **14** are representative sequences and that different individual palms may have *VIR* alleles encoding an amino acid sequence having one or more amino acid changes relative to **SEQ ID NOS: 4**, **5**, **8**, **10**, **12**, and **14** due, for example, to natural variation. It will also be appreciated that **SEQ ID NOS: 5**, **8**, **10**, **12**, and **14**, are representative dominant negative mutations and other possible dominant negative mutations are contemplated. For example, mutations that leave the DNA binding domain functionally intact but inactivate one or more interaction or activation domains can be dominant negative. In some cases, mutations in exon 3 of the *VIR* gene (**Figure 5a**, bolded), including but not limited to those that introduce premature stop codons in exon 3 of the *VIR* gene, can be dominant negative.

[0105] In some embodiments, mutations upstream and/or downstream of **SEQ ID NO:2**, including mutations within **SEQ ID NO:1** or mutations upstream and/or downstream of **SEQ ID NO:1** can give rise to dominant negative or recessive negative *VIR* alleles. For example, mutations upstream and/or downstream of **SEQ ID NO:2** can reduce transcription or

translation of *VIR*. In such cases, *virescens* plants contain two copies of such recessive negative *VIR* alleles, or one copy of a recessive allele and one copy of a dominant negative allele.

[0106] One or more polymorphism(s) between *nigrescens* and *virescens VIR* alleles can be used to predict the fruit color phenotype of a palm or other plant, *e.g.*, before the plant is at a developmental stage to produce fruit. For example, when the *virescens* polymorphism is dominant negative (*e.g.*, a diploid plant with one functional and one non-functional allele has the same phenotype as a plant with two non-functional alleles) then:

the presence of only a *virescens VIR* allele indicates that the plant has or will have a *virescens* fruit color phenotype;

the presence of only a *nigrescens VIR* allele indicates that the plant has or will have a *nigrescens* fruit color phenotype; and

the presence of a *nigrescens VIR* allele and a *virescens VIR* allele indicates that the plant has or will have a *virescens* fruit color phenotype.

SEQ ID NOS:6, **7**, **9**, **11**, **13**, and **15** represent coding sequences of various naturally occurring dominant negative *virescens* alleles identified.

[0107] Genomic regions adjacent to the *VIR* gene are also useful to determining whether a palm plant will likely manifest a particular fruit color phenotype. Because of genetic linkage to the *VIR* gene, polymorphisms adjacent to the *VIR* locus are predictive of fruit color phenotype, albeit with reduced accuracy as a function of increased distance from the *VIR* locus. **SEQ ID NO:17** provides an approximately 2 MB genomic region of the palm genome that comprises the *VIR* gene. Single nucleotide polymorphisms within this region can be useful predictors of fruit color phenotype. **Table 3** provides a listing of some SNPs identified within **SEQ ID NO:17**. A small selection of the SNPs in **Table 3** have been genetically mapped relative to the *VIR* locus. **Table 3** also provides an estimated predictive value for each SNP provided based on the selection of markers mapped.

[0108] For example, SNPM02708 and SNPM02400 represent SNPs that are accurate in predicting fruit color phenotype more than 90% of the time. Said another way, using SNPM02708 or SNPM02400 as a genetic marker, one can correctly predict fruit color phenotype of palm plants more than 90 out of 100 times.Thus, even outside of the *VIR* locus on the palm chromosome, polymorphic markers allow for relatively accurate prediction of fruit color phenotype of plants. In some embodiments, the polymorphic marker is within 1,

10, 20, 50, 100, 200, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, or 5000 kb of the *VIR* gene (*e.g.*, the gene corresponding to **SEQ ID NO:1**).

[0109] Accordingly, methods of detecting one or more polymorphic markers within a region of the palm genome corresponding to **SEQ ID NO:17**, or within a region corresponding to **SEQ ID NO: 1** are provided. Such methods are useful for predicting fruit color phenotype of palm plants for example. While specific polymorphisms are provided, it should be appreciated that the polymorphisms provided are merely an example of polymorphisms within the genomic region corresponding to **SEQ ID NO:17** or **SEQ ID NO:1**. Additional polymorphisms can be identified as desired and also be used to predict fruit color phenotype of a palm plant. Such additional polymorphisms are intended to be encompassed in the methods described herein. Moreover, it will be appreciated that **SEQ ID NO:17** and **SEQ ID NO:1** are representative sequences and that different individual palms may have a corresponding genomic region having one or more nucleotide changes relative to **SEQ ID NO:17** or **SEQ ID NO:1** due, for example, to natural variation. As noted elsewhere herein, nevertheless, identifying the region of a genome corresponding to **SEQ ID NO:17** and **SEQ ID NO:1** can be readily performed using alignment programs, sequence similarity searches, *etc*…

[0110] The nucleic acid sequences provided herein were generated by nucleotide sequencing and on occasion, include one or more stretches of "N's." These stretches of N's represent gaps in assembly of sequences of an estimated size. The precise number of N's in a sequence is an estimate (for example, 100 N's may only represent 30 bases). N's can be any base, and are likely repetitive sequence in the genome.

[0111] In some embodiments, fruit color phenotype can be predicted and shell thickness phenotype (*e.g.*, *dura*, *pisifera*, and *tenera*) can be predicted. In some cases, the fruit color and shell thickness phenotypes can be predicted at the same time, *e.g.*, as part of a single-pass sampling, identification, and/or sorting method. In some cases, the fruit color and shell thickness phenotypes can be predicted using the same nucleic acid sample. For example, a nucleic acid sample can be extracted from a portion of a plant or a seed and teated for the presence or absence of a *viriscens* allele or a polymorphism in linkage disequilibrium with a *virscens* or *nigrescens* allele and tested to predict the shell thickness phenotype of the plant or seed. Methods for predicting *SHELL* thickness include, but are not limited to, determining the genotype at the *SHELL* locus, determining the genotype of a polymorphism in linkage disequilibrium with the *SHELL* locus, determining the genotype of a gene that controls the

shell thickness phenotype (*e.g.*, a gene encoding a MADS box protein), or identifying the presence or absence of a polymorphism in linkage disequilibrium with a gene that controls the shell thickness phenotype. Methods, compositions and kits for predicting shell thickness are described, *e.g.*, in PCT Publication No. 2013/142187; U.S. Patent Application No. 61/612,885, filed on March 19, 2012; U.S. Patent Application No. 61/847,853 filed on July 18, 2013; and U.S. Application No. 61/856,433, filed on July 19, 2013, the contents of which are hereby incorporated by reference in their entirety for all purposes.

A. Detection

[0112] Described herein are methods for predicting the the fruit color phenotype an oil palm plant. Exemplary methods include, but are not limited to contacting oil palm plant nucleic acid containing the *VIR* gene with an endonuclease (*e.g.*, *AseI*, or an isoschizomer thereof) that cuts the *nigrescens VIR* allele sequence (**SEQ ID NO:1**) or a portion thereof, but does not cut the dominant *virescens* allele **SEQ ID NO:9** (*VIR* mutation event 2) or a corresponding portion thereof. Exemplary methods further include, but are not limited to contacting oil palm plant nucleic acid containing the *VIR* gene with an endonuclease (*e.g.*, *AluI*, or an isoschizomer thereof) that cleaves the dominant *virescens* allele **SEQ ID NO:11** (*VIR* mutation event 3) or a portion thereof, but does not cleave the *nigrescens VIR* allele **SEQ ID NO:1** or a corresponding portion thereof. Exemplary methods further include, but are not limited to contacting oil palm plant nucleic acid containing the *VIR* gene with an endonuclease (*e.g.*, *AseI*, or an isoschizomer thereof) that cleaves the dominant *virescens* allele **SEQ ID NO:15** (*VIR* mutation event 5) or a portion thereof, but does not cleave the *nigrescens VIR* allele **SEQ ID NO:1** or a corresponding portion thereof. In some cases, the portion thereof in the wild-type sequence or the corresponding portion thereof in the non wild-type sequence is provided as an amplified product (amplicon) or obtained by contacting genomic wild-type or mutated nucleic acid with flanking primers and amplifying.

[0113] Exemplary methods also include contacting a portion of oil palm plant nucleic acid with a first endonuclease (*e.g.*, *AseI*) and a portion of oil palm plant nucleic acid with a second endonuclease (*e.g.*, *AluI*). In some cases, a portion of the oil palm plant nucleic acid is contacted with additional endonucleases (*e.g.*, contacted with 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, or 12 additional endonucleases). The resulting cleavage patterns can be analyzed to determine the presence or absence of one or more *VIR* genotypes and thus predict the fruit color phenotype. In some cases, each endonuclease is contacted with oil palm nucleic acid in a separate reaction mixture. In other cases, two or more endonucleases (*e.g.*, 2, 3, 4, 5, 6, 7,

8, 9, 10, 11, or 12 or more endonucleases) are contacted with oil palm nucleic acid in a single reaction mixture. The oil palm plant nucleic acid can be amplified before contact with endonuclease and/or amplified after contact with endonuclease.

[0114] More generally, methods for predicting the fruit color phenotype of an oil palm plant include contacting nucleic acid containing the *VIR* gene with a protein or oligonucleotide that recognizes the *VIR* gene or a sequence linked to the *VIR* gene and then detecting recognition (*e.g.*, binding or cleavage). The detection reagent (*e.g.*, protein or oligonucleotide) can be specific for one or more naturally occurring *VIR* alleles (*e.g.*, **SEQ ID NOS**:**1**, **2**, **3**, **7**, **9**, **11**, **13**, or **15**). In some cases, the method includes amplifying a *VIR* gene sequence or a sequence linked to the *VIR* gene, or a portion of the gene or linked sequence, and detecting the amplification. In some embodiments, the method includes a combination of contacting with a detection reagent and amplification. For example, nucleic acid containing, or linked to, the *VIR* gene, or a portion thereof, can be amplified, and an oligonucleotide or protein detection reagent (*e.g.*, a restriction enzyme such as *Ase I*, or *Alu I*, or an isoschizomer thereof) can be contacted with the amplified nucleic acid. In some cases, further amplification can then be performed. Alternatively, the protein detection reagent can be contacted with nucleic acid containing or linked to the *VIR* gene, or a portion thereof, then amplified. In some embodiments, alleles, or portions thereof, that are recognized by the detection reagent (*e.g.*, protein or oligonucleotide) are amplified, whereas alleles or portions thereof that are not recognized (*e.g.*, not bound to or cleaved) are not amplified. In other embodiments, alleles that are not recognized by the detection reagent, or portions thereof, are amplified and recognized by the detection agent (*e.g.*, bound to or cleaved) alleles, or portions thereof, are not amplified.

[0115] In some embodiments, the methods include amplifying oil palm plant nucleic acid and contacting the amplified nucleic acid with a detection reagent (*e.g.*, an oligonucleotide or a protein). The presence or activity of the detection reagent (*e.g.*, binding or cleavage) can then be assayed as described herein. Alternatively, the nucleic acid can be contacted with the detection reagent, and then amplification can be performed. In some cases, *VIR* alleles that are not recognized by the detection reagent can be amplified while *VIR* alleles that are recognized by the detection reagent are not substantially amplified or are not amplified. In some cases, *VIR* alleles that are recognized by the detection reagent can be amplified while *VIR* alleles that are not recognized by the detection reagent are not substantially amplified or are not amplified.

1. Endonuclease Detection

[0116] In some embodiments, contacting the oil palm nucleic acid (or an amplified portion thereof comprising at least a portion of the *VIR* gene, or a sequence linked to the *VIR* gene) with a detection reagent includes contacting the oil palm nucleic acid with an endonuclease that specifically recognizes one or more *VIR* alleles under conditions that allow for sequence specific cleavage of the one or more recognized alleles. Such conditions will be dependent on the endonuclease employed, but generally include an aqueous buffer, salt (*e.g.*, NaCl), and a divalent cation (*e.g.*, Mg^{2+}, Ca^{2+}, *etc.*). The cleavage can be performed at any temperature at which the endonuclease is active, *e.g.*, at least about 5, 7.5, 10, 15, 20, 25, 30, 35, 37, 40, 42, 45, 50, 55, or 65°C. The cleavage can be performed for any length of time such as about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 17, 20, 25, 30, 35, 40, 45, 50, 60, 70, 90, 100, 120 minutes; about 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 20 hours, or about 1, 2, 3, or 4 days. In some cases, the oil palm nucleic acid, or a portion thereof (*e.g.*, the *VIR* locus, a portion thereof, or sequence linked to the *VIR* locus) is amplified and then contacted with an endonuclease. Alternatively, the oil palm nucleic acid, or a portion thereof (*e.g.*, the *VIR* locus, a portion thereof, or sequence linked to the *VIR* locus) is contacted with an endonuclease and then amplified.

[0117] In some cases, cleavage of the nucleic acid prevents substantial amplification; therefore, lack of amplification indicates successful cleavage and thus presence of the allele or alleles recognized by the endonuclease detection reagent. For example, in some cases, amplification can require a primer pair and cleavage can disrupt the sequence of template nucleotides between the primer pair. Thus, in this case, a cleaved sequence will not be amplified, while the uncleaved sequence will be amplified. As another example, cleavage can disrupt a primer binding site thus preventing amplification of the cleaved sequence and allowing amplification of the uncleaved sequence.

[0118] Cleavage can be complete (*e.g.*, all, substantially all, or greater than 50% of the *VIR* locus is cleaved or cleavable) or partial (*e.g.*, less than 50% of the *VIR* locus is cleaved or cleavable). In some cases, complete cleavage can indicate the presence of a recognized *VIR* allele and the absence of *VIR* alleles that are not recognized. For example, complete cleavage can indicate that the plant is homozygous for an allele that is recognized by the detection reagent. Similarly, partial cleavage can indicate the presence of both a recognized *VIR* allele and a *VIR* allele that is not recognized. For example, partial cleavage can indicate

heterozygosity at the *VIR* locus or heterozygosity at a genomic position linked to the *VIR* locus.

[0119] In some embodiments, two or more endonucleases with differing specificities for one or more *VIR* alleles are contacted with oil palm nucleic acid. In some cases, the oil palm nucleic acid is, optionally amplified, divided into separate reactions, optionally amplified, and each of the two or more endonucleases added to a separate reaction. One or more control reactions that include, *e.g.*, no endonuclease, no nucleic acid, no amplification, or control nucleic acid can also be included.

[0120] After contact with an endonuclease that recognizes one or more alleles but does not recognize one or more other alleles, cleavage can then be detected. Detection of complete cleavage indicates the presence of the allele(s) recognized by the endonuclease. Detection of partial cleavage in the reaction indicates that the nucleic acid is heterozygous for a recognized allele and an allele that is not recognized. Detection of no cleavage in the reaction indicates the absence of the one or more alleles recognized by the endonuclease. Thus, the genotypes and their corresponding fruit color phenotypes (*nigrescens* and *virescens* respectively) can be predicted based on comparing the cleavage pattern of the one or more endonuclease reactions.

[0121] Cleavage can be detected by assaying for a change in the relative sizes of oil palm nucleic acid or a portion thereof (*e.g.*, the *VIR* locus, a portion thereof, or a sequence linked to the *VIR* locus). For example, oil palm nucleic acid or a portion thereof (*e.g.*, the *VIR* locus, a portion thereof, or a sequence linked to the *VIR* locus) can be contacted with one or more endonucleases in a reaction mixture, optionally amplified, the reaction mixture loaded onto an agarose or acrylamide gel, electrophoresed, and the relative sizes of the nucleic acids visualized or otherwise detected. The electrophoresis can be slab gel electrophoresis or capillary electrophoresis. Cleavage can also be detected by assaying for successful amplification of the oil palm nucleic acid or a portion thereof (*e.g.*, the *VIR* locus, a portion thereof, or a sequence linked to the *VIR* locus). For example, oil palm nucleic acid or a portion thereof (*e.g.*, the *VIR* locus, a portion thereof, or a sequence linked to the *VIR* locus) can be contacted with one or more endonucleases in a reaction mixture, amplified, the reaction mixture loaded onto an agarose or acrylamide gel, electrophoresed, and the presence or absence of one or more amplicons, or the relative sizes of amplicons visualized or otherwise detected.

[0122] Detection of cleavage products can be quantitative or semi-quantitative. For example, visualization or other detection can include detection of fluorescent dyes intercalated into double stranded DNA. In such cases, the fluorescent signal is proportional to both the size of the fluorescent DNA molecule and the molar quantity. Thus, after correction for the size of the DNA molecule, the relative molar quantities of cleavage products can be compared. In some cases, quantitative detection provides discrimination between partial and complete cleavage or discrimination between a plant that is homozygous at the *VIR* locus or heterozygous at the *VIR* locus.

2. Oligonucleotide Detection

[0123] In other embodiments, contacting the oil palm nucleic acid with a detection reagent includes contacting the oil palm nucleic acid or a portion thereof (*e.g.*, the *VIR* locus, a portion thereof, or a sequence linked to the *VIR* locus) with an oligonucleotide specific for one or more *VIR* alleles under conditions which allow for specific hybridization to one or more of the one or more *VIR* alleles or specific cleavage of one or more of the one or more *VIR* alleles. Such conditions can include stringent conditions as described herein. Such conditions can also include conditions that allow specific priming of polymerization by the hybridized oligonucleotide at the *VIR* locus or at a sequence linked to the *VIR* locus. Detection of hybridization, cleavage, or polymerization can then indicate the presence of the one or more *VIR* alleles that the oligonucleotide is specific for. Hybridization can be detected by assaying for the presence of the oligonucleotide, the presence of a label linked to the oligonucleotide, or assaying for polymerization of the oligonucleotide. Polymerization of the oligonucleotide can be detected by assaying for amplification as described herein. Polymerization of the oligonucleotide can also be detected by assaying for the incorporation of a detectable label during the polymerization process.

[0124] In some embodiments, one or more *VIR* allles can be detected by annealing one or more primers to template nucleic acid, extending the one or more primers, and then detecting incorporation of one or more nucleotides. For example, a primer extension assay can be performed. Primer extension is a two-step process that first involves the hybridization of a probe to the bases immediately upstream of a nucleotide polymorphism, such as the polymorphisms that give rise to the *nigrescens* or *virescens* phenotypes, followed by a 'mini-sequencing' reaction, in which DNA polymerase extends the hybridized primer by adding one or more bases that are complementary to one or more of the polymorphic sequences. At each position, incorporated bases are detected and the identity of the allele is determined.

Because primer extension is based on the highly accurate DNA polymerase enzyme, the method is generally very reliable. Primer extension is able to genotype most polymorphisms under very similar reaction conditions making it also highly flexible. The primer extension method is used in a number of assay formats. These formats use a wide range of detection techniques that include fluorescence, chemiluminescence, directly sensing the ions produced by template-directed DNA polymerase synthesis, MALDI-TOF Mass spectrometry and ELISA-like methods.

[0125] Primer extension reactions can, *e.g.*, be performed with either fluorescently labeled dideoxynucleotides (ddNTP) or fluorescently labeled deoxynucleotides (dNTP). With ddNTPs, probes hybridize to the target DNA immediately upstream of polymorphism, and a single, ddNTP complementary to at least one of alleles is added to the 3' end of the probe (the missing 3'-hydroxyl in didioxynucleotide prevents further nucleotides from being added). Each ddNTP is labeled with a different fluorescent signal allowing for the detection of all four possible single nucleotide variations in the same reaction. The reaction can be performed in a multiplex reaction (for simultaneous detection of multiple polymorphisms) by using primers of different lengths and detecting fluorescent signal and length. With dNTPs, allele-specific probes have 3' bases which are complementary to each of the possible nucleotides to be detected. If the target DNA contains a nucleotide complementary to the probe's 3' base, the target DNA will completely hybridize to the probe, allowing DNA polymerase to extend from the 3' end of the probe. This is detected by the incorporation of the fluorescently labeled dNTPs onto the end of the probe. If the target DNA does not contain a nucleotide complementary to the probe's 3' base, the target DNA will produce a mismatch at the 3' end of the probe and DNA polymerase will not be able to extend from the 3' end of the probe. In this case, several labeled dNTPs may get incorporated into the growing strand, allowing for increased signal. Exemplary primer extension methods and compositions include the SNaPshot method. Primer extension reactions can also be performed using a mass spectrometer. The extension reaction can use ddNTPs as above, but the detection of the allele is dependent on the actual mass of the extension product and not on a fluorescent molecule.

[0126] In some cases, two or more oligonucleotides with differing specificities for one or more *VIR* alleles are contacted with oil palm nucleic acid or a portion thereof (*e.g.*, the *VIR* locus, a portion thereof, or a sequence linked to the *VIR* locus). In some cases, the two or more oligonucleotides are differentially labeled. In such cases, the contacting can be

performed in a single reaction, and hybridization can be differentially detected. Alternatively, the two or more oligonucleotides can be contacted with oil palm nucleic acid that has been separated into two or more reactions, such that each reaction can be contacted with a different oligonucleotide. As yet another alternative, the two or more oligonucleotides can be hybridized to oil palm nucleic in a single reaction, polymerization or amplification performed at the *VIR* locus, or a sequence linked to the *VIR* locus, and amplification or polymerization of the template nucleic acid can be differentially detected. For example, one or more of the oligonucleotides can be blocking oligonucleotides such that amplification does not substantially occur when the oligonucleotide is bound. As another example, the two or more oligonucleotides can contain a fluorophore and a quencher, such that amplification of the specifically bound oligonucleotide degrades the oligonucleotide and provides an increase in fluorescent signal. As yet another example, polymerization or amplification can provide polymerization/amplification products of a size that is allele specific. In some cases, one or more control reactions are also included, such as a no-oligonucleotide control, or a positive control containing one or more *VIR* allele nucleic acid(s).

[0127] For example, an oligonucleotide specific for the a *nigrescens VIR* allele, and an oligonucleotide specific for a *virescens* allele can be contacted with oil palm nucleic acid under stringent conditions. Unbound oligonucleotide and/or nucleic acid can then be washed away. Hybridization can then be detected. Hybridization of only the first oligonucleotide would indicate the presence of the *nigrescens* allele, and thus predict a *nigrescens* phenotype. Hybridization of one or more oligonucleotides specific for a dominant *virescens VIR* allele would predict a *virescens* phenotype. Hybridization of an oligonucleotide specific for a recessive *virescens VIR* allele and an oligonucleotide specific for the *nigrescens VIR* allele would predict a *nigrescens* phenotype. Hybridization of an oligonucleotide specific for a recessive *virescens VIR* allele but not an oligonucleotide specific for the *nigrescens VIR* allele would predict a *virescens* phenotype.

[0128] As another example, oil palm nucleic acid can be contacted with three oligonucleotides in three different reaction mixtures. The first oligonucleotide can be capable of specifically hybridizing to the wild-type or *nigrescens* allele (*e.g.*, **SEQ ID NO:1**). The second oligonucleotide can be capable of specifically hybridizing to a dominant *virescens* allele. The third oligonucleotide can be capable of specifically hybridizing to a different dominant *virescens* allele. Additional allele specific oligonucleotides can optionally be utilized. The reaction mixtures can optionally contain another oligonucleotide that

specifically hybridizes to the a sequence in the oil palm genome and in combination with any of the first, second, third or more oligonucleotide primers flanks a region, *e.g.*, about 10, 25, 50, 100, 150, 200, 250, 300, 350, 500, 600, 750, 1000, 2000, 5000, 7500, 10000 or more continuous nucleotides, of the oil palm genome at or near the *VIR* locus. The allele specific oligonucleotides can then be polymerized and the presence or absence of polymerization product detected. For example, PCR can be performed. In some cases, the presence or absence of polymerization product is detected by detection of amplification. In some cases, the presence or absence of polymerization product is detected by detection of a label incorporated during the polymerization.

[0129] Differential detection of a polymerization product of each allele specific oligonucleotide would indicate the presence of the corresponding *VIR* allele. Thus, *VIR* genotypes can be detected and the resulting phenotypes predicted. In some cases, the polymerization and/or detection can be quantitative or semi-quantitative such that homozygous and heterozygous plants can be distinguished.

[0130] As some allele-specific differences in the *VIR* gene are SNPs, methods useful for SNP detection can also be used to detect the *VIR* alleles. The amount and/or presence of an allele of a SNP in a sample from an individual can be determined using many detection methods that are well known in the art. A number of SNP assay formats entail one of several general protocols: hybridization using allele-specific oligonucleotides, primer extension, allele-specific ligation, sequencing, or electrophoretic separation techniques, *e.g.*, singled-stranded conformational polymorphism (SSCP) and heteroduplex analysis. Exemplary assays include 5' nuclease assays, template-directed dye-terminator incorporation, molecular beacon allele-specific oligonucleotide assays, single-base extension assays, and SNP scoring by real-time pyrophosphate sequences. Analysis of amplified sequences can be performed using various technologies such as microchips, fluorescence polarization assays, and matrix-assisted laser desorption ionization (MALDI) mass spectrometry. Two methods that can also be used are assays based on invasive cleavage with Flap nucleases and methodologies employing padlock probes.

[0131] Determining the presence or absence of a particular SNP allele is generally performed by analyzing a nucleic acid sample that is obtained from a biological sample from the individual to be analyzed. While the amount and/or presence of a SNP allele can be directly measured using RNA from the sample, often times the RNA in a sample will be

reverse transcribed, optionally amplified, and then the SNP allele will be detected in the resulting cDNA.

[0132] Frequently used methodologies for analysis of nucleic acid samples to measure the amount and/or presence of an allele of a SNP are briefly described. However, any method known in the art can be used in the invention to measure the amount and/or presence of single nucleotide polymorphisms.

3. Allele Specific Hybridization

[0133] This technique, also commonly referred to as allele specific oligonucleotide hybridization (ASO) (*e.g.*, Stoneking *et al.*, *Am. J. Hum. Genet.* 48:70–382, 1991; Saiki *et al.*, *Nature* 324, 163-166, 1986; EP 235,726; and WO 89/11548), relies on distinguishing between two DNA molecules differing by one base by hybridizing an oligonucleotide probe that is specific for one of the variants to an amplified product obtained from amplifying the nucleic acid sample. In some embodiments, this method employs short oligonucleotides, *e.g.*, 15-20 bases in length. The probes are designed to differentially hybridize to one variant versus another. Principles and guidance for designing such probe is available in the art, *e.g.*, in the references cited herein. Hybridization conditions should be sufficiently stringent that there is a significant difference in hybridization intensity between alleles, and preferably an essentially binary response, whereby a probe hybridizes to only one of the alleles. Some probes are designed to hybridize to a segment of target DNA or cDNA such that the polymorphic site aligns with a central position (*e.g.*, within 4 bases of the center of the oligonucleotide, for example, in a 15-base oligonucleotide at the 7 position; in a 16-based oligonucleotide at either the 8 or 9 position) of the probe (*e.g.*, a polynucleotide of the invention distinguishes between two SNP alleles as set forth herein), but this design is not required.

[0134] The amount and/or presence of an allele is determined by measuring the amount of allele-specific oligonucleotide that is hybridized to the sample. Typically, the oligonucleotide is labeled with a label such as a fluorescent label. For example, an allele-specific oligonucleotide is applied to immobilized oligonucleotides representing potential SNP sequences. After stringent hybridization and washing conditions, fluorescence intensity is measured for each SNP oligonucleotide.

[0135] In one embodiment, the nucleotide present at the polymorphic site is identified by hybridization under sequence-specific hybridization conditions with an oligonucleotide probe exactly complementary to one of the polymorphic alleles in a region encompassing the

polymorphic site. The probe hybridizing sequence and sequence-specific hybridization conditions are selected such that a single mismatch at the polymorphic site destabilizes the hybridization duplex sufficiently so that it is effectively not formed. Thus, under sequence-specific hybridization conditions, stable duplexes will form only between the probe and the exactly complementary allelic sequence. Thus, oligonucleotides from about 10 to about 35 nucleotides in length, *e.g.*, from about 15 to about 35 nucleotides in length, which are exactly complementary to an allele sequence in a region which encompasses the polymorphic site (*e.g.*, the polymorphisms outlined in **SEQ ID NOS:7**, **9**, **11**, **13**, **15**, **21**, **22**, **23**, or **24**) are within the scope of the invention.

[0136] In an alternative embodiment, the amount and/or presence of the nucleotide at the polymorphic site is identified by hybridization under sufficiently stringent hybridization conditions with an oligonucleotide substantially complementary to one of the SNP alleles in a region encompassing the polymorphic site, and exactly complementary to the allele at the polymorphic site. Because mismatches that occur at non-polymorphic sites are mismatches with both allele sequences, the difference in the number of mismatches in a duplex formed with the target allele sequence and in a duplex formed with the corresponding non-target allele sequence is the same as when an oligonucleotide exactly complementary to the target allele sequence is used. In this embodiment, the hybridization conditions are relaxed sufficiently to allow the formation of stable duplexes with the target sequence, while maintaining sufficient stringency to preclude the formation of stable duplexes with non-target sequences. Under such sufficiently stringent hybridization conditions, stable duplexes will form only between the probe and the target allele. Thus, oligonucleotides from about 10 to about 35 nucleotides in length, preferably from about 15 to about 35 nucleotides in length, which are substantially complementary to an allele sequence in a region which encompasses the polymorphic site, and are exactly complementary to the allele sequence at the polymorphic site, are within the scope of the invention.

[0137] The use of substantially, rather than exactly, complementary oligonucleotides may be desirable in assay formats in which optimization of hybridization conditions is limited. For example, in a typical multi-target immobilized-probe assay format, probes for each target are immobilized on a single solid support. Hybridizations are carried out simultaneously by contacting the solid support with a solution containing target DNA or cDNA. As all hybridizations are carried out under identical conditions, the hybridization conditions cannot be separately optimized for each probe. The incorporation of mismatches into a probe can be

used to adjust duplex stability when the assay format precludes adjusting the hybridization conditions. The effect of a particular introduced mismatch on duplex stability is well known, and the duplex stability can be routinely both estimated and empirically determined, as described above. Suitable hybridization conditions, which depend on the exact size and sequence of the probe, can be selected empirically using the guidance provided herein and well known in the art. The use of oligonucleotide probes to detect single base pair differences in sequence is described in, for example, Conner *et al.,* 1983, *Proc. Natl. Acad. Sci. USA* 80:278-282, and U.S. Pat. Nos. 5,468,613 and 5,604,099, each incorporated herein by reference.

[0138] The proportional change in stability between a perfectly matched and a single-base mismatched hybridization duplex depends on the length of the hybridized oligonucleotides. Duplexes formed with shorter probe sequences are destabilized proportionally more by the presence of a mismatch. In practice, oligonucleotides between about 15 and about 35 nucleotides in length are preferred for sequence-specific detection. Furthermore, because the ends of a hybridized oligonucleotide undergo continuous random dissociation and re-annealing due to thermal energy, a mismatch at either end destabilizes the hybridization duplex less than a mismatch occurring internally. Preferably, for discrimination of a single base pair change in target sequence, the probe sequence is selected which hybridizes to the target sequence such that the polymorphic site occurs in the interior region of the probe.

[0139] The above criteria for selecting a probe sequence that hybridizes to a particular SNP apply to the hybridizing region of the probe, *i.e.*, that part of the probe which is involved in hybridization with the target sequence. A probe may be bound to an additional nucleic acid sequence, such as a poly-T tail used to immobilize the probe, without significantly altering the hybridization characteristics of the probe. One of skill in the art will recognize that for use in the present methods, a probe bound to an additional nucleic acid sequence which is not complementary to the target sequence and, thus, is not involved in the hybridization, is essentially equivalent to the unbound probe.

[0140] Suitable assay formats for detecting hybrids formed between probes and target nucleic acid sequences in a sample are known in the art and include the immobilized target (dot-blot) format and immobilized probe (reverse dot-blot or line-blot) assay formats. Dot blot and reverse dot blot assay formats are described in U.S. Pat. Nos. 5,310,893; 5,451,512; 5,468,613; and 5,604,099; each incorporated herein by reference.

[0141] In a dot-blot format, amplified target DNA or cDNA is immobilized on a solid support, such as a nylon membrane. The membrane-target complex is incubated with labeled probe under suitable hybridization conditions, unhybridized probe is removed by washing under suitably stringent conditions, and the membrane is monitored for the presence of bound probe.

[0142] In the reverse dot-blot (or line-blot) format, the probes are immobilized on a solid support, such as a nylon membrane or a microtiter plate. The target DNA or cDNA is labeled, typically during amplification by the incorporation of labeled primers. One or both of the primers can be labeled. The membrane-probe complex is incubated with the labeled amplified target DNA or cDNA under suitable hybridization conditions, unhybridized target DNA or cDNA is removed by washing under suitably stringent conditions, and the membrane is monitored for the presence of bound target DNA or cDNA.

[0143] An allele-specific probe that is specific for one of the polymorphism variants is often used in conjunction with the allele-specific probe for the other polymorphism variant. In some embodiments, the probes are immobilized on a solid support and the target sequence in an individual is analyzed using both probes simultaneously. Examples of nucleic acid arrays are described by WO 95/11995. The same array or a different array can be used for analysis of characterized polymorphisms. WO 95/11995 also describes sub-arrays that are optimized for detection of variant forms of a pre-characterized polymorphism.

[0144] In some embodiments, allele-specific oligonucleotide probes can be utilized in a branched DNA assay to differentially detect *VIR* alleles. For example, allele-specific oligonucleotide probes can be used as capture extender probes that hybridize to a capture probe and *VIR* in an allele specific manner. Label extenders can then be utilized to hybridize to *VIR* in a non allele-specific manner and to an amplifier (*e.g.*, alkaline phosphatase). In some cases, a pre-amplifier molecule can further increase signal by binding to the label extender and a plurality of amplifiers. As another example, non allele-specific capture extender probes can be used to capture *VIR*, and allele-specific label extenders can be used to differentially detect *VIR* alleles. In some cases, the capture extender probes and/or label extenders hybridize to allele specific *VIR* cleavage sites (*e.g.*, hybridize to an *AseI*, or *AluI* site). In some cases, the probes do not hybridize to *VIR* DNA that has been cleaved with an allele specific endonuclease (*e.g.*, *AseI*, or *AluI*, or an isoschizomer thereof).

4. Allele-Specific Primers

[0145] The amount and/or presence of an allele is also commonly detected using allele-specific amplification or primer extension methods. These reactions typically involve use of primers that are designed to specifically target a polymorphism via a mismatch at the 3' end of a primer. The presence of a mismatch affects the ability of a polymerase to extend a primer when the polymerase lacks error-correcting activity. For example, to detect an allele sequence using an allele-specific amplification- or extension-based method, a primer complementary to the polymorphic nucleotide of a SNP is designed such that the 3' terminal nucleotide hybridizes at the polymorphic position. The presence of the particular allele can be determined by the ability of the primer to initiate extension. If the 3' terminus is mismatched, the extension is impeded. If a primer matches the polymorphic nucleotide at the 3' end, the primer will be efficiently extended.

[0146] The primer can be used in conjunction with a second primer in an amplification reaction. The second primer hybridizes at a site unrelated to the polymorphic position. Amplification proceeds from the two primers leading to a detectable product signifying the particular allelic form is present. Allele-specific amplification- or extension-based methods are described in, for example, WO 93/22456; U.S. Pat. Nos. 5,137,806; 5,595,890; 5,639,611; and U.S. Pat. No. 4,851,331.

[0147] Using allele-specific amplification-based methods, identification and/or quantification of the alleles require detection of the presence or absence of amplified target sequences. Methods for the detection of amplified target sequences are well known in the art. For example, gel electrophoresis and probe hybridization assays described are often used to detect the presence of nucleic acids.

[0148] In an alternative probe-less method, the amplified nucleic acid is detected by monitoring the increase in the total amount of double-stranded DNA in the reaction mixture, is described, *e.g.*, in U.S. Pat. No. 5,994,056; and European Patent Publication Nos. 487,218 and 512,334. The detection of double-stranded target DNA or cDNA relies on the increased fluorescence various DNA-binding dyes, *e.g.*, SYBR Green, exhibit when bound to double-stranded DNA.

[0149] Allele-specific amplification methods can be performed in reactions that employ multiple allele-specific primers to target particular alleles. Primers for such multiplex applications are generally labeled with distinguishable labels or are selected such that the amplification products produced from the alleles are distinguishable by size. Thus, for

example, both alleles in a single sample can be identified and/or quantified using a single amplification by various methods.

[0150] As in the case of allele-specific probes, an allele-specific oligonucleotide primer may be exactly complementary to one of the polymorphic alleles in the hybridizing region or may have some mismatches at positions other than the 3' terminus of the oligonucleotide, which mismatches occur at non-polymorphic sites in both allele sequences.

5. Amplification

[0151] Amplification includes any method in which nucleic acid is reproduced, copied, or amplified. In some cases, the amplification produces a copy of the template nucleic acid. In other cases, the amplification produces a copy of a portion of the template nucleic acid (*e.g.*, a copy of the *VIR* locus, a portion thereof, or a sequence linked to the *VIR* locus). Amplification methods include the polymerase chain reaction (PCR), the ligase chain reaction (LCR), self-sustained sequence replication (3SR), the transcription based amplification system (TAS), nucleic acid sequence-based amplification (NASBA), strand displacement amplification (SDA), rolling circle amplification (RCA), hyper-branched RCA (HRCA), helicase-dependent DNA amplification (HDA), single primer isothermal amplification, signal-mediated amplification of RNA technology (SMART), loop-mediated isothermal amplification (LAMP), isothermal multiple displacement amplification (IMDA), and circular helicase-dependent amplification (cHDA). The amplification reaction can be isothermal, or can require thermal cycling. Isothermal amplification methods, include but are not limited to, TAS, NASBA, 3SR, SMART, SDA, RCA, LAMP, IMDA, HDA, SPIA, and cHDA. Methods and compositions for isothermal amplification are provided in, *e.g.*, Gill and Ghaemi, *Nucleosides, Nucleotides, and Nucleic Acids*, 27: 224-43 (2008).

[0152] Loop-mediated isothermal amplification (LAMP) is described in, *e.g.*, Notomi, *et al*., *Nucleic Acids Research*, 28(12), e63 i-vii, (2000). The method produces large amounts of amplified DNA in a short period of time. In some cases, successful LAMP amplification can produce pyrophosphate ions in sufficient amount to alter the turbidity, or color of the reaction solution. Thus, amplification can be assayed by observing an increase in turbidity, or a change in the color of the sample. Alternatively, amplified DNA can be observed using any amplification detection method including detecting intercalation of a fluorescent dye and/or gel or capillary electrophoresis.

[0153] In some cases, the loop-mediated isothermal amplification (LAMP) is performed with four primers or three or more sets of four primers for amplification of the *VIR* gene, a

portion thereof, or a sequence linked to the *VIR* gene, including a forward inner primer, a forward outer primer, a backward inner primer, and a backward outer primer. In some cases, one, two, or more additional primers can be used to identify multiple regions or alleles in the same reaction. In some cases, LAMP can be performed with one or more of the following primer sets: a set of wild-type *VIR* specific primers; a set of primers specific for *VIR* mutant #1 (*e.g.*, specific for **SEQ ID NO:7**, or a portion thereof); a set of primers specific for *VIR* mutant #2 (*e.g.*, specific for **SEQ ID NO:9**, or a portion thereof); a set of primers specific for *VIR* mutant #3 (*e.g.*, specific for **SEQ ID NO:11**, or a portion thereof); a set of primers specific for *VIR* mutant #4 (*e.g.*, specific for **SEQ ID NO:13**); and/or a a set of primers specific for *VIR* mutant #5 (*e.g.*, specific for **SEQ ID NO:15**, or a portion thereof). In some cases, the oil palm plant DNA is analyzed in two or more separate reaction mixtures. For example, one reaction mixture can be used to amplify wild-type *VIR* containing oil palm plant nucleic acid, and a second reaction mixture to amplify oil palm plant nucleic acid that contains known dominant *VIR* mutants (*e.g.*, contains any one of **SEQ ID NOS:7**, **9**, **11**, **13**, or **15**, or a portion thereof).

[0154] Amplification detection can include end-point detection or real-time detection. End-point detection can include agarose or acrylamide gel electrophoresis and visualization. For example, amplification can be performed on template nucleic acid that has been contacted with one or more detection reagents (*e.g.*, one or more endonucleases), and then the reaction mixture (or a portion thereof) can be loaded onto an acrylamide or agarose gel, electrophoresed, and the relative sizes of amplicons or the presence or absence of amplicons detected. Alternatively, amplification can be performed, amplicons contacted with one or more detection reagents (*e.g.*, one or more endonucleases), and then the reaction mixture (or a portion thereof) can be loaded onto an acrylamide or agarose gel, electrophoresed, and the relative sizes of amplicons or the presence or absence of amplicons detected. Electrophoresis can include slab gel electrophoresis and capillary electrophoresis.

[0155] Real-time detection of amplification can include detection of the incorporation of intercalating dyes into accumulating amplicons, detection of fluorogenic nuclease activity, or detection of structured probes. The use of intercalating dyes utilizes fluorogenic compounds that only bind to double stranded DNA. In this type of approach, amplification product (which in some cases is double stranded) binds dye molecules in solution to form a complex. With the appropriate dyes, it is possible to distinguish between dye molecules remaining free in solution and dye molecules bound to amplification product. For example, certain dyes

fluoresce efficiently only when bound to double stranded DNA, such as amplification product. Examples of such dyes include, but are not limited to, SYBR Green and Pico Green (from Molecular Probes, Inc., Eugene, OR), ethidium bromide, propidium iodide, chromomycin, acridine orange, Hoechst 33258, TOTO-I, YOYO- 1, and DAPI (4',6-diamidino-2-phenylindole hydrochloride). Additional discussion regarding the use of intercalation dyes is provided, *e.g.*, by Zhu et al., *Anal. Chem.* 66:1941-1948 (1994).

[0156] Fluorogenic nuclease assays are another example of a product quantification method that can be used successfully with the devices and methods described herein. The basis for this method of monitoring the formation of amplification product is to measure PCR product accumulation using a dual-labeled fluorogenic oligonucleotide probe, an approach frequently referred to in the literature as the "TaqMan" method.

[0157] The probe used in such assays can be a short (*e.g.*, approximately 20-25 bases in length) polynucleotide that is labeled with two different fluorescent dyes. In some cases, the 5' terminus of the probe can be attached to a reporter dye and the 3' terminus attached to a quenching moiety. In other cases, the dyes can be attached at other locations on the probe. The probe can be designed to have at least substantial sequence complementarity with the probe-binding site on the target nucleic acid. Upstream and downstream PCR primers that bind to regions that flank the probe binding site can also be included in the reaction mixture. When the fluorogenic probe is intact, energy transfer between the fluorophore and quencher moiety occurs and quenches emission from the fluorophore. During the extension phase of PCR, the probe is cleaved, *e.g.*, by the 5' nuclease activity of a nucleic acid polymerase such as Taq polymerase, or by a separately provided nuclease activity that cleaves bound probe, thereby separating the fluorophore and quencher moieties. This results in an increase of reporter emission intensity that can be measured by an appropriate detector. Additional details regarding fluorogenic methods for detecting PCR products are described, for example, in U.S. Pat. No. 5,210,015 to Gelfand, U.S. Pat. No. 5,538,848 to Livak, et al, and U.S. Pat. No. 5,863,736 to Haaland, each of which is incorporated by reference in its entirety, as well as Heid, C. A., et al., *Genome Research*, 6:986-994 (1996); Gibson, U. E. M, *et al., Genome Research* 6:995-1001 (1996); Holland, P. M., *et al., Proc. Natl. Acad. Sci. USA* 4 88:7276-7280, (1991); and Livak, K. J., *et al., PCR Methods and Applications* 357-362 (1995).

[0158] Structured probes (*e.g.*, "molecular beacons") provide another method of detecting accumulated amplification product. With molecular beacons, a change in conformation of the probe as it hybridizes to a complementary region of the amplified product results in the

formation of a detectable signal. In addition to the target-specific portion, the probe includes additional sections, generally one section at the 5' end and another section at the 3' end, that are complementary to each other. One end section is typically attached to a reporter dye and the other end section is usually attached to a quencher dye. In solution, the two end sections can hybridize with each other to form a stem loop structure. In this conformation, the reporter dye and quencher are in sufficiently close proximity that fluorescence from the reporter dye is effectively quenched by the quencher. Hybridized probe, in contrast, results in a linearized conformation in which the extent of quenching is decreased. Thus, by monitoring emission changes for the reporter dye, it is possible to indirectly monitor the formation of amplification product. Probes of this type and methods of their use is described further, for example, by Piatek, A. S., *et al.*, *Nat. Biotechnol.* 16:359-63 (1998); Tyagi, S. and Kramer, F. R., *Nat. Biotechnol.* 14:303-308 (1996); and Tyagi, S. *et al.*, *Nat. Biotechnol.* 16:49-53 (1998).

[0159] Detection of amplicons can be quantitative or semi-quantitative whether performed as a real-time analysis or as an end-point analysis. In general, the detection signal (*e.g.*, fluorescence) is proportional to the molar quantity of the amplicon. Thus, the relative molar quantities of amplicons can be compared. In some cases, quantitative detection provides discrimination between a plant that is homozygous at the *VIR* locus or heterozygous at the *VIR* locus.

[0160] As described herein, hybridization, cleavage, and amplification methods can be combined. For example, oil palm plant nucleic acid can be hybridized to one or more oligonucleotides, cleaved and then amplified. Alternatively, oil palm plant nucleic acid can be amplified, cleaved, and then amplified again, or the cleavage products detected by hybridization with an oligonucleotide detection reagent.

[0161] In certain embodiments, polymorphic markers are detected by sequencing technologies. Obtaining sequence information about an individual plant identifies particular nucleotides in the context of a sequence. For SNPs, sequence information about a single unique sequence site is sufficient to identify alleles at that particular SNP. For markers comprising more than one nucleotide, sequence information about the nucleotides of the individual that contain the polymorphic site identifies the alleles of the individual for the particular site.

[0162] Various methods for obtaining nucleic acid sequence are known to the skilled person, and all such methods are useful for practicing the invention. Sanger sequencing is a

well-known method for generating nucleic acid sequence information. Recent methods for obtaining large amounts of sequence data have been developed, and such methods are also contemplated to be useful for obtaining sequence information of a plant, if desired. These include pyrosequencing technology (Ronaghi, M. *et al. Anal Biochem* 267:65-71 (1999); Ronaghi, *et al., Biotechniques* 25:876-878 (1998)), *e.g.* 454 pyrosequencing (Nyren, P., *et al. Anal Biochem* 208:171-175 (1993)), Illumina/Solexa sequencing technology (available one the world wide web at illumina.com; see also Strausberg, R L, *et al. Drug Disc Today* 13:569-577 (2008)), and Supported Oligonucleotide Ligation and Detection Platform (SOLiD) technology (Applied Biosystems, available on the world wide web at appliedbiosystems.com); Strausberg, R L, *et al. Drug Disc Today* 13:569-577 (2008).

B. Sampling and Sorting

[0163] Oil palm nucleic acid can be obtained from any suitable tissue of an oil palm plant. For example, oil palm nucleic acid can be obtained from a leaf, a stem, a root or a seed. In some cases, the oil palm nucleic acid is obtained from endosperm tissue of a seed. In some cases, the oil palm nucleic acid is obtained in such a manner that the oil palm plant or seed is not reduced in viability or is not substantially reduced in viability. For example, in some cases, sample extraction can reduce the number of viable plants or seeds in a population by less than about 20%, 15%, 10%, 5%, 2.5%, 1%, or less. In some cases, the sample is obtained from the embryo free region of an oil palm seed.

[0164] In some embodiments, endosperm material can be extracted from a sampling zone of a seed with a needle or probe that penetrates the seed shell and enters a sampling zone and avoids an embryo containing zone. The sampled material or fluid can further be purified from contaminating maternal DNA by removing fragments of the seed shell that might be present in the endosperm sample. In some cases, endosperm DNA can then be extracted from the endosperm material or fluid. Alternatively, oil palm nucleic acid can be obtained from a seedling, an immature (*e.g.*, non fruit bearing) plant, or a mature plant.

[0165] Samples can be extracted by grinding, cutting, slicing, piercing, needle coring, needle aspiration or the like. Sampling can be automated. For example, a machine can be used to take samples from a plant or seed, or to take samples from a plurality of plants or seeds. Sampling can also be performed manually. Further sampling methodologies are described herein.

[0166] In some embodiments, the sampling is controlled to deter contamination of the sample. For example, washing steps can be employed between sample processing steps.

Alternatively, disposable or removable sample handling elements can be utilized, *e.g.*, disposable pipetting tips, disposable receptacles or containers, or disposable blades or grinders.

[0167] In some cases, samples are purified prior to detection of *VIR* genotype or prediction of fruit color phenotype. For example, samples can be centrifuged, extracted, or precipitated. Additional methods for purification of plant nucleic acids are known by those of skill in the art.

[0168] In some embodiments, a seed or plant fruit color phenotype is predicted, and the seed or plant is sorted based on the predicted phenotype. For example, the seed or plant can be sorted into *nigrescens* or *virescens* seeds or plants based on their predicted phenotype. *Nigrescens* and *virescens* seeds or plants can be sorted and stored separately as breeding stock for the generation of plants with the desired fruit form phenotype. *Virescens* seeds or plants can also be planted and cultivated for the enhanced oil yield they provide. In some cases, the plant is a seed and the sorting is performed on the seed. Alternatively, the plant is a seedling and the sorting is performed on the seedling before it is planted in the field or before its use in breeding. As yet another alternative, oil palm plants that have been planted in the field for optimal palm oil yield, but are not mature enough to verify fruit color phenotype can be assayed and *nigrescens* plants can be removed from the field.

[0169] In some embodiments, a seed or plant fruit color and shell thickness phenotype is predicted, and the seed or plant is sorted based on one or both of the predicted phenotypes**.** For example, the seed or plant can be sorted into *nigrescens* or *virescens* seeds or plants and *dura*, *tenera*, or *pisifera* seeds or plants based on their predicted phenotypes. *Nigrescens* and *virescens* versions of *dura*, *tenera*, or *pisifera* seeds or plants can be sorted and stored separately as breeding stock for the generation of plants with the desired fruit form phenotype. Seeds or plants having, *e.g.*, a *viriscens* and a *tenera* predicted phenotype can also be planted and cultivated for the enhanced oil yield they provide. Other combinations of fruit color and shell thickness predicted phenotypes can also be stored, separated, planted, or discarded based on their predicted phenotypes. In some cases, the plant is a seed and the sorting is performed on the seed. Alternatively, the plant is a seedling and the sorting is performed on the seedling before it is planted in the field or before its use in breeding. As yet another alternative, oil palm plants that have been planted in the field for optimal palm oil yield, but are not mature enough to verify fruit color phenotype can be assayed and *nigrescens* and/or *dura* or *pisifera* plants can be removed from the field.

[0170] Methods of polymorphism detection can be performed on any type of biological sample from the plant that contains nucleic acids (*e.g.*, DNA, or RNA). One particular advantage of the methods is to predict the fruit color phenotype of young plants before cultivation in the field. Therefore, in some embodiments, the samples are obtained from a plant that has been germinated and then cultivated less than 1, 2, 4, 6, months or less than 1, 2, 3, 4, or 5 years. In some embodiments, the samples are obtained before the plant has been germinated (*e.g.*, from a seed) or shortly thereafter (*e.g.*less than about 1, 2, 3, 4, or 5 weeks after germination).

[0171] In some embodiments, the plants are generated from i) a cross between *nigrescens* and *virescens* palms ii) the selfing of a *virescens* palm, iii) a cross between two plants having the *virescens* fruit color phenotype, iv) selfing of a *nigrescens* palm, or v) a cross between two *nigrescens* palms. Because such crosses are not 100% efficient, parent plants are not necessarily true breeding (*e.g.*, heterozygote parents), and *VIR* alleles can be dominant, dominant negative, or recessive, such crosses can result in an unpredictable percentage of seeds or plants with the *virescens* fruit color phenotype. By testing seeds or plants resulting from the attempted crosses, one can reduce or eliminate non- *virescens* contaminant seeds or plants from material planted for cultivation (optionally discarding those plants that are predicted to be *nigrescens*). Alternatively, one can identify and segregate plants based on their predicted fruit color phenotype, allowing for selection and cultivation of fields of pure *nigrescens* or *virescens* plants, if desired, *e.g.*, for later breeding purposes.

1. Systems and Machine for Sampling and/or Sorting

[0172] Machines can be utilized to carry out one or more methods described herein, prepare plant samples for one or more methods described herein, or facilitate high throughput sorting of oil palm plants.

[0173] In some cases, a machine can sort and orient seeds such that the seed are all oriented in a similar manner. The seeds for example, can be oriented such that embryo region of the seed is down and the embryo free region is oriented up. In some cases, the seeds can be placed into an ordered array or into a single line.

[0174] In some embodiments, the seed is held in pre-determined orientation to facilitate efficient and accurate sampling. For example, the machine can orient the seeds by seed shape or visual appearance. In some cases, the seed is oriented to facilitate sampling from the 'Crown' of each respective seed, containing the cotyledon and/or endosperm tissue of the seed, so that the germination viability of each seed is preserved.

[0175] In some cases, the machine can separately store plants or seeds and their extracted samples without reducing, or without substantially reducing the viability of the seeds. In some cases, the extracted samples and stored plants or seeds are organized, labeled, or catalogued in such a way that the sample and the seed from which it is derived can be determined. In some cases, the extracted samples and stored plants or seeds are tracked so that each can be accessed after data is collected. For example, a sample can be extracted from a seed and the *VIR* genotype determined for the sample, and thus the seed. The seed can then be accessed and planted, stored, or destroyed based on the predicted fruit color phenotype.

[0176] In some cases, the extraction and storing are performed automatically by the machine, but the genotype analysis and/or treatment of analyzed seeds performed manually or performed by another machine. As such, in some embodiments, a system is provided consisting of two or more machines for extraction of seed samples, seed sorting and storing, and prediction of fruit color phenotype.

[0177] In some cases, the plants or seed are stored in an array by the machine, such as individually in an array of tubes or wells. The plants can be sampled and/or interrogated in or from each well. The results of the sampling or interrogating can be correlated with the position of the plant in the array.

[0178] Sampling can include extraction and/or analysis of nucleic acid (*e.g.*, DNA or RNA), magnetic resonance imaging, optical dispersion, optical absorption, ELISA, enzymatic assay, or the like.

[0179] Systems, machines, methods and compositions for seed sampling and/or sorting are further described in, *e.g.*, U.S. Patent NOs: 6,307,123; 6,646,264; 7,367,155; 8,312,672; 7,685,768; 7,673,572; 8,443,545; 7,998,669; 8,362,317; 8,076,076; 7,402,731; 7,600,642; 8,237,016; 8,401,271; 8,281,935; 8,241,914; 6,880,771; 7,909,276; 8,221,968; and 7,454,989. Systems, machines, methods and compositions for seed sampling and/or sorting are also further described in, *e.g.*, U.S. Patent Application Publication NOs: 2012/180386; 2009/070891; 2013/104454, 2012/117865, 2008/289061; 2008/000815; 2011/132721; 2011/195866; 2011/0079544; 2010/0143906; and 2013/079917. Additional systems, machines, methods, and compositions for seed sampling are further described in international patent application publications WO2011/119390; and WO2011/119394.

[0180] Also provided herein are methods for using the systems, machines, methods, and compositions described herein for seed sampling or sorting. For example, a seed or set of

seeds can be loaded into a seed sampler, and a sample obtained. In some cases, the seed can be stored, *e.g.*, in an array. In some cases, the storage is performed by the machine that samples the seed. In other cases, the seed is stored by another machine, or stored manually. In some cases, DNA can be extracted from the sample. In some cases, sample can be obtained and DNA extracted by the same machine. In other cases, the DNA is extracted by another machine, or manually. The extracted DNA can be analyzed and the *VIR* genotype determined. In some cases, the extracted DNA is analyzed by the same machine, by another machine, or manually. In some cases, fruit color phenotype is predicted from the *VIR* genotype by the machine, a different machine, or manually. In some cases, stored seeds can be disposed of (*e.g.*, cultivated or destroyed) based on the *VIR* genotype or predicted fruit color phenotype. In some cases, stored seeds can be disposed of based on the *VIR* genotype or predicted fruit color phenotype and based on their predicted shell thickness phenotype. In some cases, the seed is disposed of by the machine, a different machine, or manually.

[0181] In some cases, the seed or seeds are shipped from a customer to a service provider, analyzed, and returned. In some cases, only seeds with a predicted phenotype or phenotypes are returned. For example, only *virescens* or only *nigrescens*, or a combination thereof are returned. In other cases, seeds are sampled, and the samples are shipped from a customer to a service provider for analysis. The customer can then utilize information provided by the analysis to dispose of the seeds.

[0182] In some cases, reagents, such as the compositions described herein are provided for sampling of seeds manually or automatically. For example, endonucleases, oligonucleotide primers or probes, or a combination thereof as described herein can be provided. As another example, reaction mixtures containing reagents necessary for analysis of nucleic acid from an oil palm plant can be provided.

IV. Transgenic plants

[0183] As discussed above, the *VIR* gene of palm has been discovered to control fruit color phenotype. Thus in some embodiments, plants having modulated expression of a VIR polypeptide are provided. One desirable fruit color phenotype (*virescens*, having fruit color that changes from green to reddish orange upon ripening) occurs naturally as either a homozygote (*e.g.*, two recessive mutations of the wild-type *VIR* allele), or as a heterozygote (*e.g.*, at least one dominant negative mutation of wild-type the *VIR* allele).

[0184] *virescens*-type *VIR* alleles can result in plants that do not express sufficient functional *VIR*. Accordingly, in some embodiments, plants having reduced level of functional

VIR protein compared to a *nigrescens* plant are provided. Such plants can be generated, for example, using gene inhibition technology, including but not limited to siRNA technology, to reduce, or eliminate, endogenous *VIR* gene expression of an active *VIR* protein (*e.g.*, in a *nigrescens* background).

[0185] Alternatively, a heterologous expression cassette (*i.e.*, a transgene) can be introduced into a *nigrescens* background where the expression cassette promotes expression of a dominant negative *VIR* allele. This can be achieved, for example, by operably linking a suitable promoter to mutated *VIR* gene, such as those provided in **SEQ ID NOS:6**, **7**, **9**, **11**, **13,** or **15**, or a fragment thereof that contains a Myb-like DNA binding domain. In some cases, the *VIR* gene or fragment utilized may contain additional sequence encoding for additional C-terminal amino acids. Alternatively, a fragment of the wild-type *VIR* gene (*e.g.*, a fragment of **SEQ ID NO:1**) may be utilized. In yet other embodiments, a *VIR* gene substantially similar to the wild-type may be utilized as a dominant negative as long as it contains a mutation, such as a point mutation, that renders the C-terminal domain inactive or substantially inactive, but does not substantially interfere with one or more of the DNA binding domains. Suitable promoters that can be operably linked to the genes or gene fragments provided above include, but are not limited to strong promoters like CaMV 35S, and native promoters like the native *VIR* gene promoter.

A. Inhibition or suppression of gene expression

[0186] Methods for controlling the fruit color trait in a palm (*e.g.*, oil palm, coconut, or date palm) or other plant are provided by reducing expression of an endogenous nucleic acid molecule encoding a VIR polypeptide. For example, in a transgenic plant, a nucleic acid molecule, or antisense, siRNA, microRNA, or dsRNA constructs thereof, targeting a *VIR* gene product, or fragment thereof, or a *VIR* mRNA, or fragment thereof can be operatively linked to an exogenous regulatory element, wherein expression of the construct suppresses endogenous *VIR* expression.

[0187] A number of methods can be used to inhibit gene expression in plants. For instance, antisense technology can be conveniently used. To accomplish this, a nucleic acid segment from the desired gene is cloned and operably linked to a promoter such that the antisense strand of RNA will be transcribed. The expression cassette is then transformed into plants and the antisense strand of RNA is produced. In plant cells, it has been suggested that antisense RNA inhibits gene expression by preventing the accumulation of mRNA which encodes the protein of interest, see, *e.g.*, Sheehy *et al.*, *Proc. Nat. Acad. Sci. USA*,

85:8805-8809 (1988); Pnueli *et al*., *The Plant Cell* 6:175-186 (1994); and Hiatt *et al*., U.S. Patent No. 4,801,340.

[0188] The antisense nucleic acid sequence transformed into plants will be substantially identical to at least a portion of the endogenous gene or genes to be repressed. The sequence, however, does not have to be perfectly identical to inhibit expression. For example, an antisense or sense nucleic acid molecule encoding only a portion of a *VIR* -encoding sequence can be useful for producing a plant in which *VIR* expression is suppressed. The vectors of the present invention can be designed such that the inhibitory effect applies to other proteins within a family of genes exhibiting homology or substantial homology to the target gene, or alternatively such that other family members are not substantially inhibited.

[0189] For antisense suppression, the introduced sequence also need not be full length relative to either the primary transcription product or mature mRNA (*e.g.*, **SEQ ID NO:3** or polyadenylated **SEQ ID NO:3**). Generally, higher homology can be used to compensate for the use of a shorter sequence. Furthermore, the introduced sequence need not have the same intron or exon pattern, and homology of non-coding segments may be equally effective. In some embodiments, a sequence of at least, *e.g.*, 15, 20, 25 30, 50, 100, 200, or more continuous nucleotides (up to mRNA full length) substantially identical to an endogenous *VIR* mRNA, or a complement or reverse complement thereof, can be used.

[0190] Catalytic RNA molecules or ribozymes can also be used to inhibit expression of *VIR* genes. It is possible to design ribozymes that specifically pair with virtually any target RNA and cleave the phosphodiester backbone at a specific location, thereby functionally inactivating the target RNA. In carrying out this cleavage, the ribozyme is not itself altered, and is thus capable of recycling and cleaving other molecules, making it a true enzyme. The inclusion of ribozyme sequences within antisense RNAs confers RNA-cleaving activity upon them, thereby increasing the activity of the constructs.

[0191] A number of classes of ribozymes have been identified. One class of ribozymes is derived from a number of small circular RNAs that are capable of self-cleavage and replication in plants. The RNAs replicate either alone (viroid RNAs) or with a helper virus (satellite RNAs). Examples include RNAs from avocado sunblotch viroid and the satellite RNAs from tobacco ringspot virus, lucerne transient streak virus, velvet tobacco mottle virus, *Solanum nodiflorum* mottle virus and subterranean clover mottle virus. The design and use of target RNA-specific ribozymes is described in Haseloff *et al. Nature,* 334:585-591 (1988).

[0192] Another method of suppression is sense suppression (also known as co-suppression). Introduction of expression cassettes in which a nucleic acid is configured in the sense orientation with respect to the promoter has been shown to be an effective means by which to block the transcription of target genes. For an example of the use of this method to modulate expression of endogenous genes see, Napoli *et al., The Plant Cell* 2:279-289 (1990); Flavell, *Proc. Natl. Acad. Sci., USA* 91:3490-3496 (1994); Kooter and Mol, *Current Opin. Biol*. 4:166-171 (1993); and U.S. Patents Nos. 5,034,323, 5,231,020, and 5,283,184.

[0193] Generally, where inhibition of expression is desired, some transcription of the introduced sequence occurs. The effect may occur where the introduced sequence contains no coding sequence *per se*, but only intron or untranslated sequences homologous to sequences present in the primary transcript of the endogenous sequence. The introduced sequence generally will be substantially identical to the endogenous sequence intended to be repressed. This minimal identity will typically be greater than about 65%, but a higher identity might exert a more effective repression of expression of the endogenous sequences. In some embodiments, the level of identity is more than about 80% or about 95%. As with antisense regulation, the effect can apply to any other proteins within a similar family of genes exhibiting homology or substantial homology and thus which area of the endogenous gene is targeted will depend whether one wished to inhibit, or avoid inhibition, of other gene family members.

[0194] For sense suppression, the introduced sequence in the expression cassette, needing less than absolute identity, also need not be full length, relative to either the primary transcription product or fully processed mRNA. This may be preferred to avoid concurrent production of some plants that are overexpressers. A higher identity in a shorter than full length sequence compensates for a longer, less identical sequence. Furthermore, the introduced sequence need not have the same intron or exon pattern, and identity of non-coding segments will be equally effective. Normally, a sequence of the size ranges noted above for antisense regulation is used.

[0195] Endogenous gene expression may also be suppressed by way of RNA interference (RNAi), which uses a double-stranded RNA having a sequence identical or similar to the sequence of the target gene. RNAi is the phenomenon in which when a double-stranded RNA having a sequence identical or similar to that of the target gene is introduced into a cell, the expressions of both the inserted exogenous gene and target endogenous gene are suppressed. The double-stranded RNA may be formed from two separate complementary RNAs or may

be a single RNA with internally complementary sequences that form a double-stranded RNA. Although details of the mechanism of RNAi are still unknown, it is considered that the introduced double-stranded RNA is initially cleaved into small fragments, which then serve as indexes of the target gene in some manner, thereby degrading the target gene. RNAi is known to be also effective in plants (see, *e.g.*, Chuang, C. F. & Meyerowitz, E. M., *Proc. Natl. Acad. Sci. USA* 97: 4985 (2000); Waterhouse *et al.*, *Proc. Natl. Acad. Sci. USA* 95:13959-13964 (1998); Tabara *et al. Science* 282:430-431 (1998)). For example, to achieve suppression of the expression of a DNA encoding a protein using RNAi, a double-stranded RNA having the sequence of a DNA encoding the protein, or a substantially similar sequence thereof (including those engineered not to translate the protein) or fragment thereof, is introduced into a plant of interest. The resulting plants may then be screened for a phenotype associated with the target protein and/or by monitoring steady-state RNA levels for transcripts encoding the protein. Although the genes used for RNAi need not be completely identical to the target gene, they may be at least 70%, 80%, 90%, 95% or more identical to the target gene sequence. *See*, *e.g.*, U.S. Patent Publication No. 2004/0029283. The construct encoding an RNA molecule with a stem-loop structure that is unrelated to the target gene and that is positioned distally to a sequence specific for the gene of interest may also be used to inhibit target gene expression. *See*, *e.g.*, U.S. Patent Publication No. 2003/0221211.

[0196] The RNAi polynucleotides may encompass the full-length target RNA or may correspond to a fragment of the target RNA. In some cases, the fragment will have fewer than 100, 200, 300, 400, 500 600, 700, 800, 900 or 1,000 nucleotides corresponding to the target sequence. In addition, in some embodiments, these fragments are at least, *e.g.*, 50, 100, 150, 200, or more nucleotides in length. In some cases, fragments for use in RNAi will be at least substantially similar to regions of a target protein that do not occur in other proteins in the organism or may be selected to have as little similarity to other organism transcripts as possible, *e.g.*, selected by comparison to sequences in analyzing publicly-available sequence databases.

[0197] Expression vectors that continually express siRNA in transiently – and stably–transfected plants have been engineered to express small hairpin RNAs, which get processed *in vivo* into siRNAs molecules capable of carrying out gene-specific silencing (Brummelkamp *et al.*, *Science* 296:550-553 (2002), and Paddison, *et al.*, *Genes & Dev.* 16:948-958 (2002)). Post-transcriptional gene silencing by double-stranded RNA is discussed

in further detail by Hammond *et al. Nature Rev Gen* 2: 110-119 (2001), Fire *et al. Nature* 391: 806-811 (1998) and Timmons and Fire *Nature* 395: 854 (1998).

[0198] One of skill in the art will recognize that using technology based on specific nucleotide sequences (*e.g.*, antisense or sense suppression, siRNA, microRNA technology, etc.), families of homologous genes can be suppressed with a single sense or antisense transcript. For instance, if a sense or antisense transcript is designed to have a sequence that is conserved among a family of genes, then multiple members of a gene family can be suppressed. Conversely, if the goal is to only suppress one member of a homologous gene family, then the sense or antisense transcript should be targeted to sequences with the most variance between family members.

[0199] Yet another way to suppress expression of an endogenous plant gene is by recombinant expression of a microRNA that suppresses a target (*e.g.*, a *VIR* gene). Artificial microRNAs are single-stranded RNAs (*e.g.*, between 18-25 mers, generally 21 mers), that are not normally found in plants and that are processed from endogenous miRNA precursors. Their sequences are designed according to the determinants of plant miRNA target selection, such that the artificial microRNA specifically silences its intended target gene(s) and are generally described in Schwab *et al.*, *The Plant Cell* 18:1121-1133 (2006) as well as the internet-based methods of designing such microRNAs as described therein. *See also*, US Patent Publication No. 2008/0313773.

B. Use of nucleic acids of the invention to enhance gene expression

[0200] Nucleic acid sequences encoding all or an active part of a VIR polypeptide (including but not limited to polypeptides substantially identical to **SEQ ID NOS:5**, **8**, **10**, **12,** or **14**, or VIR polypeptides having a functional DNA binding domain and one or more non-functional domains (*e.g.*, a VIR polypeptide truncated C-terminal to one or more DNA binding domains), which when expressed control fruit color) can be used to prepare expression cassettes that enhance, or increase expression of dominant negative *VIR* alleles. Alternatively, nucleotide sequences encoding all or an active part of a VIR polypeptide (including but not limited to polypeptides substantially identical to **SEQ ID NO:4**) can be used to prepare expression cassettes that enhance or increase expression of *VIR*. Where overexpression of a gene is desired in a background that contains a copy of the same gene or a copy of a gene substantially similar, the desired *VIR* gene from a different species may be used to decrease potential sense suppression effects. Alternatively, co-suppression may be

reduced by introducing silent mutations into the *VIR* gene of the expression cassette that do not alter the amino acid coding sequence, but reduce the similarity to the endogenous gene.

[0201] Any of a number of means well known in the art can be used to increase VIR activity in plants. Any organ can be targeted, such as shoot vegetative organs/structures (*e.g.* leaves, stems and tubers), roots, flowers and floral organs/structures (*e.g.* bracts, sepals, petals, stamens, carpels, anthers and ovules), seed (including embryo, endosperm, and seed coat) and fruit. Alternatively, a *VIR* gene can be expressed constitutively (*e.g.*, using the CaMV 35S promoter).

[0202] One of skill will recognize that the polypeptides encoded by the genes of the invention, like other proteins, have different domains which perform different functions. Thus, the gene sequences need not be full length, so long as the desired functional domain of the protein is expressed.

V. Preparation of recombinant vectors

[0203] In some embodiments, to use isolated sequences in the above techniques, recombinant DNA vectors suitable for transformation of plant cells are prepared. Techniques for transforming a wide variety of higher plant species are well known and described in the technical and scientific literature. *See*, for example, Weising *et al. Ann. Rev. Genet*. 22:421-477 (1988). A DNA sequence coding for the desired polypeptide, for example a cDNA sequence encoding a full length protein, will preferably be combined with transcriptional and translational initiation regulatory sequences which will direct the transcription of the sequence from the gene in the intended tissues of the transformed plant.

[0204] For example, for overexpression, a plant promoter fragment may be employed which will direct expression of the gene in all tissues of a regenerated plant. Such promoters are referred to herein as "constitutive" promoters and are active under most environmental conditions and states of development or cell differentiation. Examples of constitutive promoters include the cauliflower mosaic virus (CaMV) 35S transcription initiation region, the 1'- or 2'- promoter derived from T-DNA of *Agrobacterium tumefaciens*, and other transcription initiation regions from various plant genes known to those of skill.

[0205] Alternatively, the plant promoter may direct expression of the polynucleotide of the invention in a specific tissue (tissue-specific promoters) or may be otherwise under more precise environmental control (inducible promoters). Examples of tissue-specific promoters under developmental control include promoters that initiate transcription only in certain tissues, such as fruit, seeds, or flowers. Examples of environmental conditions that may

affect transcription by inducible promoters include anaerobic conditions, elevated temperature, or the presence of light.

[0206] If proper polypeptide expression is desired, a polyadenylation region at the 3'-end of the coding region should be included. The polyadenylation region can be derived from the natural gene, from a variety of other plant genes, or from T-DNA.

[0207] The vector comprising the sequences (*e.g.*, promoters or coding regions) from genes of the invention can optionally comprise a marker gene that confers a selectable phenotype on plant cells. For example, the marker may encode biocide resistance, particularly antibiotic resistance, such as resistance to kanamycin, G418, bleomycin, hygromycin, or herbicide resistance, such as resistance to chlorosluforon or Basta.

[0208] *VIR* nucleic acid operably linked to a promoter is provided that, in some embodiments, is capable of driving the transcription of the *VIR* coding sequence in plants, such as a wild-type *VIR* coding sequence or a dominant negative *VIR* coding sequence. The promoter can be, *e.g.*, derived from plant or viral sources. The promoter can be, *e.g.*, constitutively active, inducible, or tissue specific. In construction of recombinant expression cassettes, vectors, transgenics, of the invention, a different promoters can be chosen and employed to differentially direct gene expression, *e.g.*, in some or all tissues of a plant or animal. In some embodiments, as discussed above, desired promoters are identified by analyzing the 5' sequences of a genomic clone corresponding to a *VIR* gene as described here. For examples, desired promoters may be found in the region of **SEQ ID NOS:1** or **17** that are 5’ of the *VIR* gene.

VI. Production of transgenic plants

[0209] DNA constructs of the invention may be introduced into the genome of the desired plant host by a variety of conventional techniques. For example, the DNA construct may be introduced directly into the genomic DNA of the plant cell using techniques such as electroporation and microinjection of plant cell protoplasts, or the DNA constructs can be introduced directly to plant tissue using ballistic methods, such as DNA particle bombardment. Alternatively, the DNA constructs may be combined with suitable T-DNA flanking regions and introduced into a conventional *Agrobacterium tumefaciens* host vector. The virulence functions of the *Agrobacterium tumefaciens* host will direct the insertion of the construct and adjacent marker into the plant cell DNA when the cell is infected by the bacteria.

[0210] Various palm transformation methods have been described. *See, e.g.*, Masani and Parveez, *Electronic Journal of Biotechnology* Vol. 11 No. 3, July 15, 2008; Chowdury *et al.*, *Plant Cell Reports*, Volume 16, Number 5, 277-281 (1997).

[0211] Microinjection techniques are known in the art and well described in the scientific and patent literature. The introduction of DNA constructs using polyethylene glycol precipitation is described in Paszkowski *et al*. *EMBO J.* 3:2717-2722 (1984). Electroporation techniques are described in Fromm *et al. Proc. Natl. Acad. Sci. USA* 82:5824 (1985). Ballistic transformation techniques are described in Klein *et al*. *Nature* 327:70-73 (1987).

[0212] *Agrobacterium tumefaciens*-mediated transformation techniques, including disarming and use of binary vectors, are well described in the scientific literature. See, for example Horsch *et al. Science* 233:496-498 (1984), and Fraley *et al. Proc. Natl. Acad. Sci. USA* 80:4803 (1983).

[0213] Transformed plant cells that are derived from any transformation technique can be cultured to regenerate a whole plant that possesses the transformed genotype and thus the desired phenotype. Such regeneration techniques rely on manipulation of certain phytohormones in a tissue culture growth medium, optionally relying on a biocide and/or herbicide marker that has been introduced together with the desired nucleotide sequences. Plant regeneration from cultured protoplasts is described in Evans *et al.*, *Protoplasts Isolation and Culture, Handbook of Plant Cell Culture*, pp. 124-176, MacMillilan Publishing Company, New York, 1983; and *Binding, Regeneration of Plants, Plant Protoplasts*, pp. 21-73, CRC Press, Boca Raton, 1985. Regeneration can also be obtained from plant callus, explants, organs, or parts thereof. Such regeneration techniques are described generally in Klee *et al. Ann. Rev. of Plant Phys.* 38:467-486 (1987).

[0214] The nucleic acids of the invention can be used to confer desired traits on essentially any plant. Thus, the invention has use over a broad range of plants, including species from the genera *Asparagus*, *Atropa*, *Avena*, *Brassica*, *Citrus*, *Citrullus*, *Capsicum*, *Cucumis*, *Cucurbita*, *Daucus*, *Fragaria*, *Glycine*, *Gossypium*, *Helianthus*, *Heterocallis*, *Hordeum*, *Hyoscyamus*, *Lactuca*, *Linum*, *Lolium*, *Lycopersicon*, *Malus*, *Manihot*, *Majorana*, *Medicago*, *Nicotiana*, *Oryza*, *Panieum*, *Pannesetum*, *Persea*, *Pisum*, *Pyrus*, *Prunus*, *Raphanus*, *Secale*, *Senecio*, *Sinapis*, *Solanum*, *Sorghum*, *Trigonella*, *Triticum*, *Vitis*, *Vigna*, and, *Zea*. Plants that fruit, and have use in the present invention, include but are not limited to dicotyledons and monocotyledons including but not limited to palm, such as oil palm.

VII. Kits

[0215] Described herein are kits for the prediction of fruit color phenotype of an oil palm plant. The kit can contain one or more endonucleases. In some cases, each endonuclease is specific for one or more *VIR* alleles. For example, each endonuclease can recognize and cleave a sequence at or near one or more *VIR* alleles or a portion thereof, but does not recognize or cleave a sequence at or near at least one other *VIR* allele or a portion thereof. In some cases, the one or more endonucleases is *AseI*, *AluI*, or an isoschizomer thereof.

[0216] The kit can contain one or more oligonucleotide primers for amplification at or near the *VIR* locus. For instance, the kit can include at least one primer that primes amplification of at least a portion of one or more of the following *VIR* alleles: **SEQ ID NOS:1**, **3**, **7**, **9**, **11**, **13**, or **15**, or a primer pair that generates an amplicon comprising at least a portion of **SEQ ID NOS:1**, **3**, **7**, **9**, **11**, **13**, or **15**.

[0217] In some cases, the primer is specific for one or more *VIR* alleles. For example, the primer can hybridize to, and prime polymerization of, a region at or near one or more *VIR* alleles but does not hybridize to, or primer polymerization of, a region at or near one or more other *VIR* alleles. In other cases, the primer can hybridize to, or prime polymerization of, a region at or near (*e.g.*, within less than about 10,000 bp; 5,000 bp; 1,000 bp; 500 bp; 250 bp; 100 bp; 50 bp; 25 bp; 15 bp; or fewer) a *AseI, AluI, or ApoI* site of a *VIR* allele. In some cases, the oligonucleotide primer contains at least 10, 12, 15 or more contiguous nucleotides comprising a portion of **SEQ ID NOS:1**, **3**, **7**, **9**, **11**, **13**, **15**, or **17** or a reverse complement thereof. In some cases, the primer can provide, *e.g.* alone or in combination with other primers, for amplification such as isothermal amplification or PCR.

[0218] In some cases, the kit can include a primer pair for amplification by, *e.g.* PCR or an isothermal amplification method. In some cases, the primer pair can specifically hybridize to the oil palm genome and flank at least about 8, 10, 12, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 1000, 1500, 2000, 2500, 3000, 5000, 7500, or 10000 or more continuous nucleotides at or near the *VIR* locus. The primer pair can specifically amplify one or more *VIR* alleles and not amplify one or more *VIR* alleles, or the primer pair can amplify all naturally occurring *VIR* alleles.

[0219] The kit can also include control polynucleotides as described herein. For example, the kit can include a polynucleotide containing wild-type *VIR* nucleic acid or a portion thereof (*e.g.*, a nucleic acids that contains **SEQ ID NO:1** or **3** or a portion thereof). As another example, the kit can include one or more polynucleotides containing mutant *VIR*

nucleic acid or a portion thereof (*e.g.*, one or more nucleic acids encoding **SEQ ID NOS:7**, **9**, **11**, **13**, or **15**, or portions thereof) The kit can also include any of the reagents, proteins, oligonucleotides, *etc.* described herein. For instance, the control polynucleotides can be identical to expected amplicons based on the amplification primers described above (*e.g.*, spanning the target sequence including at least a portion of one or more of **SEQ ID NOS:1**, **7**, **9**, **11**, **13**, **15**, or **17**), and/or portions of such amplicons that would occur upon cleavage with the endonucleases as described above.

[0220] In some embodiments, a kit can include compositions for prediction of fruit color phenotype and shell thickness phenotype (*e.g.*, *dura*, *pisifera*, and *tenera*). In some cases, the fruit color and shell thickness phenotypes can be predicted at the same time, *e.g.*, as part of a single-pass sampling, identification, and/or sorting method. In some cases, the fruit color and shell thickness phenotypes can be predicted using the same nucleic acid sample. For example, a nucleic acid sample can be extracted from a portion of a plant or a seed and teated for the presence or absence of a *viriscens* allele or a polymorphism in linkage disequilibrium with a *virscens* or *nigrescens* allele and tested to predict the shell thickness phenotype of the plant or seed. Methods, compositions, and kits for predicting *SHELL* thickness include, but are not limited to, determining the genotype at the *SHELL* locus, determining the genotype of a polymorphism in linkage disequilibrium with the *SHELL* locus, determining the genotype of a gene that controls the shell thickness phenotype (*e.g.*, a gene encoding a MADS box protein), or identifying the presence or absence of a polymorphism in linkage disequilibrium with a gene that controls the shell thickness phenotype. Methods, compositions and kits for predicting shell thickness are described, *e.g.*, in PCT Publication No. 2013/142187; U.S. Patent Application No. 61/612,885, filed on March 19, 2012; U.S. Patent Application No. 61/847,853 filed on July 18, 2013; and U.S. Application No. 61/856,433, filed on July 19, 2013, the contents of which are hereby incorporated by reference in their entirety for all purposes.

EXAMPLES

[0221] The following examples are offered to illustrate, but not to limit the claimed invention.

Example 1: Identification and Characterization of the Gene Controlling the Fruit Color Phenotype in Oil Palm

Introduction

[0222] Commercially grown oil palm (*Elaeis guineensis*) is an outbreeding diploid species (2n=32) of West African origin (Zeven, A. C. *J. Niger. Inst. Oil Palm Res.* 4, 218–225 (1965); Hartley, C. In: *The Oil Palm.* 47-94 (Longman, 1988); Singh, R. *et al. Nature* 500, 335-339 (2013)). We recently reported the genome sequences of *E. guineensis* and the South American oil palm, *E. oleifera* (Singh, R. *et al. Nature* 500, 335-339 (2013)), as well as the discovery of the oil palm *SHELL* gene, a homologue of *SEEDSTICK* (*STK*), responsible for oil palm fruit forms (Singh, R. et al. *Nature* 500, 340-344 (2013)). We next sought to identify the genetic basis of oil palm fruit colour.

[0223] Fruit colour is an important trait in terms of fruit harvesting and, therefore, oil yield. The majority of oil palms produce either *nigrescens* or *virescens* fruit type (Hartley, C. In: *The Oil Palm.* 47-94 (Longman, 1988)). *Nigrescens* fruits are usually deep violet to black at the apex and yellow at the base when unripe, with minimal change in colour upon ripening (**Fig. 1a**, **c**). *Virescens* fruits are green when unripe, and change to orange when the bunch matures (**Fig. 1b**, **c**). For *nigrescens* palms, harvesters rely on the presence of detached fruits on the ground to determine that bunches are ripe. However, as *virescens* fruits undergo a more profound colour change upon ripening, it is easier to identify ripe bunches, particularly in tall palms where they can be obscured by fronds, thus minimizing yield loss due to fallen fruits or harvesting of unripe bunches. Both *nigrescens* and *virescens* palms occur in natural groves. Although the *virescens* trait is dominant, the number of *virescens* palms found in natural populations is small, with frequencies ranging from below 1% in Nigeria and Angola (Hartley, C. In: *The Oil Palm.* 47-94 (Longman, 1988)) to up to 50% in one location in Congo (Rajanaidu, N. In: *Proc. Int. Workshop."Oil palm germplasm and utilization". Palm Oil Res. Inst. Malaysia*, 59-83 (1986)). *Virescens* palms were used in ancient ceremonial rites (Zeven, A. C. *J. Niger. Inst. Oil Palm Res.* 4, 218–225 (1965)), explaining their occurrence among wild-type *nigrescens* palms, and "Ojuku" plants matching the description of *virescens* palms were reportedly used in tribal sacrificial ceremonies in West Africa

(ANON. *Bulletin of Miscellaneous Information, Royal Botanic Gardens, Kew*, 33-49 (1909); Farquhar, J.H.J. In: *The oil palm and its varieties.*1-11 (Whitehall Gardens, S.W., 1913)).

Methods

Plant Materials and Germplasm collection

[0224] The mapping family used was derived from the self pollination of a high iodine value virescens *tenera* palm T128 (accession number MPOB 371) which has been described in detail in Singh, R. et al. *Nature* 500, 340-344 (2013). An additional 108 palms derived from six families of different genetic backgrounds (**Table 1**) were available, part of which (81 palms) were used to confirm marker- trait association, while 96 of these palms were used to sequence the entire *virescens* gene. Similarly, an additional collection of advanced breeding lines (AVROS) (43 *nigrecens*) and germplasm material (87 *virescens* and 353 *nigrescens*) collected from seven countries in Africa were also sequenced to confirm the identity of the virescens gene and identify additional mutations within *VIR*. All germplasm materials were collected under bilateral agreements with the respective countries and followed closely the Convention on Biological Diversity (1992). The processing of leaf samples and DNA extraction were carried out as previously described in Singh, R. et al. *Nature* 500, 340-344 (2013).

Genetic Mapping

[0225] A total of 240 palms of the mapping family were available for DNA extraction at the start of this study. Of these, 32 palms could not be phenotyped with confidence, as the palms had been cut down or succumbed to disease before the fruit exocarp colour could be determined or re-confirmed. Of the 208 palms that were successfully phenotyped, 160 were identified as *virescens* palms and 48 as *nigrescens* palms. However, all 240 available palms were genotyped with 4,451 SNP markers using the Illumina iSelect assay (Illumina), 3 RFLP and197 SSR markers. The genetic map was constructed essentially as described in Singh, R. et al. *Nature* 500, 340-344 (2013), using JoinMap4.0.

Table 1

No.	Cross Type	Trial No.	Location	No. Palms Tested	Genetic Background
1	Tenera (T) x Tenera (T)	MKPOB PK575	MPOB-UKM Station, Bangi, Selangor	21	[0.151/128] x [AAR 0.127/13]

2	Tenera (T) x Tenera (T)	TT132	United Plantations, Teluk Intan, Perak	12	[Yangambi] x [JenderataTT-Yocoboue]
3	Tenera (T) x Tenera (T)	TT108	United Plantations, Teluk Intan, Perak	12	[Jenderata TT-Yocoboue] x [Nigerian Tenera]
4	Dura (D) x Tenera (T)	DT35	United Plantations, Teluk Intan, Perak	22	[Ulu-Bernam-Klanang Baru Deli Dura] x [Nigerian Tenera]
5	Dura (D) x Tenera (T)	DT38	United Plantations, Teluk Intan, Perak	20	[Klanang Baru-Ulu Remis Deli Dura] x [Nigerian Tenera]
6	Dura (D) x Pisifera (P)	DP454	United Plantations, Teluk Intan, Perak	21	[Ulu Remis Deli Dura] x [Yangambi Nifor]

[1]Parenthesis preceding the symbol 'x' denotes the female parent. .

[2]In the populations listed above, the female parent of MPOB PK575 is palm T128, which was self-pollinated to generate the population used for map construction in this study.

[3]The family TT132 was used to verify marker-trait linkage, but not used to amplify the virescens gene for confirmation via sequencing.

Fruit Colour Phenotyping

[0226] The fruit exocarp colour was determined on ripe bunches, following the ripeness criteria described in Corley and Tinker. In: *The Oil Palm* 4thedn, 287-325 (Blackwell Science, 2003), at least one loose fruit per bunch (irrespective of plant height). The bunch was harvested from the plant and a minimum of five fruitlets were stripped from the bunch. Visual observation was made of the exocarp, and fruits were classified as *nigrescens* (black at upper half and red at bottom) or *virescens* (orange with a greenish top). In this study at least two independent attempts were made to determine fruit colour of the mapping family as well as the breeding populations. With respect to the germplasm collection, fruit colour observations were made only once.

Genome and Transcriptome Sequencing

[0227] Twelve independent T128 progeny palms (5 *nigrescens* and 7 *virescens*) were sequenced to 20X raw sequence coverage by HISEQ 2000 (Illumina). Library construction, sequencing and assemblies were performed as described in Singh, R. *et al. Nature* 500, 335-339 (2013). For transcriptome sequencing, RNA was extracted from 10-20 fruits from two plants (1 *nigrescens* and 1 *virescens*) at 8 WAA. Three replicate RNA extractions were performed for each fruit pool. TrueSeq (Illumina) libraries were constructed and sequenced by HISEQ 2000 as described in Singh, R. *et al. Nature* 500, 340-344 (2013).

VIR Sanger Sequencing

[0228] The entirety of the *VIR* gene was amplified by PCR from oil palm genomic DNA using forward primer sequence, (SEQ ID NO:18) GCGTACGTGGAACCACAA, and reverse primer sequence, (SEQ ID NO:19) CTCCATTCTGGTGAGAAAGCGT, generating a single ~2.9 Kb amplicon. Forward and reverse primers included M13 Forward or M13 Reverse sequence tags, respectively. Amplicons were treated with exonuclease 1 (New England Biolabs) and shrimp alkaline phosphatase (Affymetrix) under standard conditions. Amplicons were sequenced using a combination of M13 primers and internal primers (internal primer sequences available upon request). Sequencing was performed on an ABI 3730 capillary DNA sequencer using big dye terminator VS 3.1 chemistry (LIFE Technologies). Local assemblies of each amplicon were constructed with PHRAP and reviewed in CONSED. Consensus sequence for each palm was aligned to the reference *pisifera* genome sequence (Singh, R. *et al. Nature* 500, 335-339 (2013)). Data were analyzed to determine the integrity of the coding sequence and resulting putative translated polypeptide of the *PAP1*-like gene for each palm. A large percentage of the palms analyzed were part of the 110,000 diverse germplasm collection available at MPOB.

Phylogenetic Analysis

[0229] A collection of R2R3 MYBs from previously studied plant species were selected based on their similarity to the VIR protein. These sequences were aligned using the ClustalX program, and the highly conserved R2R3 domains were then processed using the promlk program from the phylip package.

Pigment Extraction and SpectrophotometricAnalysis

[0230] Acidified methanol (1% HCl, v/v) was added to ground exocarp slices of *E. guineensis* (15 WAA *nigrescens* and *virescens* fruits) and stirred to ensure efficient extraction of pigments. The extracts were centrifuged at 3,000x g in an Eppendorf 5810R centrifuge to

remove debris. The supernatants were removed and filtered prior to further analysis. UV-Visible absorption spectra were recorded from 230-780 nm at 10 nm intervals using a U-2800 double beam scanning UV-Visible spectrophotometer (Hitachi, Japan) to determine the presence, if any, of anthocyanins.

High Performance Liquid Chromatography (HPLC)

[0231] HPLC was performed on a Waters 250X 4.6mm i.d., 5 µm, Atlantis dC18 column using a Waters Alliance W 2695 Separation Module (Waters. Assoc., Milford, USA) equipped with a 2996 photodiode array detector. A gradient mobile phase comprising Solvent (A), 9% acetonitrile, 10% formic acid, 90% water (v/v/v) and Solvent (B) 36% acetonitrile, 10% formic acid, 54% water (v/v/v) was used. The elution gradient was 0-3 min, 100% A., 3 -30 min 71.5% A., 28.5% B., 30-45 min, 71.5% A., 28.5% B. The flow rate was 1.0 mL per min and injection volume was 20 µL. Absorbance spectra were collected for all peaks.

RESULTS

[0232] Oil palm is an out-breeding species, and as such, a high degree of heterozygosity is expected. A population of 240 palms derived from the self-pollination of the *tenera* palm, T128 (0.151/128 x 0.151/128), from Malaysian Palm Oil Board's (MPOB) Nigerian germplasm collection (Rajanaidu, N. In: Proceedings of the 12th Plenary Meeting of Association for the Taxonomic Study of the flora of tropical Africa (AETFAT), Mitteilingen Inst. Allg. Bot. Hamburg, Germany, pp 39-52 (1990); Cheah, S. *et al*. In: Proceedings of the 1999 PORIM International Palm Oil Conference (eds Darus, K., Chan, K. W and Sharifah, S. R. S. A) Palm Oil Research Institute of Malaysia , pp 297-320 (1999); Singh, R. *et al. Asia Pac. J. Mol. Biol. Biotechnol.* **16**, 53-63 (2008)) was used to generate a genetic linkage map (Singh, R. *et al. Nature* 500, 335-339 (2013); Singh, R. *et al. Nature* 500, 340-344 (2013)). In addition, a subset of 81 palms from six independent crosses (**Table 1**) was used to confirm marker linkage. Markers were scored as co-dominant, segregating in a 1:2:1 ratio in most cases, while the *virescens* phenotype also showed the expected 3:1 segregation ratio in the mapping population (**Table 2**).

Table 2: Analysis of palms for fruit-colour

Number of palms genotyped[#]	Fruit-colour					
	Expected Ratio		*Observed Numbers*			
	Nigrescens	*Virescens*	*Nigrescens*	*Virescens*	Total[#]	χ^2
240	1	3	48	160	208	0.41

[#] There was a discrepancy between the total number of palms genotyped and the number observed for fruit-colour because some of the palms could not be phenotyped for various reasons.

[0233] Three informative RFLP markers were genotyped on the entire mapping population, and 197 SSR loci that were polymorphic in the mapping population were identified. Of 4,451 SNPs screened, 711 were used in map construction. The locus for the *virescens* gene *(VIR)* was located on linkage group 1 (Chromosome 1), with the RFLP marker MET 16 being the most tightly linked (**Tables 3** and **4**, **Fig. 2**).

Table 3: Linkage of SNP markers to the *VIR* gene locus in the mapping family and to Scaffolds in the Reference Genome Sequence

Marker	No. of Palms with Genotype and Phenotype	No. of Palms Matching Expected Profile	No .of Recombinants	% Predictability	Scaffold
SNPM01649y	205	146	59	71%	sc00408
SNPM04083x	207	162	45	78%	sc01152
SNPM02176x	207	166	41	80%	sc00231
SNPM03563x	207	164	43	79%	sc00015
SNPM00066x	206	175	31	85%	sc00015
SNPM00257_1y	208	177	31	85%	co228588
SNPM02655y	207	183	24	88%	sc00125
SNPM00387x	206	185	21	90%	sc00007

SNPM04941x	206	191	15	93%	sc00007
SNPM00572y	205	190	15	93%	sc00007
SNPM02867y	206	192	14	93%	sc00007
SNPM02708y	206	192	14	93%	sc00007
SNPM03010y	206	196	10	95%	sc00007
SNPM01250x	207	197	10	95%	sc00007
SNPM01237x	207	197	10	95%	sc00007
MET16x	200	191	9	96%	sc00007
VIR					
sOleiSc00009x	204	193	11	95%	sc00007
sMg00228x	205	193	12	94%	sc00327
SNPM00383x	204	190	14	93%	sc00327
SNPM02400x	202	189	13	94%	sc00942
SNPM04251x	207	187	20	90%	sc00031
SNPM00013y	208	186	22	89%	sc00031
SNPM00012y	208	186	22	89%	sc00031
sEg00164x	204	179	25	88%	sc00031
SNPM04365y	207	179	28	86%	sc00031
SNPM04665y	206	178	28	86%	sc00102
SNPM04690x	207	175	32	85%	sc00102
SNPM00498x	206	167	39	81%	sc00093
SNPM01470x	206	164	42	80%	sc00144
SNPM04247x	205	160	45	78%	sc00101
SNPM01475y	205	156	49	76%	sc00101
SNPM00224y	207	156	51	75%	co413678
SNPM04284x	206	149	57	72%	sc19981
SNPM02318x	205	148	57	72%	sc00069
SNPM00461y	206	147	59	71%	sc00069
SNPM02596x	206	149	57	72%	sc00363
SNPM00197_1y	208	145	63	70%	sc00069
SNPM04508x	206	141	65	68%	sc00019
SNPM01129y	205	138	67	67%	sc00019
SNPM03276y	205	136	69	66%	sc00019

SNPM00368y	208	131	77	63%	sc00080
SNPM00340x	202	135	67	67%	sc00080

Table 4: Correlation of *virescens* and *nigrescens* palms with the banding profile for probe MET16 in a subset of the T128 mapping population

No. of palms with field data	V - (1)	V - - (2)	N - (3)	χ^2	No. of palms with fruit-colour not matching banding patterns	
					Vir	Nig
125	28	62	21	2.40	1	4

* No. of palms for which the RFLP profile was not clear/ missing data: 9

[0234] Linkage of MET16 to the *virescens* trait was further tested in the 81 plants, resulting in 95% accuracy for distinguishing between *nigrescens* and *virescens* fruit traits (**Table 5**).

Table 5: Linkage of RFLP marker MET16 to the fruit-colour locus in six different families

Probe	Trait	No. of Palms Tested	No of Palms matching expected profiles	No. of Recombinants
MET16	Fruit-colour (*vir*)	81	77	4

[0235] Markers flanking the *VIR* candidate locus were mapped by sequence similarity to the *E. guineensis* (*pisifera*) reference genome assembly and localized to assembly scaffold 7 (p3-sc00007). A tiling path of BAC contigs corresponding to scaffold 7 was selected from a high-information content physical map of *pisifera* and sequenced. Additional SNP assays were designed from an improved assembly corresponding to scaffold 7 and genotyped. Markers mapping close to the *VIR* locus were identified (**Fig. 3**) and markers SNPM02708 and SNPM02400 were positioned on each side of the *VIR* locus. The interval contained 4 potential candidate genes that impact fruit pigmentation in other species: a gene with significant homology to both *Arabidopsis PRODUCTION OF ANTHOCYANIN PIGMENT 1*

(*PAP1*) and *AtMYB113*,and homologues of *Arabidopsis TRANSPARENT TESTA 12* (*TT12*), *PURPLE ACID PHOSPHATASE 18* (*PAP18*) and the *BHLH* gene, *ILR3*.

Identification of the VIR gene and mutations responsible for virescens fruit colour

[0236] To extend beyond the *E. guineensis* reference genome sequence, we queried genome sequence assemblies of 12 independent T128 progeny palms (5 *nigrescens* and 7 *virescens*) derived from 20-fold raw sequence coverage (HISEQ2000) per genome. Contigs from each assembly were mapped to the scaffolds which had been linked to genetic markers in the *virescens* genetic interval. In addition, the candidate genes above were each amplified by PCR, including exons and introns, and sequenced (ABI3730). The entire open reading frame of the gene homologous to *PAP1* and *AtMYB113* was intact in all 5 *nigrescens* palms. However, all 7 *virescens* palms were either heterozygous (n=4) or homozygous (n=3) for an A-to-T nonsense mutation in exon 3 of the identified candidate *VIR* gene (**Figs. 4** and **5**). The exon 3 mutation results in a predicted truncation of the 21 carboxy-terminal amino acids within the transcriptional activation domain of the R2R3-MYB transcription factor (**Fig. 6**).

[0237] Subsequently, the entirety of the gene was amplified and sequenced in 208 plants from the T128 cross (48 *nigrescens* and 160 *virescens*). In all, 158 plants were either heterozygous (n=99) or homozygous (n=59) for the nonsense mutation in exon 3, and 50 plants were homozygous wild-type, for an overall concordance of this nonsense mutation (Event 1) with fruit colour phenotype of 99% (**Table 6**). It is noted that a 1% discordance rate is well within the norms of phenotyping accuracy of breeding populations (Singh, R. *et al. Nature* 500, 340-344 (2013)). Although SNPs were identified in the other three candidate genes, the polymorphisms observed were not consistent with a functional mechanism affecting fruit colour phenotype of the twelve plants, and independent mutant alleles (see below) were not identified.

Table 6. Summary of *VIR* genotypes

	Phenotype			Genotype						
	Nig[a]	***Vir***[b]	***Total***	***Nig***[c]	***Event 1***	***Event 2***	***Event 3***	***Event 4***	***Event 5***	**Gen/Phen Concordance**[d]
Mapping population										
T128	48	160	208	50	158	-	-	-	-	99.0%
Breeding Populations										

DT35	11	11	22	11	11	-	-	-	-	100.0%
DT38	8	12	20	8	12	-	-	-	-	100.0%
DP454	9	12	21	9	12	-	-	-	-	100.0%
TT108	6	6	12	6	6	-	-	-	-	100.0%
AVROS	43	-	43	43	-	-	-	-	-	100.0%
MPOB PK575	10	11	21	10	11	-	-	-	-	100.0%
Total	87	52	139	87	52	0	0	0	0	100.0%

Germplasm Collections

Angola	261	48	309	262	-	45	1	1	-	99.7%
Madagascar	27	-	27	27	-	-	-	-	-	100.0%
Tanzania	47	12	59	45	-	14	-	-	-	96.6%
Ghana	8	15	23	8	3	4	8	-	-	100.0%
Congo	3	7	10	2		5	1	2	-	90.0%
Cameroon	5	3	8	5	-	-	-	-	3	100.0%
Nigeria	2	2	4	2	2	-	-	-	-	100.0%
Total	353	87	440	351	5	68	10	3	3	99.1%
Overall Total	488	299	787	488	215	68	10	3	3	99.2%

[a]*Nigrescens* fruit exocarp colour phenotype

[b]*Virescens* fruit exocarp colour phenotype

[c] Wild-type (*nigrescens*) genotype

[d]Genotype/Phenotype Concordance calculated as ((Number of *virescens* phenotyped plants genotyped as either heterozygous or homozygous for Event 1, 2, 3, 4, or 5) + (Number of *nigrescens* phenotyped plants genotyped as wild-type)) divided by the total number of plants sequenced**.**

[0238] To further support the discovery of the *VIR* gene, we sequenced the entire gene in 6 independent breeding populations, as well as samples from germplasm collections (**Table 6**). The breeding populations included 139 plants where the fruit colour phenotype was known (DT35, DT38, DP454, TT108, MPOBPK575 and a collection of palms from the AVROS background). In addition, 440 plants from Angola, Madagascar, Tanzania, Ghana, Congo, Cameroon and Nigeria were analyzed. In the breeding populations, all 52 *virescens*, but none

of the 87 *nigrescens* plants were found to be either heterozygous or homozygous for the Event 1 nonsense mutation in exon 3 (**Table 6**).

[0239] However, among the germplasm collections, the Event 1 mutation was detected in only 5 of 87 *virescens* plants, all of which were from either the Ghana or Nigeria collections. Instead, four independent, but closely related, mutations were identified in the other germplasm collections from sub-Saharan Africa. First, a G-to-T nonsense mutation (Event 2) was detected in exon 3, 30 base pairs (bp) 5' to Event 1 (**Figs. 4-6**). This mutation results in a predicted truncation of the 31 carboxy-terminal amino acids within the transcriptional activation domain. Event 2 was heterozygous or homozygous in 68 plants from the Angola (n=45), Tanzania (n=14), Ghana (n=4) or Congo (n=5) collections (**Table 6**, **Fig. 7**). Next, a G-to-A nonsense mutation (Event 3) was detected in exon 3, 113 bp 5' to Event 1 (**Figs. 4-6**). This mutation results in a predicted truncation of the 59 carboxy-terminal amino acids. The Event 3 mutation was heterozygous in 10 plants from Angola (n=1), Ghana (n=8) or Congo (n=1) (**Table 6**, **Fig. 7**). A fourth mutation (Event 4) is a two bp deletion beginning 11 bp 3' to Event 3, resulting in translation frameshift at the 55th carboxy-terminal amino acid (**Figs. 4-6**), and was heterozygous in 3 plants from Angola and Congo (**Table 6**, **Fig. 7**).

[0240] Finally, a heterozygous rearrangement (Event 5) resulting in a translational frameshift and premature truncation was detected in 3 of 3 *virescens* plants from Cameroon (**Table 6**, **Figs. 4-7**). The mutation is a 195 bp deletion with a 21 bp duplication which results in the truncation of 75 carboxy-terminal amino acids and a single amino acid conversion before reading a new stop codon. Considering all five single gene mutations, the concordance between genotype and fruit colour is 99.2% (**Table 6**).

[0241] The identification of 5 independent genetic mutations, each resulting in remarkably similar premature truncation within the activation domain, provides strong evidence for the identification of the *VIR* gene. C-terminal truncations of related genes in the R2R3-Myb family, most notably the maize C1 gene, have similarly dominant negative allelic forms (McClintock, B. *Cold Spring Harb. Symp. Quant. Biol.* 16, 13-47 (1951)). Furthermore, sequence similarity searches (BLAST) of the genome of the South American oil palm, *E. oleifera* (Singh, R. *et al. Nature* 500, 335-339 (2013)), which does not produce the deep violet coloured fruits similar to wild-type *E. guineensis,* do not identify an intact *VIR* gene.

Phylogeny, expression and function of VIR

[0242] The R2R3-MYB family includes more than 100 genes in *Arabidopsis* (Kranz, H.D. *et al. Plant J.* 16, 263-276 (1998); Romero, I. et al. *Plant J.* 14, 273-284 (1998)) and more

than 80 genes in maize (Rabinowicz, P.D. *et al. Genetics* 153, 427-444 (1999)). The family includes two sets of imperfect repeats (R2 and R3), each including three alpha-helices forming a helix-turn-helix motif (Du, H. *et al. Biochemistry* 74, 1-11 (2009)). The R2R3 proteins are members of regulatory networks controlling development, metabolism and responses to biotic and abiotic stresses (Dubos, C. *et al. Trends Plant Sci*. 15, 573-581 (2010)). We performed a phylogenetic analysis of the R2R3-MYB domain of *VIR* relative to other family members from various plant species, and the resulting phylogenetic tree suggests that it is related to MYB113/PAP1 (**Figs. 8**, and **9**). PAP1 and AtMYB113 belong to the phylogenetic branch of R2R3 proteins controlling accumulation of anthocyanins by regulation of biosynthetic gene expression (Borevitz, J.O. *et al. The Plant Cell* 12, 2383-2394 (2000); Gonzales, A. *et al. Plant J.* 53, 814-827 (2008)). Overexpression of Arabidopsis PAP1 results in intense purple pigmentation in many vegetative organs throughout development, and ectopic expression of Arabidopsis PAP1 in tobacco results in purple pigmented plants (Borevitz, J.O. *et al. The Plant Cell* 12, 2383-2394 (2000)). Overexpression of *AtMYB113* in Arabidopsis results in elevated pigment production, and down-regulation of *AtMYB113*, *AtMYB114*, *PAP1* and *PAP2* results in anthocyanin deficiency (Gonzales, A. *et al. Plant J.* 53, 814-827 (2008)). Furthermore, similar to the *VIR* mutations reported here, frameshift mutations in the carboxy-terminal region of C1 generates a dominant-negative inhibitory protein in maize, C1-I (Goff, S.A. *et al. Genes Dev.* 5, 298-309 (1991)). Ectopic expression of another allele of maize C1-I that lacks only four carboxy-terminal amino acids (*c1-I-2K1*) results in severe reduction of pigmentation in tobacco (Chen, B. *et al. Mol. Biotechnol.* 26, 187-192 (2004)). Finally, overexpression of Arabidopsis *Myb114* lacking the transactivation domain results in dominant anthocyanin deficiency (Gonzales, A. *et al. Plant J.* 53, 814-827 (2008)).

[0243] In order to examine anthocyanin deficiency in *virescens* fruits, we performed a combination of metabolic and gene expression analyses. Spectrophotometric and chromatographic (HPLC) analyses of acidified methanol extracts of exocarp confirmed the presence of anthocyanins in *nigrescens*, but absence in *virescens* fruit (**Fig. 10a-c**). Gene expression in *nigresens* and *virescens* whole fruits at 8 weeks after anthesis (WAA) was analyzed by transcriptome sequencing (**Table 7**). The oil palm fruit typically exhibits biphasic growth with an initial growth spurt between approximately 4 to 9 WAA. Further, significant biochemical changes are observed starting at 8 WAA and up to 10 WAA during the transition phase between a metabolic sink and a storage sink (Kok, S.Y. *et al. J. Plant*

Res. 126, 539-547 (2013)). Therefore, 8 WAA was chosen to examine expression of anthocyanin biosynthetic genes, avoiding later stages when expression of other mesocarp genes occurs that share the phenylpropanoid pathway, such as those involved in polyphenol biosynthesis.

Table 7. Samples used for transcriptome sequencing

Plant ID	Fruit Colour Phenotype	Stage	Tissue Type
0.482/6	Nigrescens	8WAA	Whole Fruit
0.482/6	Nigrescens	8WAA	Whole Fruit
0.482/6	Nigrescens	8WAA	Whole Fruit
0.482/8	Nigrescens	8WAA	Whole Fruit
0.482/8	Nigrescens	8WAA	Whole Fruit
0.482/8	Nigrescens	8WAA	Whole Fruit
0.481/350	Virescens	8WAA	Whole Fruit
0.481/350	Virescens	8WAA	Whole Fruit
0.481/350	Virescens	8WAA	Whole Fruit

[0244] Transcriptome reads with substantial sequence similarity to each biosynthetic gene in the *Arabidopsis* anthocyanin phenylpropanoid pathway were identified (**Tables 7** and **8**). Flavonoid enzymes can be divided into "early" and "late" groups that regulate distinct temporal stages of the pathway (Pelletier, M.K., *et al. Plant Physiol.* 113, 1437-1445 (1997)). However, the point in the pathway at which the early and late stages divide differs among various plant species. For example, in *Arabidopsis* seedlings, the late genes initiate at the F3'H step, with downstream genes being regulated by Myb/bHLH/WD-repeat proteins (Gonzales, A. *et al. Plant J.* 53, 814-827 (2008)) while in maize aleurone, the early/late split occurs at CHS, farther upstream in the pathway (Taylor and Briggs, *Plant Cell* 2, 115-127 (1990)). At 8 WAA, *nigrescens* fruits display dramatically higher expression of CHS and all later pathway genes (**Fig. 10d**). These results suggest that the truncating *VIR* mutations result in dominant inhibition of Myb-regulated target genes beginning at CHS and extending throughout the anthocyanin biosynthetic pathway, implying a late gene group similar to that in the maize aleurone.

Table 8. Transcriptome sequence analysis of *nigrescens* vs. *virescens* fruits

Gene name[a]	Number of genes included[b]	*nigrescens*[c]	*virescens*[c]	Difference (*nigrescens*-*virescens*) [d]
Vir	1	0.737	0.138	0.599
PAL	10	0.217	0.261	-0.044
C4H	26	0.956	0.961	-0.005
4CL	14	0.396	0.387	0.009
CHS	4	-1.011	-1.372	0.361
CHI TT5	24	1.977	1.523	0.454
F3H TT6	13	0.721	0.685	0.036
DFR TT3	13	0.737	0.534	0.204
LDOX	18	0.590	0.501	0.089
UF3GT	57	-0.391	-0.778	0.387

[a] Biosynthetic genes in the *Arabidopsis* anthocyanin phenylpropanoid pathway.

[b] Indicates the number of *E.guineensis* gene models that were grouped into each pathway gene group.

[c] Mean of $\log_{10}$ expression measured in fragments per thousand mapped reads (FPKM) as calculated by CUFFLINKS. To establish a limit of detection, a value of 0.00001 was added to each FPKM value.

[d] Mean of $\log_{10}$ FPKM for *nigrescens* fruits minus that for *virescens* fruits. Positive values represent higher expression in *nigrescens*, relative to *virescens*, fruits.

Discussion

[0245] Our findings establish that the oil palm *VIR* gene controls fruit colour and that any one of five independent, but closely related, dominant mutations in the gene can cause the *virescens* fruit colour phenotype (**Fig. 11**). The discovery of the genetic basis of the *virescens* phenotype paves the way for development of genetic testing for fruit colour well before planting and for the introgression of the desirable trait into elite breeding materials. For example, the identification of the *VIR* gene allows differentiation of the homozygous and heterozygous forms of *virescens* palms, as early as the seedling stage, and together with the recent identification of *SHELL* (Singh, R. et al. *Nature* 500, 340-344 (2013)), allows breeders to develop parental (*pisifera*) lines that are homozygous for *virescens* for use in breeding programmes or for commercial seed production. All 5 alleles of *VIR* from

equatorial Africa have C-terminal frameshifts and stop codons, and their prevalence is unprecedented. This likely reflects dominant negative inheritance (which makes novel alleles conspicuous) and cultural practices that retain the alleles for ritual purposes. The utility of these alleles will have important impacts on fruit harvesting practices, to improve oil yields and lead to improved land utilization.

[0246] **SEQ ID NO:1** is the genomic interval of *VIR* in a *nigrescens* palm from the T-128 cross, including 182bp 5' of the start codon, 2,445bp comprising the introns and exons of the gene, and 713bp 3' of the wild type stop codon.

[0247] **SEQ ID NO:2** is the nucleotide coding sequence of the wild-type *VIR* gene from the start codon to the stop codon.

[0248] **SEQ ID NO:3** is the expressed sequence of the *VIR* gene in a *nigrescens* plant including predicted 5' and 3' UTR sequence.

[0249] **SEQ ID NO:4** is the predicted amino acid translation of the wild-type *VIR* polypeptide.

[0250] **SEQ ID NO:5** is the predicted amino acid translation of the *VIR* Event 1 mutation, which was discovered in *viriscens* palms in the T128 segregating cross.

[0251] **SEQ ID NO:6** is the observed partial nucleotide coding sequence of *VIR* Event 1 mutation.

[0252] **SEQ ID NO:7** is the reconstructed complete coding sequence of *VIR* Event 1 mutation.

[0253] **SEQ ID NO:8** is the amino acid translation of the *VIR* Event 2 mutation.

[0254] **SEQ ID NO:9** is the reconstructed complete coding sequence of *VIR* Event 2 mutation.

[0255] **SEQ ID NO:10** is the amino acid translation of the *VIR* Event 3 mutation.

[0256] **SEQ ID NO:11** is the reconstructed complete coding sequence of *VIR* Event 3 mutation.

[0257] **SEQ ID NO:12** is the amino acid translation of the *VIR* Event 4 mutation.

[0258] **SEQ ID NO:13** is the reconstructed complete coding sequence of *VIR* Event 4 mutation.

[0259] **SEQ ID NO:14** is the amino acid translation of the *VIR* Event 5 mutation.

[0260] **SEQ ID NO:15** is the reconstructed complete coding sequence of *VIR* Event 5 mutation.

[0261] **SEQ ID NO:16** is the genomic interval sequence of the *VIR* gene in a *viriscens* plant.

[0262] **SEQ ID NO:17** is an approximately 2 megabase pair long genomic interval from the reference genome sequence of a congo derived pisifera palm around the *VIR* gene where the first base of the start codon is at position 1,000,001, and there is roughly a megabase 5' and 3' flanking the gene.

Example 2: Differential Detection of Wild-type and Event 2 *VIR* Alleles

[0263] A subset of *VIR* exon 3 including the Event 2 point mutation is shown in **Fig. 12a**. The G-to-T point mutation is indicated by the lower case "t" in the figure panel. The Event 2 nonsense mutation creates an *AseI* restriction enzyme recognition sequence (boxed bases in **Fig. 12a**). As shown in the figure, PCR primers (denoted by arrows) can be designed to amplify the surrounding sequence so that the amplicon includes only one potential *AseI* site, and this site is only present on alleles including the vir^{Event2} nonsense mutation. Using the primers suggested in the figure, PCR amplification results in a 340bp amplicon. As shown in the prophetic example in **Fig. 12b**, amplicons can be split into two portions: the first portion is mock-treated without restriction enzyme (NE) and the second portion is digested with *AseI*. Following gel electrophoresis, all NE portions will have a single 340bp band. Amplicons derived from *VIR/VIR* genomic DNA will have a single 340bp band in both the NE and the *AseI* lanes. Amplicons derived from *VIR*/vir^{Event2} genomic DNA will have a single 340bp band in the NE lane and three bands (340, 189 and 151bp) in the *AseI* lane: 340bp derived from the *VIR* allele and 189 and 151bp obtained by *AseI* digestion of the vir^{Event2} allele. Amplicons derived from vir^{Event2}/vir^{Event2} genomic DNA will have a single 340bp band in the NE lane and two bands (189 and 151bp) in the *AseI* lane. Therefore, this type of assay can be used to determine the *VIR* genotype of a DNA or RNA (via reverse-transcriptase PCR) sample and detect the heterozygous or homozygous presence of the vir^{Event2}mutation.

[0264] Alternatively, the Event 2 mutation can be genotyped by single nucleotide primer extension, thus not relying upon restriction enzyme recognition sequences or restriction digestion. As shown in **Fig. 13**, a primer can be designed so that its 3' terminal is complimentary to the nucleotide one base 3' of the polymorphic nucleotide. Single nucleotide primer extension is carried out with a mixture of dideoxyribonucleotides (ddATP, ddCTP, ddGTP, ddTTP), each labeled with a different fluorophore. For example, primer annealed to a VIR allele (G at the polymorphic position) could be extended by a single C tagged with FAM (**Fig. 13a**). Alternatively, primer annealed to a vir^{Event2} allele (T at the

polymorphic position) could be extended by a single A tagged with TAM (TAMRA) (**Fig. 13b**). Therefore, this type of assay can be used to determine the *VIR* genotype of a DNA or RNA (via reverse-transcriptase PCR) sample and detect the heterozygous or homozygous presence of the vir^{Event2} mutation.

Example 3: Differential Detection of Wild-type and Event 3 *VIR* Alleles

[0265] A subset of *VIR* exon 3 including the Event 3 point mutation is shown in **Fig. 14a**. The G-to-A point mutation is indicated by the lower case "a" in the figure panel. The Event 3 nonsense mutation creates an *AluI* restriction enzyme recognition sequence (boxed bases in **Fig. 14a**). As shown in the figure, PCR primers (denoted by arrows) can be designed to amplify the surrounding sequence so that the amplicon includes only one potential *AluI* site, and this site is only present on alleles including the vir^{Event3} nonsense mutation. Using the primers suggested in the figure, PCR amplification results in a 340bp amplicon. As shown in the prophetic example in **Fig. 14b**, amplicons can be split into two portions: the first portion is mock-treated without restriction enzyme (NE) and the second portion is digested with *AluI*. Following gel electrophoresis, all NE portions will have a single 340bp band. Amplicons derived from *VIR/VIR* genomic DNA will have a single 340bp band in both the NE and the *AluI* lanes. Amplicons derived from VIR/vir^{Event3} genomic DNA will have a single 340bp band in the NE lane and three bands (340, 108 and 232bp) in the *AluI* lane: 340bp derived from the *VIR* allele and 108 and 232bp obtained by *AluI* digestion of the vir^{Event3} allele. Amplicons derived from $vir^{Event3}/vir^{Event3}$ genomic DNA will have a single 340bp band in the NE lane and two bands (108 and 232bp) in the *AluI* lane. Therefore, this type of assay can be used to determine the *VIR* genotype of a DNA or RNA (via reverse-transcriptase PCR) sample and detect the heterozygous or homozygous presence of the vir^{Event3}mutation.

[0266] Alternatively, the Event 3 mutation can be genotyped by single nucleotide primer extension, thus not relying upon restriction enzyme recognition sequences or restriction digestion. As shown in **Fig. 15**, a primer can be designed so that its 3' terminal is complimentary to the nucleotide one base 5' of the polymorphic nucleotide. Single nucleotide primer extension is carried out with a mixture of dideoxyribonucleotides (ddATP, ddCTP, ddGTP, ddTTP), each labeled with a different fluorophore. For example, primer annealed to a VIR allele (G at the polymorphic position) could be extended by a single C tagged with FAM (**Fig. 15a**). Alternatively, primer annealed to a vir^{Event3} allele (A at the polymorphic position) could be extended by a single T tagged with TAM (TAMRA) (**Fig. 15b**). Therefore, this type of assay can be used to determine the *VIR* genotype of a DNA or

RNA (via reverse-transcriptase PCR) sample and detect the heterozygous or homozygous presence of the *vir*^{Event3}mutation.

Example 4: Differential Detection of Wild-type and Event 5 *VIR* Alleles

[0267] A subset of *VIR* exon 3 including the Event 5 rearrangement mutation is shown in **Fig. 16a**. The rearrangement creates a unique DNA sequence beginning at the vertical arrow in **Fig. 16a**. The same forward primer as shown in **Fig. 12** can be used in combination with a reverse primer unique to the Event 5 allele to generate a 137bp amplicon only from genomic DNA containing at least one Event 5 allele. A third reverse primer, as shown in **Fig. 12**, in combination with the common forward primer would generate a 340bp amplicon only from genomic DNA containing the VIR allele. The Event 5 mutation introduces a unique *AseI* restriction enzyme site in the 137bp amplicon that is not present in the 340bp VIR amplicon. As shown in the prophetic example in **Fig. 16b**, amplicons can be split into two portions: the first portion is mock-treated without restriction enzyme (NE) and the second portion is digested with *AseI*. Following gel electrophoresis, amplicons derived from *VIR/VIR* genomic DNA will have a single 340bp band in both the NE and the *AseI* lanes. Amplicons derived from *VIR/vir*^{Event5} genomic DNA will have a 340bp band and a 137bp band in the NE lane and three bands (340, 78 and 59bp) in the *AseI* lane: 340bp derived from the *VIR* allele and 78 and 59bp obtained by *AseI* digestion of the *vir*^{Event5} allele. Amplicons derived from *vir*^{Event5}*/vir*^{Event5} genomic DNA will have a single 137bp band in the NE lane and two bands (78 and 59bp) in the *AseI* lane. Therefore, this type of assay can be used to determine the *VIR* genotype of a DNA or RNA (via reverse-transcriptase PCR) sample and detect the heterozygous or homozygous presence of the *vir*^{Event5} mutation.

[0268] Alternatively, the Event 5 mutation can be genotyped by single nucleotide primer extension, thus not relying upon restriction enzyme recognition sequences or restriction digestion. As shown in **Fig. 17**, the sequence of *VIR* (**Fig. 17a**) and *vir*^{Event5} (**Fig. 17b**) diverge at the nucleotide denoted by the downward pointing arrow. A common primer can be designed so that its 3' terminal is complimentary to the nucleotide one base 3' of the polymorphic nucleotide and the sequence of the primer is complimentary to both *VIR* and *vir*^{Event5} sequence. Single nucleotide primer extension is carried out with a mixture of dideoxyribonucleotides (ddATP, ddCTP, ddGTP, ddTTP), each labeled with a different fluorophore. For example, primer annealed to a *VIR* allele (T at the first diverging position on the 3' to 5' strand shown in **Fig. 17a**)) could be extended by a single adenine tagged with FAM (**Fig. 17a**). Alternatively, primer annealed to a *vir*^{Event5} allele (C at the first diverging

position on the 3' to 5' strand shown in **Fig. 17b**)) could be extended by a single guanine tagged with TAM (TAMRA) (**Fig. 17b**). Therefore, this type of assay can be used to determine the *VIR* genotype of a DNA or RNA (via reverse-transcriptase PCR) sample and detect the heterozygous or homozygous presence of the vir^{Event5} mutation.

Example 5: Differential Detection of Wild-type, Event 1, and Event 4 *VIR* Alleles

[0269] The Event 1 mutation can be genotyped by single nucleotide primer extension, thus not relying upon restriction enzyme recognition sequences or restriction digestion. As shown in **Fig. 18**, a primer can be designed so that its 3' terminal is complimentary to the nucleotide one base 3' of the polymorphic nucleotide. Single nucleotide primer extension is carried out with a mixture of dideoxyribonucleotides (ddATP, ddCTP, ddGTP, ddTTP), each labeled with a different fluorophore. For example, primer annealed to a VIR allele (A at the polymorphic position) could be extended by a single thymine tagged with FAM (**Fig. 18a**). Alternatively, primer annealed to a vir^{Event1} allele (T at the polymorphic position) could be extended by a single adenine tagged with TAM (TAMRA) (**Fig. 18b**). Therefore, this type of assay can be used to determine the *VIR* genotype of a DNA or RNA (via reverse-transcriptase PCR) sample and detect the heterozygous or homozygous presence of the vir^{Event1} mutation.

[0270] Similarly, the Event 4 mutation can be differentially detected by single nucleotide primer extension. The vir^{Event4} mutation is a deletion of 2 bases (TA) relative to *VIR*. These two bases are boxed in **Fig. 19a**. For example, primer annealed to a *VIR* allele one base 3' to the TA sequence deleted in vir^{Event4} could be extended by a single thymine tagged with FAM (**Fig. 19a**). Alternatively, the same primer annealed to a vir^{Event4} allele could be extended by a single adenine tagged with TAM (TAMRA) (**Fig. 19b**). Therefore, this type of assay can be used to determine the *VIR* genotype of a DNA or RNA (via reverse-transcriptase PCR) sample and detect the heterozygous or homozygous presence of the vir^{Event4} mutation.

[0271] Thus, all known naturally occurring variations of the *VIR* locus can be detected. Consequently, the genotype of an oil palm plant at the *VIR* locus can be determined and the fruit color phenotype predicted. Moreover, additional naturally occurring or induced variations at the *VIR* locus can be detected using methods described herein or known in the art to predict the fruit color phenotype of an oil palm plant.

[0272] The term "a" or "an" is intended to mean "one or more." The term "comprise" and variations thereof such as "comprises" and "comprising," when preceding the recitation of a step or an element, are intended to mean that the addition of further steps or elements is optional and not excluded. All patents, patent applications, and other published reference

materials cited in this specification are hereby incorporated herein by reference in their entirety.

1. A method for determining a fruit color phenotype of an oil palm plant, the method comprising,
providing a sample from the oil palm plant or seed; and
detecting presence or absence of a VIR gene alteration in a genomic region corresponding to SEQ ID NO: l that confers a virescens phenotype to fruit of the oil palm plant.

2. The method of claim 1, wherein the alteration comprises a nucleotide change that results in an encoded amino acid change, a splice site or other alteration resulting in a change in splicing, and/or a stop codon.

3. The method of claim 1, wherein the alteration comprises a premature stop codon so as to generate a truncated protein compared to the protein encoded by SEQ ID NO:4.

4. The method of claim 1, wherein the alteration is a dominant negative mutation.

5. The method of claim 1, wherein the alteration is selected from the group corresponding to SEQ ID NOS:7, 9, 11, 13, or 15, or the alteration produces a VIR allele that encodes an amino acid sequence selected from the group consisting of SEQ ID NOS:5, 8, 10, 12, and 14.

6. The method of claim 1, wherein the VIR gene encodes (i) a polypeptide at least 95% identical to SEQ ID NO:4 or (ii) a polypeptide comprising at least 100, 125, 150, 175, 200, or 225 contiguous amino acids that are at least 95% identical to a corresponding fragment of the SEQ ID NO:4.

7. The method of claim 1, comprising detecting a presence or absence of a genetic marker linked to the alteration within about 1, 10, 20, 50, 100, 200, 500, 1000 kb, or 2000 kb of the genomic region.

8. The method of claim 1, wherein the plant is less than 5 years old.

9. The method of claim 1, wherein the plant is less than one year old.

10. The method of claim 1, wherein the plant is an oil palm.

11. The method of claim 1, wherein the method further comprises predicting a shell thickness phenotype by detecting the presence or absence of a nucleic acid sequence associated with a dura, tenera, or pisifera phenotype.

12. The method of claim 11, wherein the shell thickness phenotype is predicted from the same sample as the fruit color phenotype.

13. The method of claim 1, further comprising selecting the plant or seed for cultivation if the plant is predicted to have the virescens phenotype.

14. The method of claim 13, wherein the plant or seed is discarded if the plant or seed is not predicted to have the virescens phenotype.

15. A method for segregating a plurality of oil palm plants into different categories based on predicted fruit color phenotype, the method comprising,
providing a sample from each plant in the plurality of plants;
detecting a presence or absence of a VIR gene alteration in a genomic region corresponding to SEQ ID NO:l that confers a virescens phenotype to fruit of the oil palm plants; and
segregating the plants into groups based on the predicted virescens phenotype of the plants.

16. The method of claim 15, wherein the alteration comprises a premature stop codon so as to generate a truncated protein compared to a protein encoded by SEQ ID NO:4.

17. The method of claim 15, wherein the alteration is a dominant negative mutation.

18. The method of claim 15, wherein the alteration is selected from the group corresponding to SEQ ID NOS:7, 9, 11, 13, or 15, or the alteration produces a VIR allele that encodes an amino acid sequence selected from the group consisting of SEQ ID NOS:5, 8, 10, 12, and 14.

19. The method of claim 15, wherein the VIR gene encodes (i) a polypeptide at least 95% identical to SEQ ID NO:4 or (ii) a polypeptide comprising at least 100, 125, 150, 175, 200, or 225 contiguous amino acids that are at least 95% identical to a corresponding fragment of SEQ ID NO:4.

20. The method of claim 15, comprising detecting a presence or absence of a genetic marker linked to the alteration within 1, 10, 20, 50, 100, 200, 500, 1000, or 2000 kb of the genomic region.

21. The method of claim 15, wherein the plant is less than 5 years old.

22. The method of claim 15, wherein the plant is less than one year old.

23. The method of claim 15, wherein the method further comprises predicting a shell thickness phenotype by detecting the presence or absence of a nucleic acid sequence associated with a dura, tenera, or pisifera phenotype.

24. The method of claim 23, wherein the shell thickness phenotype is predicted from the same sample as the fruit color phenotype in each of the plurality of plants.

25. A method for determining a fruit color phenotype of an oil palm plant, the method comprising,

providing a sample from a plant or seed; and detecting presence or absence of an alteration in a VIR polypeptide corresponding to SEQ ID NO:4 that confers a virescens phenotype to fruit of the oil palm plant, wherein the presence of the alteration predicts the presence of the virescens phenotype.

26. An isolated nucleic acid comprising a polynucleotide encoding a polypeptide comprising a sequence at least 95 % identical to SEQ ID NO:4.

27. An oil palm plant comprising a heterologous expression cassette, the expression cassette comprising a heterologous promoter operably linked to a polynucleotide encoding (i) a polypeptide comprising a sequence at least 95% identical to SEQ ID NO:4 or (ii) a polypeptide comprising at least 100, 125, 150, 175, 200, or 225 contiguous amino acids that are at least 95% identical to a corresponding fragment of SEQ ID NO:4.

28. The plant of claim 27, wherein the polypeptide comprises SEQ ID NO:4.

29. A plant having a virescens phenotype, the plant comprising the expression cassette of any of claims 27-28.

30. A plant having a nigrescens phenotype, the plant comprising the expression cassette of any of claims 27-28.

31. An isolated nucleic acid comprising an expression cassette, the expression cassette comprising a heterologous promoter operably linked to a polynucleotide encoding a polypeptide comprising (i) a sequence at least 95% identical to SEQ ID NO:4 or (ii) a polypeptide comprising at least 100, 125, 150, 175, 200, or 225 contiguous amino acids that are at least 95% identical to a corresponding fragment of SEQ ID NO:4.

32. An isolated nucleic acid comprising an expression cassette comprising a promoter operably linked to a polynucleotide, which polynucleotide, when expressed in the plant, reduces expression of a VIR polypeptide corresponding to SEQ ID NO: 4 in a plant (compared to a control plant lacking the expression cassette).

33. The nucleic acid of claim 32, wherein the polynucleotide comprises at least 20 contiguous nucleotides, the complement, or the reverse complement thereof, of an

endogenous nucleic acid encoding a VIR polypeptide at least 95% identical to SEQ ID NO:4, such that expression of the polynucleotide in a plant inhibits expression of the endogenous VIR gene.

34. The nucleic acid of claim 33, wherein the polynucleotide comprises at least 20, 30, 40, 50, 75, or 100 contiguous nucleotides, the complement, or the reverse complement thereof, of SEQ ID NO: 1 or SEQ ID NO:3.

35. The nucleic acid of any of claims 32-34, wherein the polynucleotide encodes an siRNA, antisense polynucleotide, a microRNA, or a sense suppression nucleic acid, which when expressed in a plant suppresses expression of an endogenous VIR gene.

36. An oil palm plant having a virescens phenotype, the plant comprising the expression cassette of any of claims 32-35.

37. An isolated nucleic acid comprising an expression cassette comprising a promoter operably linked to a polynucleotide encoding a polypeptide comprising an amino acid sequence at least 95% identical to at least 100, 125, 150, 175, 200, or 225 contiguous amino acids of SEQ ID NO:4 but lacking at least a corresponding 3' terminal portion {e.g., at least 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150 carboxyl terminal amino acids) of SEQ ID NO:4.

38. The nucleic acid of claim 37, wherein the polypeptide comprises the polypeptide encoded by SEQ ID NOS:7, 9, 11, 13, or 15.

39. An oil palm plant having a virescens phenotype, the plant comprising the expression cassette of any of claims 37 or 38.

40. A method of making the oil palm plant of any of claims 27-30, 36, or 39, the method comprising introducing the expression cassette into the plant.

41. A method of cultivating the oil palm plant of any of claims 27-30, 36, or 39.

SEQUENCE LISTING

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<120> Gene Controlling Fruit Color Phenotype in Palm

<130> 96380-891080

<140> WO Not yet assigned
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<150> US 61/809,767
<151> 2013-04-08

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including preicted 5' and 3' UTR

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20 25 30

Lys Tyr Gly Glu Gly Asn Trp Arg His Val Pro Gln Arg Ala Gly Leu

35 40 45

Arg Arg Cys Arg Lys Ser Cys Arg Leu Arg Trp Leu Asn Tyr Leu Ser

50 55 60

Pro Arg Ile Asn Arg Glu Lys Phe Ser Glu Glu Glu Thr Asp Leu Ile

65 70 75 80

Ile Arg Leu His Lys Leu Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly

85 90 95

Arg Leu Pro Gly Arg Thr Ala Asn Asp Ile Lys Asn Tyr Trp Asn Thr

100 105 110

His Leu Gly Lys Lys Val Glu Val Glu Asn Lys Lys Ala Glu Pro Ser

115 120 125

Ala Asp Ala Lys Val Ile Lys Pro Arg Pro Trp Lys Val Pro Leu Gln

130 135 140

Trp Leu Trp Ser Glu Asp Gln Gln Ser Cys Gly Ser Gln Gln Pro Gln

145 150 155 160

Glu Lys Phe Gly Ile Pro Glu Leu Pro Thr Ile Ser Glu Asn Asp Glu

165 170 175

Ala Trp Leu Asn Cys Ile Met Asn Gly Asp Arg Glu Asn Ser Ala Val

180 185 190

Pro Asp Val Gly Asn Gly Ser Thr Met Asn Leu Gln Asn Glu Phe Gly

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35 40 45

Arg Arg Cys Arg Lys Ser Cys Arg Leu Arg Trp Leu Asn Tyr Leu Ser
50 55 60

Pro Arg Ile Asn Arg Glu Lys Phe Ser Glu Glu Glu Thr Asp Leu Ile
65 70 75 80

Ile Arg Leu His Lys Leu Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly
85 90 95

Arg Leu Pro Gly Arg Thr Ala Asn Asp Ile Lys Asn Tyr Trp Asn Thr
100 105 110

His Leu Gly Lys Lys Val Glu Val Glu Asn Lys Lys Ala Glu Pro Ser
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Ala Asp Ala Lys Val Ile Lys Pro Arg Pro Trp Lys Val Pro Leu Gln
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Trp Leu Trp Ser Glu Asp Gln Gln Ser Cys Gly Ser Gln Gln Pro Gln
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Glu Lys Phe Gly Ile Pro Glu Leu Pro Thr Ile Ser Glu Asn Asp Glu
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Ala Trp Leu Asn Cys Ile Met Asn Gly Asp Arg Glu Asn Ser Ala Val
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<211> 711

<212> DNA

<213> Elaeis guineensis

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<211> 923

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<213> Artificial Sequence

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gaagaggagg acaggcttct gagaaagtgc gttgagaaat atggcgaagg gaactggcgc 120
catgttcccc aaagggcagg cctcagaagg tgccgaaaga gctgccgact acggtggttg 180
aactatctca gccctaggat caacagggag aaattttcgg aggaagaaac agatcttatc 240
atcaggcttc ataagctctt gggcaacagg tggtcattaa ttgcaggtag gcttccaggc 300
aggacagcaa atgacatcaa gaactactgg aacactcacc tgggcaagaa agtagaagtt 360
gaaaacaaga aggcggagcc cagtgctgat gccaaagtaa ttaagccacg gccatggaaa 420
gtaccgttgc aatggttatg gtcagaagat cagcaatcat gtggaagcca gcagccgcaa 480
gaaaagtttg ggataccaga actaccgaca atctcagaga acgatgaagc gtggctgaat 540
tgtataatga atggagatag agagaacagt gcagtgccag acgttggaaa cgggagcaca 600
atgaacctgc agaatgaatt tggaatcgga ggcttggagg aaaattgaga tggggcagtg 660
tttctggaag gagttctagg atgggatgac ttgctttggg ccactatata gtgctcatat 720
atggtagtgc aatagttgcc attataagtt gtttcgaact ttaatgctcc tgaaattccc 780
atgcaagtat ttagagcttc atatcctaca aaaagacagg aaacgagacc ttgaaaaaag 840
actcagtacc agaaggcatc cacttattga ttgcttttat acttgcaaca tgaaggaagc 900
acgctttctc accaaaaaaa aaa 923

<210> 8
<211> 205
<212> PRT
<213> Elaeis guineensis

<220>
<223> VIR mutant #2, VIR Event 2 mutation, SNP_2AA

<400> 8
Met Gly Asn Leu Arg Ala Glu Val Gln Arg Pro Ala Gly Val Arg Lys
1 5 10 15
Gly Ala Trp Ser Glu Glu Glu Asp Arg Leu Leu Arg Lys Cys Val Glu
20 25 30
Lys Tyr Gly Glu Gly Asn Trp Arg His Val Pro Gln Arg Ala Gly Leu
35 40 45
Arg Arg Cys Arg Lys Ser Cys Arg Leu Arg Trp Leu Asn Tyr Leu Ser
50 55 60

Pro Arg Ile Asn Arg Glu Lys Phe Ser Glu Glu Glu Thr Asp Leu Ile
65 70 75 80
Ile Arg Leu His Lys Leu Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly
85 90 95
Arg Leu Pro Gly Arg Thr Ala Asn Asp Ile Lys Asn Tyr Trp Asn Thr
100 105 110
His Leu Gly Lys Lys Val Glu Val Glu Asn Lys Lys Ala Glu Pro Ser
115 120 125
Ala Asp Ala Lys Val Ile Lys Pro Arg Pro Trp Lys Val Pro Leu Gln
130 135 140
Trp Leu Trp Ser Glu Asp Gln Gln Ser Cys Gly Ser Gln Gln Pro Gln
145 150 155 160
Glu Lys Phe Gly Ile Pro Glu Leu Pro Thr Ile Ser Glu Asn Asp Glu
165 170 175
Ala Trp Leu Asn Cys Ile Met Asn Gly Asp Arg Glu Asn Ser Ala Val
180 185 190
Pro Asp Val Gly Asn Gly Ser Thr Met Asn Leu Gln Asn
195 200 205

<210> 9
<211> 923
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic reconstructed complete coding sequence of Elaeis guineensis VIR mutant #2, reconstructed complete coding sequence of VIR Event 2 mutation, SNP 2

<400> 9
atgggtaatt tgcgtgccga agtccaacgt ccagctggtg ttcgcaaagg agcatggagt 60
gaagaggagg acaggcttct gagaaagtgc gttgagaaat atggcgaagg gaactggcgc 120
catgttcccc aaagggcagg cctcagaagg tgccgaaaga gctgccgact acggtggttg 180

aactatctca gccctaggat caacagggag aaattttcgg aggaagaaac agatcttatc 240
atcaggcttc ataagctctt gggcaacagg tggtcattaa ttgcaggtag gcttccaggc 300
aggacagcaa atgacatcaa gaactactgg aacactcacc tgggcaagaa agtagaagtt 360
gaaaacaaga aggcggagcc cagtgctgat gccaaagtaa ttaagccacg gccatggaaa 420
gtaccgttgc aatggttatg gtcagaagat cagcaatcat gtggaagcca gcagccgcaa 480
gaaaagtttg ggataccaga actaccgaca atctcagaga acgatgaagc gtggctgaat 540
tgtataatga atggagatag agagaacagt gcagtgccag acgttggaaa cgggagcaca 600
atgaacctgc agaattaatt tggaatcgga ggcttggagg aaaatagaga tggggcagtg 660
tttctggaag gagttctagg atgggatgac ttgctttggg ccactatata gtgctcatat 720
atggtagtgc aatagttgcc attataagtt gtttcgaact ttaatgctcc tgaaattccc 780
atgcaagtat ttagagcttc atatcctaca aaaagacagg aaacgagacc ttgaaaaaag 840
actcagtacc agaaggcatc cacttattga ttgcttttat acttgcaaca tgaaggaagc 900
acgctttctc accaaaaaaa aaa 923

<210> 10
<211> 177
<212> PRT
<213> Elaeis guineensis

<220>
<223> VIR mutant #3, VIR Event 3 mutation, SNP_3AA

<400> 10
Met Gly Asn Leu Arg Ala Glu Val Gln Arg Pro Ala Gly Val Arg Lys
1 5 10 15
Gly Ala Trp Ser Glu Glu Glu Asp Arg Leu Leu Arg Lys Cys Val Glu
20 25 30
Lys Tyr Gly Glu Gly Asn Trp Arg His Val Pro Gln Arg Ala Gly Leu
35 40 45
Arg Arg Cys Arg Lys Ser Cys Arg Leu Arg Trp Leu Asn Tyr Leu Ser
50 55 60
Pro Arg Ile Asn Arg Glu Lys Phe Ser Glu Glu Glu Thr Asp Leu Ile
65 70 75 80
Ile Arg Leu His Lys Leu Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly

85 90 95

Arg Leu Pro Gly Arg Thr Ala Asn Asp Ile Lys Asn Tyr Trp Asn Thr

100 105 110

His Leu Gly Lys Lys Val Glu Val Glu Asn Lys Lys Ala Glu Pro Ser

115 120 125

Ala Asp Ala Lys Val Ile Lys Pro Arg Pro Trp Lys Val Pro Leu Gln

130 135 140

Trp Leu Trp Ser Glu Asp Gln Gln Ser Cys Gly Ser Gln Gln Pro Gln

145 150 155 160

Glu Lys Phe Gly Ile Pro Glu Leu Pro Thr Ile Ser Glu Asn Asp Glu

165 170 175

Ala

<210> 11

<211> 923

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic reconstructed complete coding sequence of Elaeis guineensis VIR mutant #3, reconstructed complete coding sequence of VIR Event 3 mutation, SNP 3

<400> 11

atgggtaatt tgcgtgccga agtccaacgt ccagctggtg ttcgcaaagg agcatggagt 60

gaagaggagg acaggcttct gagaaagtgc gttgagaaat atggcgaagg gaactggcgc 120

catgttcccc aaagggcagg cctcagaagg tgccgaaaga gctgccgact acggtggttg 180

aactatctca gccctaggat caacagggag aaattttcgg aggaagaaac agatcttatc 240

atcaggcttc ataagctctt gggcaacagg tggtcattaa ttgcaggtag gcttccaggc 300

aggacagcaa atgacatcaa gaactactgg aacactcacc tgggcaagaa agtagaagtt 360

gaaaacaaga aggcggagcc cagtgctgat gccaaagtaa ttaagccacg gccatggaaa 420

gtaccgttgc aatggttatg gtcagaagat cagcaatcat gtggaagcca gcagccgcaa 480

gaaaagtttg ggataccaga actaccgaca atctcagaga acgatgaagc gtagctgaat 540

tgtataatga atggagatag agagaacagt gcagtgccag acgttggaaa cgggagcaca 600
atgaacctgc agaatgaatt tggaatcgga ggcttggagg aaaatagaga tggggcagtg 660
tttctggaag gagttctagg atgggatgac ttgctttggg ccactatata gtgctcatat 720
atggtagtgc aatagttgcc attataagtt gtttcgaact ttaatgctcc tgaaattccc 780
atgcaagtat ttagagcttc atatcctaca aaaagacagg aaacgagacc ttgaaaaaag 840
actcagtacc agaaggcatc cacttattga ttgcttttat acttgcaaca tgaaggaagc 900
acgctttctc accaaaaaaa aaa 923

<210> 12
<211> 185
<212> PRT
<213> Elaeis guineensis

<220>
<223> VIR mutant #4, VIR Event 4 mutation, SNP_4AA

<400> 12
Met Gly Asn Leu Arg Ala Glu Val Gln Arg Pro Ala Gly Val Arg Lys
1 5 10 15
Gly Ala Trp Ser Glu Glu Glu Asp Arg Leu Leu Arg Lys Cys Val Glu
20 25 30
Lys Tyr Gly Glu Gly Asn Trp Arg His Val Pro Gln Arg Ala Gly Leu
35 40 45
Arg Arg Cys Arg Lys Ser Cys Arg Leu Arg Trp Leu Asn Tyr Leu Ser
50 55 60
Pro Arg Ile Asn Arg Glu Lys Phe Ser Glu Glu Glu Thr Asp Leu Ile
65 70 75 80
Ile Arg Leu His Lys Leu Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly
85 90 95
Arg Leu Pro Gly Arg Thr Ala Asn Asp Ile Lys Asn Tyr Trp Asn Thr
100 105 110
His Leu Gly Lys Lys Val Glu Val Glu Asn Lys Lys Ala Glu Pro Ser
115 120 125
Ala Asp Ala Lys Val Ile Lys Pro Arg Pro Trp Lys Val Pro Leu Gln

130 135 140

Trp Leu Trp Ser Glu Asp Gln Gln Ser Cys Gly Ser Gln Gln Pro Gln

145 150 155 160

Glu Lys Phe Gly Ile Pro Glu Leu Pro Thr Ile Ser Glu Asn Asp Glu

165 170 175

Ala Trp Leu Asn Cys Asn Glu Trp Arg

180 185

<210> 13

<211> 921

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic reconstructed complete coding sequence of Elaeis guineensis VIR mutant #4, reconstructed complete coding sequence of VIR Event 4 mutation, SNP 4

<400> 13

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gaagaggagg acaggcttct gagaaagtgc gttgagaaat atggcgaagg gaactggcgc 120

catgttcccc aaagggcagg cctcagaagg tgccgaaaga gctgccgact acggtggttg 180

aactatctca gccctaggat caacagggag aaattttcgg aggaagaaac agatcttatc 240

atcaggcttc ataagctctt gggcaacagg tggtcattaa ttgcaggtag gcttccaggc 300

aggacagcaa atgacatcaa gaactactgg aacactcacc tgggcaagaa agtagaagtt 360

gaaaacaaga aggcggagcc cagtgctgat gccaaagtaa ttaagccacg gccatggaaa 420

gtaccgttgc aatggttatg gtcagaagat cagcaatcat gtggaagcca gcagccgcaa 480

gaaaagtttg ggataccaga actaccgaca atctcagaga acgatgaagc gtggctgaat 540

tgtaatgaat ggagatagag agaacagtgc agtgccagac gttggaaacg ggagcacaat 600

gaacctgcag aatgaatttg gaatcggagg cttggaggaa aatagagatg gggcagtgtt 660

tctggaagga gttctaggat gggatgactt gctttgggcc actatatagt gctcatatat 720

ggtagtgcaa tagttgccat tataagttgt ttcgaacttt aatgctcctg aaattcccat 780

gcaagtattt agagcttcat atcctacaaa aagacaggaa acgagacctt gaaaaaagac 840

tcagtaccag aaggcatcca cttattgatt gcttttatac ttgcaacatg aaggaagcac 900

gctttctcac caaaaaaaaa a 921

<210> 14

<211> 162

<212> PRT

<213> Elaeis guineensis

<220>

<223> VIR mutant #5, VIR Event 5 mutation, SNP_5AA

<400> 14

Met Gly Asn Leu Arg Ala Glu Val Gln Arg Pro Ala Gly Val Arg Lys
1 5 10 15

Gly Ala Trp Ser Glu Glu Glu Asp Arg Leu Leu Arg Lys Cys Val Glu
20 25 30

Lys Tyr Gly Glu Gly Asn Trp Arg His Val Pro Gln Arg Ala Gly Leu
35 40 45

Arg Arg Cys Arg Lys Ser Cys Arg Leu Arg Trp Leu Asn Tyr Leu Ser
50 55 60

Pro Arg Ile Asn Arg Glu Lys Phe Ser Glu Glu Glu Thr Asp Leu Ile
65 70 75 80

Ile Arg Leu His Lys Leu Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly
85 90 95

Arg Leu Pro Gly Arg Thr Ala Asn Asp Ile Lys Asn Tyr Trp Asn Thr
100 105 110

His Leu Gly Lys Lys Val Glu Val Glu Asn Lys Lys Ala Glu Pro Ser
115 120 125

Ala Asp Ala Lys Val Ile Lys Pro Arg Pro Trp Lys Val Pro Leu Gln
130 135 140

Trp Leu Trp Ser Glu Asp Gln Gln Ser Cys Gly Ser Gln Gln Pro Gln
145 150 155 160

Glu Asp

<210> 15

<211> 761

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic reconstructed complete coding sequence of Elaeis guineensis VIR mutant #5, reconstructed complete coding sequence of VIR Event 5 mutation, SNP 5

<400> 15

atgggtaatt tgcgtgccga agtccaacgt ccagctggtg ttcgcaaagg agcatggagt 60

gaagaggagg acaggcttct gagaaagtgc gttgagaaat atggcgaagg gaactggcgc 120

catgttcccc aaagggcagg cctcagaagg tgccgaaaga gctgccgact acggtggttg 180

aactatctca gccctaggat caacagggag aaattttcgg aggaagaaac agatcttatc 240

atcaggcttc ataagctctt gggcaacagg tggtcattaa ttgcaggtag gcttccaggc 300

aggacagcaa atgacatcaa gaactactgg aacactcacc tgggcaagaa agtagaagtt 360

gaaaacaaga aggcggagcc cagtgctgat gccaaagtaa ttaagccacg gccatggaaa 420

gtaccgttgc aatggttatg gtcagaagat cagcaatcat gtggaagcca gcagccgcaa 480

gaagattaat gctttgggcc actatatagt gcttatatat gggatgactt gctttgggcc 540

actatatagt gcttatatat ggtagtgcaa tagttgccat tataagttgt ttcgaacttt 600

aatgctcctg aaattcccat gcaagtattt agagcttcat atcctacaaa aagacaggaa 660

acgagacctt gaaaaaagac tcagtaccag aaggcatcca cttattgatt gcttttatac 720

ttgcaacatg aaggaagcac gctttctcac caaaaaaaaa a 761

<210> 16

<211> 3973

<212> DNA

<213> Elaeis guineensis

<220>

<223> genomic interval of VIR gene in virescens palm, genomic region DNA from mutant palm

<400> 16

atacaaccct aacccctgct ggaggatacg cccccacagc attggatttg atgaatccac 60

caccatgccc caggagagga aaaatttttg acgttgttcc tggactaggt ccatctcctt 120

gacaagaact ataactcatc aagcatggat ctccccattt tcatcgccgc tccgtaatat 180

atttctactt caagggccgg cttatggtgg accaataggt gcttcatgca aaggatcgag 240

aagctactga ccatatccac gcaagtgctt ctgcgcgcgt acgtggaacc acaagctagc 300

ccacgtatgt ccccagtctt aaccgaacaa atgcgctgta tctgggtgct tataaagcat 360

catcgagacc atgaagtaac acacgcttac agagtatctt gcaacttgaa attgcagtga 420

ataagctaaa gttctggcct caatgggtaa tttgcgtgcc gaagtccaac gtccagctgg 480

tgttcgcaaa ggagcatgga gtgaagagga ggacaggctt ctgagaaagt gcgttgagaa 540

atatggcgaa gggaactggc gccatgttcc ccaaagggca ggtaagcgat tccttgctta 600

ccgacatttg tggcaaagca aatcgcaaaa ccttttctat cctgaactga acacacaaat 660

gatcaaaatt gctcttcaat tcaacaagta tccaagcgca agcgtatgaa ggagctgttg 720

tcttctcatc ccagcacagc ctaactcctg attaccttgt ctcacatctt tacagaataa 780

agctgaagtc tgttactcat gggtattagt aacaagagca actctatgaa accctgaata 840

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aatgcttcat gccgctgatc aacaaaaggt tcattatgtt tatgtggcaa aagaggatta 1620

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agctcgtgct atgtgtcttg tttgcttcat agactgtcac actcgaaccc tctagatagg 1920

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cgcggtccac agaccaggcc gtggaccacc cggtccatgg tggaccgggg tacaggccca 3960

gatgtggtgc ctc 3973

<210> 17
<211> 1956592
<212> DNA
<213> Elaeis guineensis

<220>
<223> locus containing VIR gene, genomic interval with
5' and 3' flanking sequence

<220>
<221> modified_base
<222> (1)...(1956592)
<223> n = g, a, c or t

<400> 17
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gtagatttta catcgatgat ccaagctgta gaatataatc aattacttta aaactgcttg 180
catattaaaa attatataat ttgaagattt ctaatttata tatcaagtga tcaaaaaata 240
taatctaatt taattttatt taaactagat ctaaatcata taatttttt gtgtacaaat 300
agttttgagt tagtaaatca cattcaatga cttggatcat tgacgtagga tctttattat 360
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<213> Artificial Sequence

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<223> synthetic genomic VIR gene PCR amplification
forward primer

<400> 18
gcgtacgtgg aaccacaa 18

<210> 19
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic genomic VIR gene PCR amplification

reverse primer

<400> 19
ctccattctg gtgagaaagc gt 22

<210> 20
<211> 923
<212> DNA
<213> Elaeis guineensis

<220>
<223> wild-type (nigrescens) VIR cDNA

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<221> exon
<222> (269)...(923)
<223> exon 3

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aactatctca gccctaggat caacagggag aaattttcgg aggaagaaac agatcttatc 240
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<211> 654
<212> DNA
<213> Elaeis guineensis

<220>
<223> VIR Event 1 exon 3 sequence

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tgccaaagta attaagccac ggccatggaa agtaccgttg caatggttat ggtcagaaga 180
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tgtttcgaac tttaatgctc ctgaaattcc catgcaagta tttagagctt catatcctac 540
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attgctttta tacttgcaac atgaaggaag cacgctttct caccaaaaaa aaaa 654

<210> 22
<211> 654
<212> DNA
<213> Elaeis guineensis

<220>
<223> VIR Event 2 exon 3 sequence

<400> 22
gtggtcatta attgcaggta ggcttccagg caggacagca aatgacatca agaactactg 60
gaacactcac ctgggcaaga aagtagaagt tgaaaacaag aaggcggagc ccagtgctga 120

tgccaaagta attaagccac ggccatggaa agtaccgttg caatggttat ggtcagaaga 180
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<210> 23
<211> 654
<212> DNA
<213> Elaeis guineensis

<220>
<223> VIR Event 3 exon 3 sequence

<400> 23
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gaacactcac ctgggcaaga aagtagaagt tgaaaacaag aaggcggagc ccagtgctga 120
tgccaaagta attaagccac ggccatggaa agtaccgttg caatggttat ggtcagaaga 180
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<210> 24
<211> 652
<212> DNA

<213> Elaeis guineensis

<220>

<223> VIR Event 4 exon 3 sequence

<400> 24

gtggtcatta attgcaggta ggcttccagg caggacagca aatgacatca agaactactg 60

gaacactcac ctgggcaaga aagtagaagt tgaaaacaag aaggcggagc ccagtgctga 120

tgccaaagta attaagccac ggccatggaa agtaccgttg caatggttat ggtcagaaga 180

tcagcaatca tgtggaagcc agcagccgca agaaaagttt gggataccag aactaccgac 240

aatctcagag aacgatgaag cgtggctgaa ttgtaatgaa tggagataga gagaacagtg 300

cagtgccaga cgttggaaac gggagcacaa tgaacctgca gaatgaattt ggaatcggag 360

gcttggagga aaatagagat ggggcagtgt ttctggaagg agttctagga tgggatgact 420

tgctttgggc cactatatag tgctcatata tggtagtgca atagttgcca ttataagttg 480

tttcgaactt taatgctcct gaaattccca tgcaagtatt tagagcttca tatcctacaa 540

aaagacagga aacgagacct tgaaaaaaga ctcagtacca gaaggcatcc acttattgat 600

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<210> 25

<211> 304

<212> DNA

<213> Elaeis guineensis

<220>

<223> VIR Event 5 exon 3 sequence

<400> 25

gtggtcatta attgcaggta ggcttccagg caggacagca aatgacatca agaactactg 60

gaacactcac ctgggcaaga aagtagaagt tgaaaacaag aaggcggagc ccagtgctga 120

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tcagcaatca tgtggaagcc agcagccgca agaagattaa tgctttgggc cactatatag 240

tgcttatata tgggatgact tgctttgggc cactatatag tgcttatata tggtagtgca 300

atag 304

<210> 26

<211> 86

<212> PRT

<213> Elaeis guineensis

<220>

<221> DOMAIN

<222> (1)...(86)

<223> wild-type VIR carboxy-terminal region, activation domain

<400> 26

Gln Gln Ser Cys Gly Ser Gln Gln Pro Gln Glu Lys Phe Gly Ile Pro
1 5 10 15

Glu Leu Pro Thr Ile Ser Glu Asn Asp Glu Ala Trp Leu Asn Cys Ile
20 25 30

Met Asn Gly Asp Arg Glu Asn Ser Ala Val Pro Asp Val Gly Asn Gly
35 40 45

Ser Thr Met Asn Leu Gln Asn Glu Phe Gly Ile Gly Gly Leu Glu Glu
50 55 60

Asn Arg Asp Gly Ala Val Phe Leu Glu Gly Val Leu Gly Trp Asp Asp
65 70 75 80

Leu Leu Trp Ala Thr Ile
85

<210> 27

<211> 65

<212> PRT

<213> Elaeis guineensis

<220>

<221> DOMAIN

<222> (1)...(65)

<223> Event 1 VIR mutant carboxy-terminal region,

activation domain premature termination by
nonsense point mutation

<400> 27
Gln Gln Ser Cys Gly Ser Gln Gln Pro Gln Glu Lys Phe Gly Ile Pro
1 5 10 15
Glu Leu Pro Thr Ile Ser Glu Asn Asp Glu Ala Trp Leu Asn Cys Ile
20 25 30
Met Asn Gly Asp Arg Glu Asn Ser Ala Val Pro Asp Val Gly Asn Gly
35 40 45
Ser Thr Met Asn Leu Gln Asn Glu Phe Gly Ile Gly Gly Leu Glu Glu
50 55 60
Asn
65

<210> 28
<211> 55
<212> PRT
<213> Elaeis guineensis

<220>
<221> DOMAIN
<222> (1)...(55)
<223> Event 2 VIR mutant carboxy-terminal region,
activation domain premature termination by
nonsense point mutation

<400> 28
Gln Gln Ser Cys Gly Ser Gln Gln Pro Gln Glu Lys Phe Gly Ile Pro
1 5 10 15
Glu Leu Pro Thr Ile Ser Glu Asn Asp Glu Ala Trp Leu Asn Cys Ile
20 25 30
Met Asn Gly Asp Arg Glu Asn Ser Ala Val Pro Asp Val Gly Asn Gly

35 40 45

Ser Thr Met Asn Leu Gln Asn

50 55

<210> 29

<211> 27

<212> PRT

<213> Elaeis guineensis

<220>

<221> DOMAIN

<222> (1)...(27)

<223> Event 3 VIR mutant carboxy-terminal region,
activation domain premature termination by
nonsense point mutation

<400> 29

Gln Gln Ser Cys Gly Ser Gln Gln Pro Gln Glu Lys Phe Gly Ile Pro

1 5 10 15

Glu Leu Pro Thr Ile Ser Glu Asn Asp Glu Ala

20 25

<210> 30

<211> 35

<212> PRT

<213> Elaeis guineensis

<220>

<221> DOMAIN

<222> (1)...(35)

<223> Event 4 VIR mutant carboxy-terminal region,
activation domain premature termination by

frameshift deletion

<400> 30
Gln Gln Ser Cys Gly Ser Gln Gln Pro Gln Glu Lys Phe Gly Ile Pro
1 5 10 15
Glu Leu Pro Thr Ile Ser Glu Asn Asp Glu Ala Trp Leu Asn Cys Asn
20 25 30
Glu Trp Arg
35

<210> 31
<211> 12
<212> PRT
<213> Elaeis guineensis

<220>
<221> DOMAIN
<222> (1)...(12)
<223> Event 5 VIR mutant carboxy-terminal region,
activation domain premature termination by
rearrangement

<400> 31
Gln Gln Ser Cys Gly Ser Gln Gln Pro Gln Glu Asp
1 5 10

<210> 32
<211> 112
<212> PRT
<213> Zea mays

<220>

<221> DOMAIN

<222> (1)...(112)

<223> R2 and R3 domians of MYB protein (Zm_m_C1)

<400> 32

Met Gly Arg Arg Ala Cys Cys Ala Lys Glu Gly Val Lys Arg Gly Ala
1 5 10 15

Trp Thr Ser Lys Glu Asp Asp Ala Leu Ala Ala Tyr Val Lys Ala His
20 25 30

Gly Glu Gly Lys Trp Arg Glu Val Pro Gln Lys Ala Gly Leu Arg Arg
35 40 45

Cys Gly Lys Ser Cys Arg Leu Arg Trp Leu Asn Tyr Leu Arg Pro Asn
50 55 60

Ile Arg Arg Gly Asn Ile Ser Tyr Asp Glu Glu Asp Leu Ile Ile Arg
65 70 75 80

Leu His Arg Leu Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly Arg Leu
85 90 95

Pro Gly Arg Thr Asp Asn Glu Ile Lys Asn Tyr Trp Asn Ser Thr Leu
100 105 110

<210> 33

<211> 123

<212> PRT

<213> Sorghum bicolor

<220>

<221> DOMAIN

<222> (1)...(123)

<223> R2 and R3 domians of MYB protein (Sb_m_C1)

<400> 33

Met Gly Arg Arg Ala Cys Cys Ala Lys Glu Gly Val Lys Arg Gly Ala
1 5 10 15

Trp Thr Ala Lys Glu Asp Asp Val Leu Ala Ala Tyr Val Lys Ala His
20 25 30
Gly Glu Gly Lys Trp Arg Glu Val Pro Gln Lys Ala Gly Leu Arg Arg
35 40 45
Cys Gly Lys Ser Cys Arg Leu Arg Trp Leu Asn Tyr Leu Arg Pro Asn
50 55 60
Ile Lys Arg Gly Asn Ile Ser Tyr Asp Glu Glu Asp Leu Ile Ile Arg
65 70 75 80
Leu His Lys Leu Leu Gly Asn Arg Ser Val Ser Val Val Arg Ala Gly
85 90 95
Gly Gly Arg Trp Ser Leu Ile Ala Gly Arg Leu Pro Gly Arg Thr Asp
100 105 110
Asn Glu Ile Lys Asn Tyr Trp Asn Ser Thr Leu
115 120

<210> 34
<211> 112
<212> PRT
<213> Oryza sativa

<220>
<221> DOMAIN
<222> (1)...(112)
<223> R2 and R3 domians of MYB protein (Os_m_C1)

<400> 34
Met Gly Arg Arg Ala Cys Cys Ala Lys Glu Gly Met Lys Arg Gly Ala
1 5 10 15
Trp Thr Ser Lys Glu Asp Asp Val Leu Ala Ser Tyr Ile Lys Ser His
20 25 30
Gly Glu Gly Lys Trp Arg Glu Val Pro Gln Arg Ala Gly Leu Arg Arg
35 40 45
Cys Gly Lys Ser Cys Arg Leu Arg Trp Leu Asn Tyr Leu Arg Pro Asn

50 55 60

Ile Lys Arg Gly Asn Ile Asp Asp Asp Glu Glu Glu Leu Ile Val Arg

65 70 75 80

Leu His Thr Leu Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly Arg Leu

85 90 95

Pro Gly Arg Thr Asp Asn Glu Ile Lys Asn Tyr Trp Asn Ser Thr Leu

100 105 110

<210> 35

<211> 112

<212> PRT

<213> Epimedium sagittatum

<220>

<221> DOMAIN

<222> (1)...(112)

<223> R2 and R3 domians of MYB protein (Es_d_MYB10)

<400> 35

Met Gly Arg Ser Pro Cys Cys Ser Lys Glu Gly Leu Asn Arg Gly Ala

1 5 10 15

Trp Thr Ser Thr Glu Asp Lys Leu Leu Lys Asp Tyr Ile Arg Val His

20 25 30

Gly Glu Gly Lys Trp Arg Ser Leu Pro Pro Arg Ala Gly Leu Lys Arg

35 40 45

Cys Gly Lys Ser Cys Arg Leu Arg Trp Leu Asn Tyr Leu Arg Pro Asp

50 55 60

Ile Lys Arg Gly Asn Ile Thr His Asp Glu Glu Glu Leu Ile Ile Arg

65 70 75 80

Leu His Lys Leu Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly Arg Leu

85 90 95

Pro Gly Arg Thr Asp Asn Glu Ile Lys Asn Tyr Trp Asn Thr Asn Leu

100 105 110

<210> 36

<211> 113

<212> PRT

<213> Rosa rugosa

<220>

<221> DOMAIN

<222> (1)...(113)

<223> R2 and R3 domians of MYB protein (Rr_d_MYB)

<400> 36

Met Gly Arg Ser Ser Ser Arg Cys Asp Lys Glu Gly Ala Asn Lys Gly
1 5 10 15

Ala Trp Thr Ala His Glu Asp Gln Val Leu Arg Asp Tyr Val Lys Glu
20 25 30

Tyr Gly Glu Gly Lys Trp Gly Lys Met Ser Arg Glu Thr Gly Leu Lys
35 40 45

Arg Cys Gly Lys Ser Cys Arg Leu Arg Trp Leu Asn Tyr Leu Arg Pro
50 55 60

Asp Ile Lys Arg Gly Asn Ile Thr Glu Asp Glu Glu Glu Leu Ile Ile
65 70 75 80

Arg Leu His Lys Leu Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly Arg
85 90 95

Leu Pro Gly Arg Thr Asp Asn Glu Ile Lys Asn Tyr Trp Asn Ser Thr
100 105 110

Ile

<210> 37

<211> 103

<212> PRT

<213> Rubus sp.

<220>

<221> DOMAIN

<222> (1)...(103)

<223> R2 and R3 domians of MYB protein (Rubus hybrid, Rubus_d_R2R3)

<400> 37

Met Glu Val Arg Lys Gly Ala Trp Thr Lys Glu Glu Asp His Leu Leu
1 5 10 15

Arg Asn Tyr Ile Glu Lys Asn Gly Glu Gly Lys Trp His Asn Val Pro
20 25 30

Leu Asn Ala Gly Leu Asn Arg Cys Arg Lys Ser Cys Arg Met Arg Trp
35 40 45

Leu Asn Tyr Leu Lys Pro Asn Ile Lys Lys Gly Asp Phe Ser Glu Asn
50 55 60

Glu Val Asp Leu Met Ile Arg Leu Arg Lys Leu Leu Gly Asn Arg Trp
65 70 75 80

Ser Leu Ile Ala Gly Arg Leu Pro Gly Arg Thr Ser Asn Asp Val Lys
85 90 95

Asn Tyr Trp Ser Ala Arg Arg
100

<210> 38

<211> 103

<212> PRT

<213> Rubus idaeus

<220>

<221> DOMAIN

<222> (1)...(103)

<223> R2 and R3 domians of MYB protein (Ri_d_R2R3)

<400> 38

Met Glu Val Arg Lys Gly Ala Trp Thr Lys Glu Glu Asp His Leu Leu
1 5 10 15

Arg Asn Tyr Ile Glu Lys His Gly Glu Gly Arg Trp His Lys Val Pro
20 25 30

Leu Gln Ala Gly Leu Asn Arg Cys Arg Lys Ser Cys Arg Met Arg Trp
35 40 45

Leu Asn Tyr Leu Lys Pro Asn Ile Lys Arg Gly Asp Phe Ala Glu Asp
50 55 60

Glu Val Asp Leu Met Ile Arg Leu Arg Lys Leu Leu Gly Asn Arg Trp
65 70 75 80

Ser Leu Ile Ala Gly Arg Leu Pro Gly Arg Thr Ser Asn Asp Val Lys
85 90 95

Asn Tyr Trp Ser Ala Arg Gln
100

<210> 39

<211> 108

<212> PRT

<213> Prunus persica

<220>

<221> DOMAIN

<222> (1)...(108)

<223> R2 and R3 domians of MYB protein (Pp_d_R2R3)

<400> 39

Met Glu Gly Tyr Asp Leu Ser Val Arg Lys Gly Ala Trp Thr Arg Glu
1 5 10 15

Glu Asp Asp Leu Leu Arg Gln Cys Ile Glu Asn Gln Gly Glu Gly Lys
20 25 30

Trp His Gln Val Pro Tyr Lys Ala Gly Leu Asn Arg Cys Arg Lys Ser
35 40 45

Cys Arg Leu Arg Trp Val Asn Tyr Leu Lys Pro Asn Ile Lys Lys Gly
50 55 60
Glu Phe Ala Glu Asp Glu Val Asp Leu Ile Ile Arg Leu His Lys Leu
65 70 75 80
Leu Gly Asn Arg Trp Ser Leu Ile Ala Arg Arg Leu Pro Gly Arg Thr
85 90 95
Ala Asn Asn Val Lys Asn Tyr Trp Asn Thr Arg Ser
100 105

<210> 40
<211> 108
<212> PRT
<213> Prunus dulcis

<220>
<221> DOMAIN
<222> (1)...(108)
<223> R2 and R3 domians of MYB protein (Pd_d_R2R3)

<400> 40
Met Glu Gly Tyr Asn Leu Gly Val Arg Lys Gly Ala Trp Thr Arg Glu
1 5 10 15
Glu Asp Asp Leu Leu Arg Gln Cys Ile Glu Asn Gln Gly Glu Gly Lys
20 25 30
Trp His Gln Val Pro Tyr Lys Ala Gly Leu Lys Arg Cys Arg Lys Ser
35 40 45
Cys Arg Leu Arg Trp Val Asn Tyr Leu Lys Pro Asn Ile Lys Arg Gly
50 55 60
Glu Phe Ala Glu Asp Glu Val Asp Leu Ile Ile Arg Leu His Lys Leu
65 70 75 80
Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly Arg Leu Pro Gly Arg Thr
85 90 95
Ala Asn Asp Val Lys Asn Tyr Trp Asn Thr Arg Leu

100 105

<210> 41
<211> 108
<212> PRT
<213> Prunus persica

<220>
<221> DOMAIN
<222> (1)...(108)
<223> R2 and R3 domians of MYB protein (Pp_d_MYB10)

<400> 41
Met Glu Gly Tyr Asn Leu Gly Val Arg Lys Gly Ala Trp Thr Arg Glu
1 5 10 15
Glu Asp Asp Leu Leu Arg Gln Cys Ile Glu Asn His Gly Glu Gly Lys
20 25 30
Trp His Gln Val Pro Asn Lys Ala Gly Leu Asn Arg Cys Arg Lys Ser
35 40 45
Cys Arg Leu Arg Trp Met Asn Tyr Leu Lys Pro Asn Ile Lys Arg Gly
50 55 60
Glu Phe Ala Glu Asp Glu Val Asp Leu Ile Ile Arg Leu His Lys Leu
65 70 75 80
Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly Arg Leu Pro Gly Arg Thr
85 90 95
Ala Asn Asp Val Lys Asn Tyr Trp Asn Thr Arg Leu
100 105

<210> 42
<211> 110
<212> PRT
<213> Malus x domestica

<220>

<221> DOMAIN

<222> (1)...(110)

<223> R2 and R3 domians of MYB protein (Md_d_MYB10 and Malus hybrid, Malus_d_MYB10)

<400> 42

Met Glu Gly Tyr Asn Glu Asn Leu Ser Val Arg Lys Gly Ala Trp Thr
1 5 10 15

Arg Glu Glu Asp Asn Leu Leu Arg Gln Cys Val Glu Ile His Gly Glu
20 25 30

Gly Lys Trp Asn Gln Val Ser Tyr Lys Ala Gly Leu Asn Arg Cys Arg
35 40 45

Lys Ser Cys Arg Gln Arg Trp Leu Asn Tyr Leu Lys Pro Asn Ile Lys
50 55 60

Arg Gly Asp Phe Lys Glu Asp Glu Val Asp Leu Ile Ile Arg Leu His
65 70 75 80

Arg Leu Leu Gly Asn Arg Trp Ser Leu Ile Ala Arg Arg Leu Pro Gly
85 90 95

Arg Thr Ala Asn Ala Val Lys Asn Tyr Trp Asn Thr Arg Leu
100 105 110

<210> 43

<211> 110

<212> PRT

<213> Malus pumila

<220>

<221> DOMAIN

<222> (1)...(110)

<223> R2 and R3 domians of MYB protein (Mp_d_MYB10)

<400> 43

Met Glu Gly Tyr Asn Glu Asn Leu Ser Val Arg Lys Gly Ala Trp Thr
1 5 10 15

Arg Glu Glu Asp Asp Leu Leu Arg Gln Cys Ile Glu Ile His Gly Glu
5 20 25 30

Gly Lys Trp Arg Gln Leu Pro Asn Lys Ala Gly Leu Asn Thr Cys Arg
35 40 45

Lys Ser Cys Arg Leu Arg Trp Leu Asn Tyr Leu Lys Pro Asn Ile Lys
50 55 60

10 Arg Gly Asp Phe Lys Glu Asp Glu Val Asp Leu Ile Ile Arg Leu His
65 70 75 80

Arg Leu Leu Gly Asn Arg Trp Ser Leu Ile Ala Arg Arg Leu Pro Gly
85 90 95

Arg Thr Ala Asn Ala Val Lys Asn Tyr Trp Asn Thr Arg Leu
15 100 105 110

<210> 44

<211> 106

20 <212> PRT

<213> Fragaria x ananassa

<220>

<221> DOMAIN

25 <222> (1)...(106)

<223> R2 and R3 domians of MYB protein (Frag_d_R2R3)

<400> 44

Met Glu Gly Phe Gly Val Arg Lys Gly Ala Trp Thr Lys Glu Glu Asp
30 1 5 10 15

Glu Leu Leu Lys Gln Phe Ile Glu Ile His Gly Glu Gly Lys Trp His
20 25 30

His Val Pro Leu Lys Ser Gly Leu Asn Arg Cys Arg Lys Ser Cys Arg
35 40 45

Leu Arg Trp Leu Asn Tyr Leu Lys Pro Asn Ile Lys Arg Gly Glu Phe
50 55 60
Ala Glu Asp Glu Val Asp Leu Ile Ile Arg Leu His Lys Leu Leu Gly
65 70 75 80
Asn Arg Trp Ser Leu Ile Ala Gly Arg Leu Pro Gly Arg Thr Ala Asn
85 90 95
Asp Val Lys Asn Tyr Trp Asn Thr Tyr Gln
100 105

<210> 45
<211> 107
<212> PRT
<213> Fragaria vesca

<220>
<221> DOMAIN
<222> (1)...(107)
<223> R2 and R3 domians of MYB protein (Fv_d_R2R3)

<400> 45
Met Glu Gly Tyr Phe Gly Val Arg Lys Gly Ala Trp Thr Lys Glu Glu
1 5 10 15
Asp Glu Leu Leu Lys Gln Phe Ile Glu Ile His Gly Glu Gly Lys Trp
20 25 30
His His Val Pro Leu Lys Ser Gly Leu Asn Arg Cys Arg Lys Ser Cys
35 40 45
Arg Leu Arg Trp Leu Asn Tyr Leu Lys Pro Asn Ile Lys Arg Gly Glu
50 55 60
Phe Ala Glu Asp Glu Val Asp Leu Ile Ile Arg Leu His Lys Leu Leu
65 70 75 80
Gly Asn Arg Trp Ser Leu Ile Ala Gly Arg Leu Pro Gly Arg Thr Ala
85 90 95
Asn Asp Val Lys Asn Tyr Trp Asn Thr Tyr Gln

100 105

<210> 46
<211> 109
<212> PRT
<213> Gerbera hybrida

<220>
<221> DOMAIN
<222> (1)...(109)
<223> R2 and R3 domians of MYB protein (Ger_d_MYB10)

<400> 46
Met Gly Ala Glu Ala Arg Ser Gly Leu Arg Lys Gly Ala Trp Thr Ala
1 5 10 15
Glu Glu Asp Met Leu Leu Lys Asn Cys Ile Glu Arg Tyr Gly Glu Gly
20 25 30
Lys Trp His Leu Val Pro Leu Lys Ala Gly Leu Asn Arg Cys Arg Lys
35 40 45
Ser Cys Arg Leu Arg Trp Leu Asn Tyr Leu Arg Pro Asn Ile Lys Arg
50 55 60
Gly Asp Phe Gly Glu Asp Glu Ile Asp Leu Ile Ile Arg Leu His Lys
65 70 75 80
Leu Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly Arg Ile Pro Gly Arg
85 90 95
Thr Ala Asn Asp Val Lys Asn Trp Trp Asn Thr His Leu
100 105

<210> 47
<211> 121
<212> PRT
<213> Medicago truncatula

<220>

<221> DOMAIN

<222> (1)...(121)

<223> R2 and R3 domians of MYB protein (Mt_d_MYB113)

<400> 47

Met Pro Leu Phe Val Cys Gly Gln Lys Gln Val Tyr Met Glu Lys Cys
1 5 10 15

Lys Thr Arg Gly Val Arg Lys Gly Ala Trp Thr Tyr Glu Glu Asp Lys
20 25 30

Leu Leu Lys Ala Cys Met Gln Lys Tyr Gly Glu Gly Lys Trp His Leu
35 40 45

Val Pro Gln Arg Ala Gly Leu Asn Arg Cys Arg Lys Ser Cys Arg Leu
50 55 60

Arg Trp Leu Asn Tyr Leu Asn Pro Thr Ile Asn Arg Glu Ser Phe Ser
65 70 75 80

Glu Asp Glu Val Asp Met Ile Leu Arg Leu His Lys Leu Leu Gly Asn
85 90 95

Arg Trp Ser Leu Ile Ala Ala Arg Leu Pro Gly Arg Thr Ala Asn Asp
100 105 110

Val Lys Asn Tyr Trp His Thr His Leu
115 120

<210> 48

<211> 107

<212> PRT

<213> Glycine max

<220>

<221> DOMAIN

<222> (1)...(107)

<223> R2 and R3 domians of MYB protein (Gm_d_MYB10)

<400> 48

Met Glu Arg Ser Ser Gly Ile Arg Lys Gly Thr Trp Thr Val Glu Glu
1 5 10 15

Asp Lys Leu Leu Arg Met Cys Val Glu Lys Tyr Gly Glu Gly Lys Trp
20 25 30

His Gln Ile Pro Lys Lys Ala Gly Leu Asn Arg Cys Arg Lys Ser Cys
35 40 45

Arg Leu Arg Trp Leu Asn Tyr Leu Lys Pro Asn Ile Lys Arg Gly Asp
50 55 60

Phe Leu Ala Asp Glu Val Asp Leu Met Leu Lys Leu His Lys Leu Leu
65 70 75 80

Gly Asn Arg Trp Ser Leu Ile Ala Gly Arg Leu Pro Gly Arg Thr Ala
85 90 95

Asn Asp Val Lys Asn Phe Trp Asn Thr His Leu
100 105

<210> 49

<211> 107

<212> PRT

<213> Vitis vinifera

<220>

<221> DOMAIN

<222> (1)...(107)

<223> R2 and R3 domians of MYB protein (Vv_d_MYB113a)

<400> 49

Met Glu Gly Ser Leu Gly Leu Arg Lys Gly Ala Trp Thr Ser Glu Glu
1 5 10 15

Asp His Leu Leu Arg Lys Cys Val Glu Lys Tyr Gly Glu Gly Lys Trp
20 25 30

His Gln Val Pro Phe Arg Ala Gly Leu Asn Arg Cys Arg Lys Ser Cys

35 40 45

Arg Leu Arg Trp Leu Asn Tyr Leu Lys Pro Asp Ile Lys Arg Gly Lys

50 55 60

Phe Thr Ala Asp Glu Val Asp Leu Met Met Arg Leu His Lys Leu Leu

65 70 75 80

Gly Asn Arg Trp Ala Leu Ile Ala Gly Arg Leu Pro Gly Arg Thr Ser

85 90 95

Asn Asp Val Lys Asn Tyr Trp Asn Thr His Leu

100 105

<210> 50

<211> 108

<212> PRT

<213> Arabidopsis thaliana

<220>

<221> DOMAIN

<222> (1)...(108)

<223> R2 and R3 domians of MYB protein (At_d_PAP1)

<400> 50

Met Glu Gly Ser Ser Lys Gly Leu Arg Lys Gly Ala Trp Thr Thr Glu

1 5 10 15

Glu Asp Ser Leu Leu Arg Gln Cys Ile Asn Lys Tyr Gly Glu Gly Lys

20 25 30

Trp His Gln Val Pro Val Arg Ala Gly Leu Asn Arg Cys Arg Lys Ser

35 40 45

Cys Arg Leu Arg Trp Leu Asn Tyr Leu Lys Pro Ser Ile Lys Arg Gly

50 55 60

Lys Leu Ser Ser Asp Glu Val Asp Leu Leu Leu Arg Leu His Arg Leu

65 70 75 80

Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly Arg Leu Pro Gly Arg Thr

85 90 95

Ala Asn Asp Val Lys Asn Tyr Trp Asn Thr His Leu
100 105

<210> 51
<211> 108
<212> PRT
<213> Arabidopsis thaliana

<220>
<221> DOMAIN
<222> (1)...(108)
<223> R2 and R3 domians of MYB protein (At_d_MYB90)

<400> 51
Met Glu Gly Ser Ser Lys Gly Leu Arg Lys Gly Ala Trp Thr Ala Glu
1 5 10 15
Glu Asp Ser Leu Leu Arg Leu Cys Ile Asp Lys Tyr Gly Glu Gly Lys
20 25 30
Trp His Gln Val Pro Leu Arg Ala Gly Leu Asn Arg Cys Arg Lys Ser
35 40 45
Cys Arg Leu Arg Trp Leu Asn Tyr Leu Lys Pro Ser Ile Lys Arg Gly
50 55 60
Arg Leu Ser Asn Asp Glu Val Asp Leu Leu Leu Arg Leu His Lys Leu
65 70 75 80
Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly Arg Leu Pro Gly Arg Thr
85 90 95
Ala Asn Asp Val Lys Asn Tyr Trp Asn Thr His Leu
100 105

<210> 52
<211> 108
<212> PRT

<213> Brassica rapa

<220>
<221> DOMAIN
<222> (1)...(108)
<223> R2 and R3 domians of MYB protein (Br_d_PAP1)

<400> 52
Met Glu Asp Ser Ser Lys Gly Leu Lys Lys Gly Ala Trp Thr Ala Glu
1 5 10 15
Glu Asp Asn Leu Leu Arg Gln Cys Ile Asp Lys Tyr Gly Glu Gly Lys
20 25 30
Trp His Gln Val Pro Leu Arg Ala Gly Leu Asn Arg Cys Arg Lys Ser
35 40 45
Cys Arg Leu Arg Trp Leu Asn Tyr Leu Lys Pro Ser Ile Lys Arg Gly
50 55 60
Lys Leu Asn Ser Asp Glu Val Asp Leu Leu Met Cys Leu His Lys Leu
65 70 75 80
Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly Arg Leu Pro Gly Arg Thr
85 90 95
Ala Asn Asp Val Lys Asn Tyr Trp Asn Thr His Leu
100 105

<210> 53
<211> 108
<212> PRT
<213> Arabidopsis thaliana

<220>
<221> DOMAIN
<222> (1)...(108)
<223> R2 and R3 domians of MYB protein (At_d_MYB113)

<400> 53

Met Gly Glu Ser Pro Lys Gly Leu Arg Lys Gly Thr Trp Thr Thr Glu
1 5 10 15

Glu Asp Ile Leu Leu Arg Gln Cys Ile Asp Lys Tyr Gly Glu Gly Lys
5 20 25 30

Trp His Arg Val Pro Leu Arg Thr Gly Leu Asn Arg Cys Arg Lys Ser
35 40 45

Cys Arg Leu Arg Trp Leu Asn Tyr Leu Lys Pro Ser Ile Lys Arg Gly
50 55 60

10 Lys Leu Cys Ser Asp Glu Val Asp Leu Val Leu Arg Leu His Lys Leu
65 70 75 80

Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly Arg Leu Pro Gly Arg Thr
85 90 95

Ala Asn Asp Val Lys Asn Tyr Trp Asn Thr His Leu
15 100 105

<210> 54

<211> 106

20 <212> PRT

<213> Vitis vinifera

<220>

<221> DOMAIN

25 <222> (1)...(106)

<223> R2 and R3 domians of MYB protein (Vv_d_MYB113)

<400> 54

Met Glu Ser Leu Gly Val Thr Lys Gly Lys Trp Thr Arg Glu Glu Asp

30 1 5 10 15

Ile Leu Leu Arg Lys Cys Val Glu Asn Tyr Gly Glu Glu Lys Trp His
20 25 30

Leu Val Pro Leu Arg Ala Gly Leu Ser Arg Cys Arg Lys Ser Cys Arg
35 40 45

Leu Arg Trp Phe Asn Tyr Leu Lys Pro Asn Ile Lys Arg Gly Lys Phe
50 55 60
Ala Ser Asp Glu Val Asp Leu Met Ile Arg Leu His Lys Leu Leu Gly
65 70 75 80
Asn Arg Trp Ser Leu Ile Ala Gly Arg Leu Pro Gly Arg Thr Ala Asn
85 90 95
Asp Val Lys Asn Tyr Trp His His His Arg
100 105

<210> 55
<211> 107
<212> PRT
<213> Glycine max

<220>
<221> DOMAIN
<222> (1)...(107)
<223> R2 and R3 domians of MYB protein (Gm_d_MYB113)

<400> 55
Met Asp Gly Ser Ala Cys Val Arg Lys Gly Leu Trp Ser Glu Val Glu
1 5 10 15
Asp Thr Leu Leu Arg Thr Cys Val Arg Gln Tyr Gly Glu Gly Gln Trp
20 25 30
His Leu Val Pro Thr Arg Ala Gly Leu Asn Arg Cys Arg Lys Ser Cys
35 40 45
Arg Leu Arg Trp Leu Asn Tyr Leu Lys Pro Asn Ile Lys Arg Gly Glu
50 55 60
Phe Thr Glu Asp Glu Val Asp Leu Met Gln Arg Leu His Asn Leu Leu
65 70 75 80
Gly Asn Arg Trp Ser Leu Ile Ala Gly Arg Leu Pro Gly Arg Thr Pro
85 90 95
Asn Asp Val Lys Asn Tyr Trp Asn Thr Tyr Ile

100 105

<210> 56
<211> 114
<212> PRT
<213> Elaeis guineensis

<220>
<221> DOMAIN
<222> (1)...(114)
<223> R2 and R3 domians of MYB protein (Eg_m_vir and Eg_m_nig)

<400> 56
Met Gly Asn Leu Arg Ala Glu Val Gln Arg Pro Ala Gly Val Arg Lys
1 5 10 15
Gly Ala Trp Ser Glu Glu Glu Asp Arg Leu Leu Arg Lys Cys Val Glu
20 25 30
Lys Tyr Gly Glu Gly Asn Trp Arg His Val Pro Gln Arg Ala Gly Leu
35 40 45
Arg Arg Cys Arg Lys Ser Cys Arg Leu Arg Trp Leu Asn Tyr Leu Ser
50 55 60
Pro Arg Ile Asn Arg Glu Lys Phe Ser Glu Glu Glu Thr Asp Leu Ile
65 70 75 80
Ile Arg Leu His Lys Leu Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly
85 90 95
Arg Leu Pro Gly Arg Thr Ala Asn Asp Ile Lys Asn Tyr Trp Asn Thr
100 105 110
His Leu

<210> 57
<211> 112
<212> PRT

<213> Picea glauca

<220>
<221> DOMAIN
<222> (1)...(112)
<223> R2 and R3 domians of MYB protein (Pg_d_Myb10)

<400> 57
Met Gly Arg Ser Pro Cys Cys Glu Lys Ser His Thr Asn Lys Gly Ala
1 5 10 15
Trp Thr Lys Glu Glu Asp Asp Arg Leu Ile Ala His Ile Arg Ala His
20 25 30
Gly Glu Gly Gly Trp Arg Ser Leu Pro Lys Ala Ala Gly Leu Leu Arg
35 40 45
Cys Gly Lys Ser Cys Arg Leu Arg Trp Ile Asn Tyr Leu Arg Pro Asp
50 55 60
Leu Lys Arg Gly Asn Phe Ser Glu Glu Glu Asp Glu Leu Ile Ile Lys
65 70 75 80
Leu His Ser Ile Leu Gly Asn Lys Trp Ser Leu Ile Ala Ala Arg Leu
85 90 95
Pro Gly Arg Thr Asp Asn Glu Ile Lys Asn Tyr Trp Asn Ser His Ile
100 105 110

<210> 58
<211> 112
<212> PRT
<213> Gossypium hirsutum

<220>
<221> DOMAIN
<222> (1)...(112)
<223> R2 and R3 domians of MYB protein (Gh_d_MYB10)

<400> 58

Met Gly Arg Ser Pro Cys Cys Glu Lys Ala His Thr Asn Lys Gly Thr
1 5 10 15

Trp Thr Lys Glu Glu Asp Gln Arg Leu Ile Asp Tyr Ile Arg Leu Arg
20 25 30

Gly Glu Gly Cys Trp Arg Ser Leu Pro Lys Ala Ala Gly Leu Leu Arg
35 40 45

Cys Gly Lys Ser Cys Arg Leu Arg Trp Ile Asn Tyr Leu Arg Pro Asp
50 55 60

Leu Lys Arg Gly Asn Phe Ser Glu Ala Glu Asp Glu Leu Ile Ile Lys
65 70 75 80

Leu His Ser Leu Leu Gly Asn Lys Trp Ser Leu Ile Ala Ala Arg Leu
85 90 95

Pro Gly Arg Thr Asp Asn Glu Ile Lys Asn Tyr Trp Asn Thr His Ile
100 105 110

<210> 59

<211> 112

<212> PRT

<213> Dendrobium sp.

<220>

<221> DOMAIN

<222> (1)...(112)

<223> R2 and R3 domians of MYB protein (Dendrobium sp. XMW-2002-10, Dend_m_myb10)

<400> 59

Met Gly Arg Ser Ala Cys Cys Glu Lys Ala His Thr Asn Lys Gly Ala
1 5 10 15

Trp Thr Lys Glu Glu Asp Glu Arg Leu Ile Ala His Ile Arg Thr His
20 25 30

Gly Glu Gly Cys Trp Arg Ser Leu Pro Lys Ala Ala Gly Leu Leu Arg

35 40 45

Cys Gly Lys Ser Cys Arg Leu Arg Trp Ile Asn Tyr Leu Arg Pro Asp

50 55 60

Leu Lys Arg Gly Asn Phe Thr Asp Glu Glu Asp Glu Leu Ile Ile Lys

65 70 75 80

Leu His Ser Leu Leu Gly Asn Lys Trp Ser Leu Ile Ala Gly Arg Leu

85 90 95

Pro Gly Arg Thr Asp Asn Glu Ile Lys Asn Tyr Trp Asn Thr His Ile

100 105 110

<210> 60

<211> 112

<212> PRT

<213> Oryza sativa

<220>

<221> DOMAIN

<222> (1)...(112)

<223> R2 and R3 domians of MYB protein (Os_m_MYB10)

<400> 60

Met Gly Arg Ser Pro Cys Cys Glu Lys Ala His Thr Asn Lys Gly Ala

1 5 10 15

Trp Thr Lys Glu Glu Asp Gln Arg Leu Ile Ala His Ile Asn Gln His

20 25 30

Gly Glu Gly Cys Trp Arg Ser Leu Pro Lys Ala Ala Gly Leu Leu Arg

35 40 45

Cys Gly Lys Ser Cys Arg Leu Arg Trp Ile Asn Tyr Leu Arg Pro Asp

50 55 60

Leu Lys Arg Gly Asn Phe Thr Asp Glu Glu Asp Glu Leu Ile Ile Lys

65 70 75 80

Leu His Glu Leu Leu Gly Asn Lys Trp Ser Leu Ile Ala Gly Arg Leu

85 90 95

Pro Gly Arg Thr Asp Asn Glu Ile Lys Asn Tyr Trp Asn Thr His Ile
100 105 110

<210> 61
<211> 114
<212> PRT
<213> Arabidopsis thaliana

<220>
<221> DOMAIN
<222> (1)...(114)
<223> R2 and R3 domians of MYB protein (At_d_MYB10 and At_d_MYB10b)

<400> 61
Met Gly Asn Arg Arg Ala Pro Cys Cys Asp Lys Ser Gln Val Lys Arg
1 5 10 15
Gly Pro Trp Ser Asp Glu Glu Ser Glu Arg Leu Arg Ser Phe Ile Leu
20 25 30
Lys Asn Gly His Gln Asn Trp Arg Ser Leu Pro Lys Leu Ala Gly Leu
35 40 45
Met Arg Cys Gly Lys Ser Cys Arg Leu Arg Trp Ile Asn Tyr Leu Arg
50 55 60
Pro Gly Leu Lys Arg Gly Asn Phe Thr Lys Glu Glu Glu Asp Thr Ile
65 70 75 80
Ile His Leu His Gln Ala Tyr Gly Asn Lys Trp Ser Lys Ile Ala Ser
85 90 95
Asn Phe Pro Gly Arg Thr Asp Asn Glu Ile Lys Asn Val Trp Asn Thr
100 105 110
His Leu

<210> 62

<211> 923

<212> DNA

<213> Elaeis guineensis

<220>

<223> wild-type VIR allele, wild type allele RTPAP1_mrna

<400> 62

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gaagaggagg acaggcttct gagaaagtgc gttgagaaat atggcgaagg gaactggcgc 120

catgttcccc aaagggcagg cctcagaagg tgccgaaaga gctgccgact acggtggttg 180

aactatctca gccctaggat caacagggag aaattttcgg aggaagaaac agatcttatc 240

atcaggcttc ataagctctt gggcaacagg tggtcattaa ttgcaggtag gcttccaggc 300

aggacagcaa atgacatcaa gaactactgg aacactcacc tgggcaagaa agtagaagtt 360

gaaaacaaga aggcggagcc cagtgctgat gccaaagtaa ttaagccacg gccatggaaa 420

gtaccgttgc aatggttatg gtcagaagat cagcaatcat gtggaagcca gcagccgcaa 480

gaaaagtttg ggataccaga actaccgaca atctcagaga acgatgaagc gtggctgaat 540

tgtataatga atggagatag agagaacagt gcagtgccag acgttggaaa cgggagcaca 600

atgaacctgc agaatgaatt tggaatcgga ggcttggagg aaaatagaga tggggcagtg 660

tttctggaag gagttctagg atgggatgac ttgctttggg ccactatata gtgctcatat 720

atggtagtgc aatagttgcc attataagtt gtttcgaact ttaatgctcc tgaaattccc 780

atgcaagtat ttagagcttc atatcctaca aaaagacagg aaacgagacc ttgaaaaaag 840

actcagtacc agaaggcatc cacttattga ttgcttttat acttgcaaca tgaaggaagc 900

acgctttctc accaaaaaaa aaa 923

<210> 63

<211> 923

<212> DNA

<213> Elaeis guineensis

<220>

<223> mutant VIR allele, mutant allele SNP_1

<400> 63

atgggtaatt tgcgtgccga agtccaacgt ccagctggtg ttcgcaaagg agcatggagt 60
gaagaggagg acaggcttct gagaaagtgc gttgagaaat atggcgaagg gaactggcgc 120
catgttcccc aaagggcagg cctcagaagg tgccgaaaga gctgccgact acggtggttg 180
aactatctca gccctaggat caacagggag aaattttcgg aggaagaaac agatcttatc 240
atcaggcttc ataagctctt gggcaacagg tggtcattaa ttgcaggtag gcttccaggc 300
aggacagcaa atgacatcaa gaactactgg aacactcacc tgggcaagaa agtagaagtt 360
gaaaacaaga aggcggagcc cagtgctgat gccaaagtaa ttaagccacg gccatggaaa 420
gtaccgttgc aatggttatg gtcagaagat cagcaatcat gtggaagcca gcagccgcaa 480
gaaaagtttg ggataccaga actaccgaca atctcagaga acgatgaagc gtggctgaat 540
tgtataatga atggagatag agagaacagt gcagtgccag acgttggaaa cgggagcaca 600
atgaacctgc agaatgaatt tggaatcgga ggcttggagg aaaattgaga tggggcagtg 660
tttctggaag gagttctagg atgggatgac ttgctttggg ccactatata gtgctcatat 720
atggtagtgc aatagttgcc attataagtt gtttcgaact ttaatgctcc tgaaattccc 780
atgcaagtat ttagagcttc atatcctaca aaaagacagg aaacgagacc ttgaaaaaag 840
actcagtacc agaaggcatc cacttattga ttgcttttat acttgcaaca tgaaggaagc 900
acgctttctc accaaaaaaa aaa 923

<210> 64
<211> 923
<212> DNA
<213> Elaeis guineensis

<220>
<223> mutant VIR allele, mutant allele SNP_2

<400> 64
atgggtaatt tgcgtgccga agtccaacgt ccagctggtg ttcgcaaagg agcatggagt 60
gaagaggagg acaggcttct gagaaagtgc gttgagaaat atggcgaagg gaactggcgc 120
catgttcccc aaagggcagg cctcagaagg tgccgaaaga gctgccgact acggtggttg 180
aactatctca gccctaggat caacagggag aaattttcgg aggaagaaac agatcttatc 240
atcaggcttc ataagctctt gggcaacagg tggtcattaa ttgcaggtag gcttccaggc 300
aggacagcaa atgacatcaa gaactactgg aacactcacc tgggcaagaa agtagaagtt 360
gaaaacaaga aggcggagcc cagtgctgat gccaaagtaa ttaagccacg gccatggaaa 420
gtaccgttgc aatggttatg gtcagaagat cagcaatcat gtggaagcca gcagccgcaa 480

gaaaagtttg ggataccaga actaccgaca atctcagaga acgatgaagc gtggctgaat 540
tgtataatga atggagatag agagaacagt gcagtgccag acgttggaaa cgggagcaca 600
atgaacctgc agaattaatt tggaatcgga ggcttggagg aaaatagaga tggggcagtg 660
tttctggaag gagttctagg atgggatgac ttgctttggg ccactatata gtgctcatat 720
atggtagtgc aatagttgcc attataagtt gtttcgaact ttaatgctcc tgaaattccc 780
atgcaagtat ttagagcttc atatcctaca aaaagacagg aaacgagacc ttgaaaaaag 840
actcagtacc agaaggcatc cacttattga ttgcttttat acttgcaaca tgaaggaagc 900
acgctttctc accaaaaaaa aaa 923

<210> 65
<211> 923
<212> DNA
<213> Elaeis guineensis

<220>
<223> mutant VIR allele, mutant allele SNP_3

<400> 65
atgggtaatt tgcgtgccga agtccaacgt ccagctggtg ttcgcaaagg agcatggagt 60
gaagaggagg acaggcttct gagaaagtgc gttgagaaat atggcgaagg gaactggcgc 120
catgttcccc aaagggcagg cctcagaagg tgccgaaaga gctgccgact acggtggttg 180
aactatctca gccctaggat caacagggag aaattttcgg aggaagaaac agatcttatc 240
atcaggcttc ataagctctt gggcaacagg tggtcattaa ttgcaggtag gcttccaggc 300
aggacagcaa atgacatcaa gaactactgg aacactcacc tgggcaagaa agtagaagtt 360
gaaaacaaga aggcggagcc cagtgctgat gccaaagtaa ttaagccacg gccatggaaa 420
gtaccgttgc aatggttatg gtcagaagat cagcaatcat gtggaagcca gcagccgcaa 480
gaaaagtttg ggataccaga actaccgaca atctcagaga acgatgaagc gtagctgaat 540
tgtataatga atggagatag agagaacagt gcagtgccag acgttggaaa cgggagcaca 600
atgaacctgc agaatgaatt tggaatcgga ggcttggagg aaaatagaga tggggcagtg 660
tttctggaag gagttctagg atgggatgac ttgctttggg ccactatata gtgctcatat 720
atggtagtgc aatagttgcc attataagtt gtttcgaact ttaatgctcc tgaaattccc 780
atgcaagtat ttagagcttc atatcctaca aaaagacagg aaacgagacc ttgaaaaaag 840
actcagtacc agaaggcatc cacttattga ttgcttttat acttgcaaca tgaaggaagc 900
acgctttctc accaaaaaaa aaa 923

<210> 66

<211> 921

<212> DNA

<213> Elaeis guineensis

<220>

<223> mutant VIR allele, mutant allele SNP_4

<400> 66

atgggtaatt tgcgtgccga agtccaacgt ccagctggtg ttcgcaaagg agcatggagt 60

gaagaggagg acaggcttct gagaaagtgc gttgagaaat atggcgaagg gaactggcgc 120

catgttcccc aaagggcagg cctcagaagg tgccgaaaga gctgccgact acggtggttg 180

aactatctca gccctaggat caacagggag aaattttcgg aggaagaaac agatcttatc 240

atcaggcttc ataagctctt gggcaacagg tggtcattaa ttgcaggtag gcttccaggc 300

aggacagcaa atgacatcaa gaactactgg aacactcacc tgggcaagaa agtagaagtt 360

gaaaacaaga aggcggagcc cagtgctgat gccaaagtaa ttaagccacg gccatggaaa 420

gtaccgttgc aatggttatg gtcagaagat cagcaatcat gtggaagcca gcagccgcaa 480

gaaaagtttg ggataccaga actaccgaca atctcagaga acgatgaagc gtggctgaat 540

tgtaatgaat ggagatagag agaacagtgc agtgccagac gttggaaacg ggagcacaat 600

gaacctgcag aatgaatttg gaatcggagg cttggaggaa aatagagatg gggcagtgtt 660

tctggaagga gttctaggat gggatgactt gctttgggcc actatatagt gctcatatat 720

ggtagtgcaa tagttgccat tataagttgt ttcgaacttt aatgctcctg aaattcccat 780

gcaagtattt agagcttcat atcctacaaa aagacaggaa acgagacctt gaaaaaagac 840

tcagtaccag aaggcatcca cttattgatt gcttttatac ttgcaacatg aaggaagcac 900

gctttctcac caaaaaaaaa a 921

<210> 67

<211> 761

<212> DNA

<213> Elaeis guineensis

<220>

<223> mutant VIR allele, mutant allele SNP_5

<400> 67

atgggtaatt tgcgtgccga agtccaacgt ccagctggtg ttcgcaaagg agcatggagt 60
gaagaggagg acaggcttct gagaaagtgc gttgagaaat atggcgaagg gaactggcgc 120
catgttcccc aaagggcagg cctcagaagg tgccgaaaga gctgccgact acggtggttg 180
aactatctca gccctaggat caacagggag aaattttcgg aggaagaaac agatcttatc 240
atcaggcttc ataagctctt gggcaacagg tggtcattaa ttgcaggtag gcttccaggc 300
aggacagcaa atgacatcaa gaactactgg aacactcacc tgggcaagaa agtagaagtt 360
gaaaacaaga aggcggagcc cagtgctgat gccaaagtaa ttaagccacg gccatggaaa 420
gtaccgttgc aatggttatg gtcagaagat cagcaatcat gtggaagcca gcagccgcaa 480
gaagattaat gctttgggcc actatatagt gcttatatat gggatgactt gctttgggcc 540
actatatagt gcttatatat ggtagtgcaa tagttgccat tataagttgt ttcgaacttt 600
aatgctcctg aaattcccat gcaagtattt agagcttcat atcctacaaa aagacaggaa 660
acgagacctt gaaaaaagac tcagtaccag aaggcatcca cttattgatt gcttttatac 720
ttgcaacatg aaggaagcac gctttctcac caaaaaaaaa a 761

<210> 68
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic Event2-vir allele

<400> 68
gtaccgttgc aatggttatg gtcagaagat cagcaatcat gtggaagcca gcagccgcaa 60
gaaaagtttg ggataccaga actaccgaca atctcagaga acgatgaagc gtggctgaat 120
tgtataatga atggagatag agagaacagt gcagtgccag acgttggaaa cgggagcaca 180
atgaacctgc agaattaatt tggaatcgga ggcttggagg aaaatagaga tggggcagtg 240
tttctggaag gagttctagg atgggatgac ttgctttggg ccactatata gtgctcatat 300
atggtagtgc aatagttgcc attataagtt gtttcgaact ttaatgctcc tgaaattccc 360
atgcaagta 369

<210> 69

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic Event2-vir allele forward amplification primer

<400> 69

tgcaatggtt atggtcagaa g 21

<210> 70

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic Event2-vir allele reverse amplification primer

<400> 70

gtaatttcaa gctttgttg 19

<210> 71

<211> 74

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic wild-type VIR allele template

<400> 71

aggaggttcg gaggctaagg tttaagtaag acgtccaagt aacacgaggg caaaggttgc 60

agaccgtgac gtga 74

<210> 72

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic wild-type VIR allele and Event2-vir allele exemplary primer

<400> 72

gagcacaatg aacctgcaga at 22

<210> 73

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic wild-type VIR allele primer extension product

<220>

<221> modified_base

<222> (23)...(23)

<223> c modified by fluorescein derivative FAM

<400> 73

gagcacaatg aacctgcaga atc 23

<210> 74

<211> 74

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic Event2-vir allele template

<400> 74
aggaggttcg gaggctaagg tttaattaag acgtccaagt aacacgaggg caaaggttgc 60
agaccgtgac gtga 74

<210> 75
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic Event2-vir allele primer extension product

<220>
<221> modified_base
<222> (23)...(23)
<223> a modified by rhodamine derivative TAM, TAMRA

<400> 75
gagcacaatg aacctgcaga ata 23

<210> 76
<211> 384
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic Event3-vir allele

<400> 76
aaagtaatta agccacggcc atggaaagta ccgttgcaat ggttatggtc agaagatcag 60
caatcatgtg gaagccagca gccgcaagaa aagtttggga taccagaact accgacaatc 120
tcagagaacg atgaagcgta gctgaattgt ataatgaatg gagatagaga gaacagtgca 180
gtgccagacg ttggaaacgg gagcacaatg aacctgcaga atgaatttgg aatcggaggc 240

ttggaggaaa atagagatgg ggcagtgttt ctggaaggag ttctaggatg ggatgacttg 300

ctttgggcca ctatatagtg ctcatatatg gtagtgcaat agttgccatt ataagttgtt 360

tcgaacttta atgctcctga aatt 384

<210> 77

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic Event3-vir allele forward amplification primer

<400> 77

tgcaatggtt atggtcagaa g 21

<210> 78

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic Event3-vir allele reverse amplification primer

<400> 78

taatttcaag ctttgttg 18

<210> 79

<211> 70

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic wild-type VIR allele template

<400> 79
aactaccgac aatctcagag aacgatgaag cgtggctgaa ttgtataatg aatggagata 60
gagagaacag 70

<210> 80
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic wild-type VIR allele and Event3-vir allele exemplary primer

<400> 80
aagtaatatg ttaagtcg 18

<210> 81
<211> 19
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<220>
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<220>
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<222> (19)...(19)
<223> c modified by fluorescein derivative FAM

<400> 81
aagtaatatg ttaagtcgc 19

<210> 82
<211> 70

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic Event3-vir allele template

<400> 82

aactaccgac aatctcagag aacgatgaag cgtagctgaa ttgtataatg aatggagata 60

gagagaacag 70

<210> 83

<211> 19

<212> DNA

<213> Artificial Sequence

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<223> synthetic Event2-vir allele primer extension product

<220>

<221> modified_base

<222> (19)...(19)

<223> t modified by rhodamine derivative TAM, TAMRA

<400> 83

aagtaatatg ttaagtcgt 19

<210> 84

<211> 292

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic Event5-vir allele

<400> 84

tgcaggtagg cttccaggca ggacagcaaa tgacatcaag aactactgga acactcacct 60

gggcaagaaa gtagaagttg aaaacaagaa ggcggagccc agtgctgatg ccaaagtaat 120

taagccacgg ccatggaaag taccgttgca atggttttgg tcagaagatc agcaatcatg 180

tggaagccag cagccgcaag aagattaatg ctttgggcca ctatatagtg cttatatatg 240

ggatgacttg ctttgggcca ctatatagtg cttatatatg gtagtgcaat ag 292

<210> 85

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic Event5-vir allele forward amplification primer

<400> 85

tgcaatggtt ttggtcagaa g 21

<210> 86

<211> 23

<212> DNA

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<223> synthetic Event5-vir allele reverse amplification primer

<400> 86

atggtatata ttcgtgatat atc 23

<210> 87

<211> 80

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic wild-type VIR allele template

<400> 87

agatcagcaa tcatgtggaa gccagcagcc gcaagaaaag tttgggatac cagaactacc 60

gacaatctca gagaacgatg 80

<210> 88

<211> 80

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic wild-type VIR allele template complement

<400> 88

catcgttctc tgagattgtc ggtagttctg gtatcccaaa cttttcttgc ggctgctggc 60

ttccacatga ttgctgatct 80

<210> 89

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic wild-type VIR allele and Event5-vir allele exemplary primer

<400> 89

tcggtcgtcg gcgttctt 18

<210> 90

<211> 19

<212> DNA

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<400> 90
tcggtcgtcg gcgttctta 19

<210> 91
<211> 80
<212> DNA
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<220>
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<400> 91
agatcagcaa tcatgtggaa gccagcagcc gcaagaagat taatgctttg ggccactata 60
tagtgcttat atatgggatg 80

<210> 92
<211> 80
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic Event5-vir allele template complement

<400> 92

catcccatat ataagcacta tatagtggcc caaagcatta atcttcttgc ggctgctggc 60
ttccacatga ttgctgatct 80

<210> 93
<211> 19
<212> DNA
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<220>
<223> synthetic Event5-vir allele primer extension product

<220>
<221> modified_base
<222> (19)...(19)
<223> g modified by rhodamine derivative TAM, TAMRA

<400> 93
tcggtcgtcg gcgttcttg 19

<210> 94
<211> 82
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic Event1-vir allele template

<400> 94
aatgaacctg cagaatttgg aatcggaggc ttggaggaaa atagagatgg ggcagtgttt 60
ctggaaggag ttctaggatg gg 82

<210> 95
<211> 18
<212> DNA

<213> Artificial Sequence

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<223> synthetic wild-type VIR allele and Event1-vir allele exemplary primer

<400> 95
ctttgtgacg gggtagag 18

<210> 96
<211> 19
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<220>
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<220>
<221> modified_base
<222> (19)...(19)
<223> t modified by fluorescein derivative FAM

<400> 96
ctttgtgacg gggtagagt 19

<210> 97
<211> 86
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic Event1-vir allele template

<400> 97

aatgaacctg cagaatgaat ttggaatcgg aggcttggag gaaaattgag atggggcagt 60
gtttctggaa ggagttctag gatggg 86

<210> 98
<211> 19
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<220>
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ctttgtgacg gggtagaga 19

<210> 99
<211> 82
<212> DNA
<213> Artificial Sequence

<220>
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<400> 99
ccagaactac cgacaatctc agagaacgat gaagcgtggc tgaattgtta aatgaatgga 60
gatagagaga acagtgcagt gc 82

<210> 100
<211> 82
<212> DNA

<213> Artificial Sequence

<220>
<223> synthetic Event4-vir allele template complement

<400> 100
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ctgagattgt cggtagttct gg 82

<210> 101
<211> 18
<212> DNA
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allele exemplary primer

<400> 101
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<210> 102
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<212> DNA
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<220>
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<220>
<221> modified_base
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<223> t modified by fluorescein derivative FAM

<400> 102
cttcgcaccg acttaacat 19

<210> 103
<211> 80
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic Event4-vir allele template

<400> 103
ccagaactac cgacaatctc agagaacgat gaagcgtggc tgaattgtaa tgaatggaga 60
tagagagaac agtgcagtgc 80

<210> 104
<211> 80
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic Event4-vir allele template complement

<400> 104
gcactgcact gttctctcta tctccattca ttacaattca gccacgcttc atcgttctct 60
gagattgtcg gtagttctgg 80

<210> 105
<211> 19
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<213> Artificial Sequence

<220>
<223> synthetic Event4-vir allele primer extension product

<220>

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<222> (19)...(19)

<223> a modified by rhodamine derivative TAM, TAMRA

<400> 105

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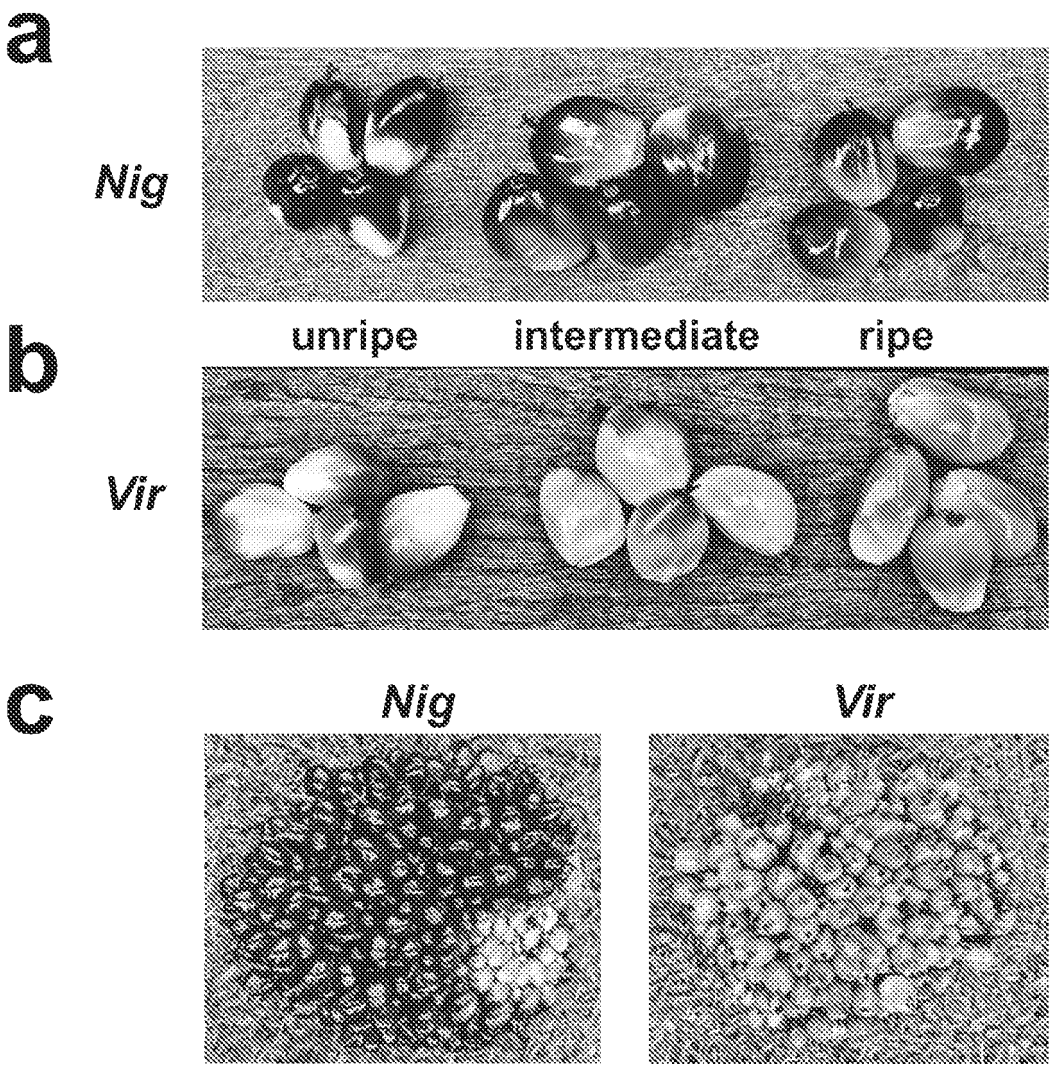


FIG. 1

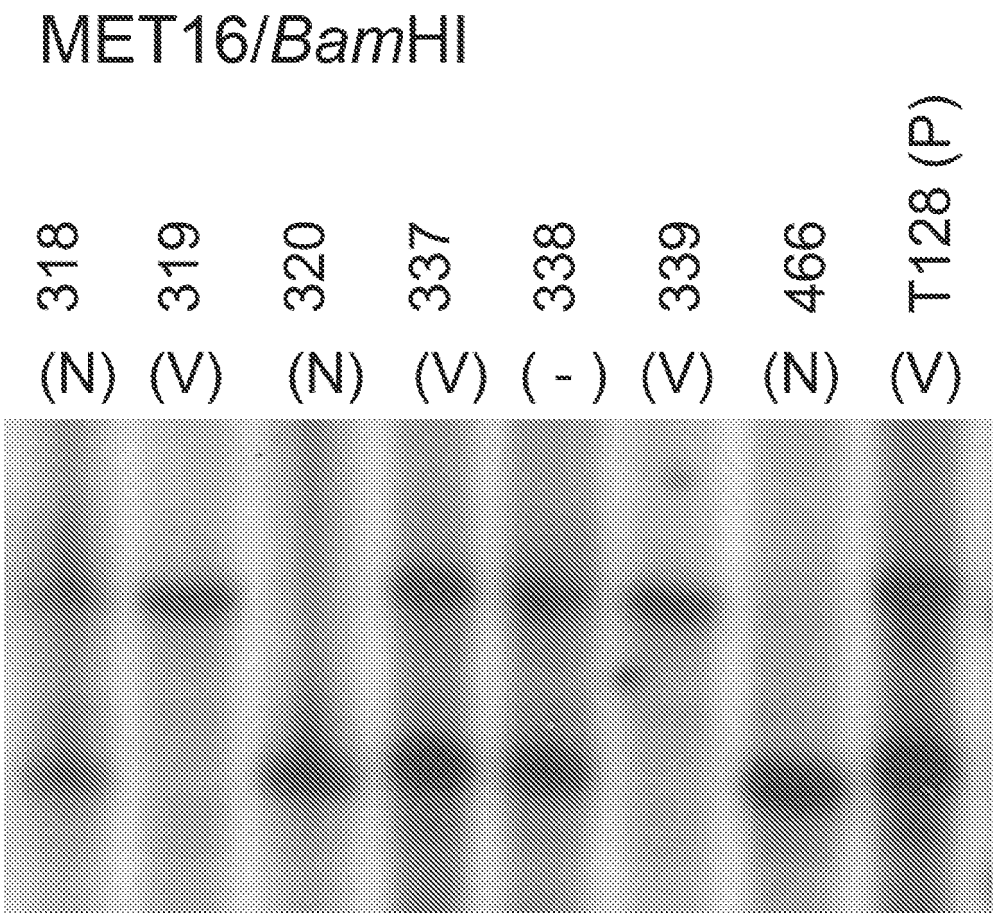


FIG. 2

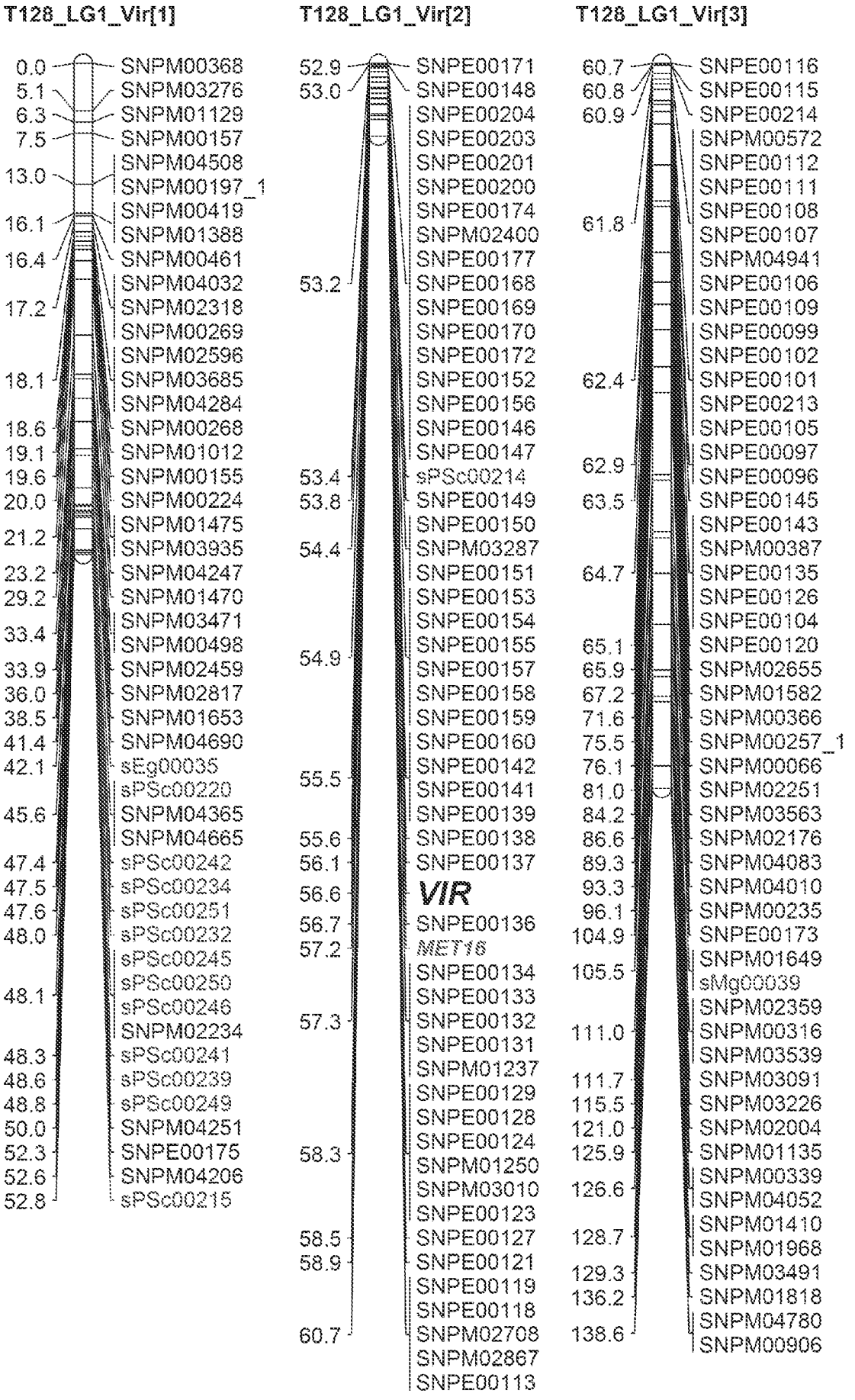

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0.0 SNPM00368
5.1 SNPM03276
6.3 SNPM01129
7.5 SNPM00157
SNPM04508
13.0 SNPM00197_1
SNPM00419
16.1 SNPM01388
16.4 SNPM00461
SNPM04032
17.2 SNPM02318
SNPM00269
SNPM02596
18.1 SNPM03685
SNPM04284
18.6 SNPM00268
19.1 SNPM01012
19.6 SNPM00155
20.0 SNPM00224
SNPM01475
21.2 SNPM03935
23.2 SNPM04247
29.2 SNPM01470
SNPM03471
33.4 SNPM00498
33.9 SNPM02459
36.0 SNPM02817
38.5 SNPM01653
41.4 SNPM04690
42.1 sEg00035
sPSc00220
45.6 SNPM04365
SNPM04665
47.4 sPSc00242
47.5 sPSc00234
47.6 sPSc00251
48.0 sPSc00232
sPSc00245
sPSc00250
48.1 sPSc00246
SNPM02234
48.3 sPSc00241
48.6 sPSc00239
48.8 sPSc00249
50.0 SNPM04251
52.3 SNPE00175
52.6 SNPM04206
52.8 sPSc00215
T128_LG1_Vir[2]
52.9 SNPE00171
53.0 SNPE00148
SNPE00204
SNPE00203
SNPE00201
SNPE00200
SNPE00174
SNPM02400
SNPE00177
53.2 SNPE00168
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SNPE00172
SNPE00152
SNPE00156
SNPE00146
SNPE00147
53.4 sPSc00214
53.8 SNPE00149
SNPE00150
54.4 SNPM03287
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54.9 SNPE00155
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55.6 SNPE00138
56.1 SNPE00137
56.6 VIR
56.7 SNPE00136
57.2 MET16
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57.3 SNPE00132
SNPE00131
SNPM01237
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SNPE00128
SNPE00124
58.3 SNPM01250
SNPM03010
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58.5 SNPE00127
58.9 SNPE00121
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SNPE00118
60.7 SNPM02708
SNPM02867
SNPE00113
T128_LG1_Vir[3]
60.7 SNPE00116
60.8 SNPE00115
60.9 SNPE00214
SNPM00572
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SNPE00111
SNPE00108
61.8 SNPE00107
SNPM04941
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64.7 SNPE00135
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65.9 SNPM02655
67.2 SNPM01582
71.6 SNPM00366
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76.1 SNPM00066
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84.2 SNPM03563
86.6 SNPM02176
89.3 SNPM04083
93.3 SNPM04010
96.1 SNPM00235
104.9 SNPE00173
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105.5 sMg00039
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111.0 SNPM00316
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111.7 SNPM03091
115.5 SNPM03226
121.0 SNPM02004
125.9 SNPM01135
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126.6 SNPM04052
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128.7 SNPM01968
129.3 SNPM03491
136.2 SNPM01818
SNPM04780
138.6 SNPM00906

FIG. 3

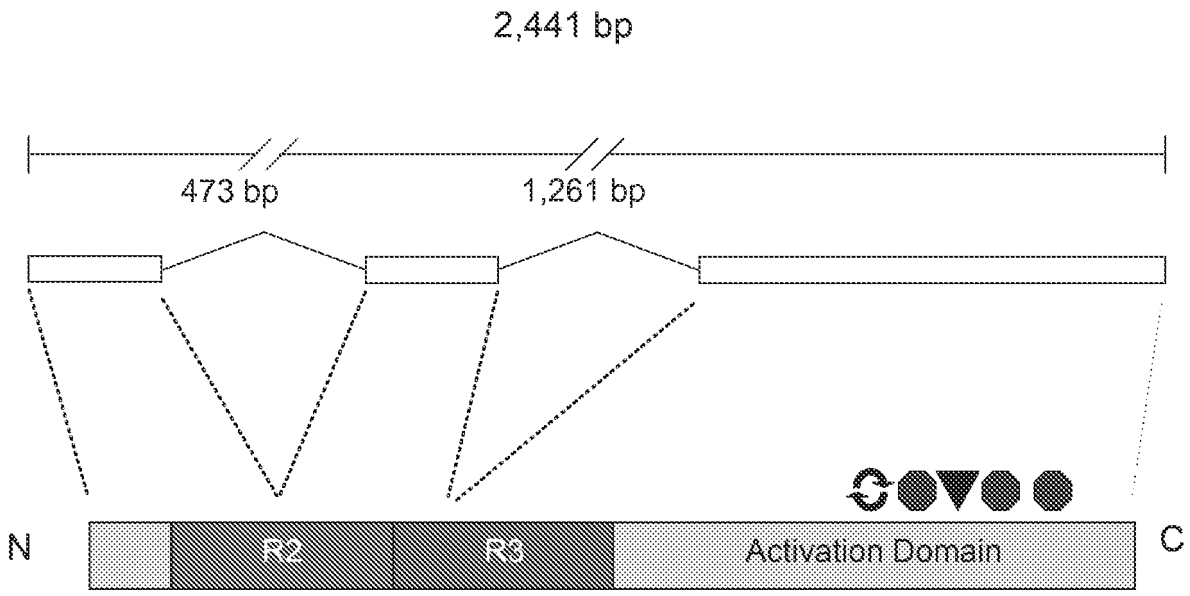


FIG. 4

a. Wild-type *VIR* cDNA sequence

ATGGGTAATTTGCGTGCCGAAGTCCAACGTCCAGCTGGTGTTCGCAAAGGAGCATGGAGTGAAGAGGAGG
ACAGGCTTCTGAGAAAGTGCGTTGAGAAATATGGCGAAGGGAACTGGCGCCATGTTCCCCAAAGGGCAGG
CCTCAGAAGGTGCCGAAAGAGCTGCCGACTACGGTGGTTGAACTATCTCAGCCCTAGGATCAACAGGGAG
AAATTTTCGGAGGAAGAAACAGATCTTATCATCAGGCTTCATAAGCTCTTGGGCAACAG**GTGGTCATTAA**
TTGCAGGTAGGCTTCCAGGCAGGACAGCAAATGACATCAAGAACTACTGGAACACTCACCTGGGCAAGAA
AGTAGAAGTTGAAAACAAGAAGGCGGAGCCCAGTGCTGATGCCAAAGTAATTAAGCCACGGCCATGGAAA
GTACCGTTGCAATGGTTATGGTCAGAAGATCAGCAATCATGTGGAAGCCAGCAGCCGCAAGAAAAGTTTG
GGATACCAGAACTACCGACAATCTCAGAGAACGATGAAGCGTGGCTGAATTGTATAATGAATGGAGATAG
AGAGAACAGTGCAGTGCCAGACGTTGGAAACGGGAGCACAATGAACCTGCAGAATGAATTTGGAATCGGA
GGCTTGGAGGAAAATAGAGATGGGGCAGTGTTTCTGGAAGGAGTTCTAGGATGGGATGACTTGCTTTGGG
CCACTATATAGTGCTCATATATGGTAGTGCAATAGTTGCCATTATAAGTTGTTTCGAACTTTAATGCTCC
TGAAATTCCCATGCAAGTATTTAGAGCTTCATATCCTACAAAAAGACAGGAAACGAGACCTTGAAAAAAG
ACTCAGTACCAGAAGGCATCCACTTATTGATTGCTTTTATACTTGCAACATGAAGGAAGCACGCTTTCTC
ACCAAAAAAAAAA

b. Event 1 Exon 3 sequence

GTGGTCATTAATTGCAGGTAGGCTTCCAGGCAGGACAGCAAATGACATCAAGAACTACTGGAACACTCACCTGGGCA
AGAAAGTAGAAGTTGAAAACAAGAAGGCGGAGCCCAGTGCTGATGCCAAAGTAATTAAGCCACGGCCATGGAAAGTA
CCGTTGCAATGGTTATGGTCAGAAGATCAGCAATCATGTGGAAGCCAGCAGCCGCAAGAAAAGTTTGGGATACCAGA
ACTACCGACAATCTCAGAGAACGATGAAGCGTGGCTGAATTGTATAATGAATGGAGATAGAGAGAACAGTGCAGTGC
CAGACGTTGGAAACGGGAGCACAATGAACCTGCAGAATGAATTTGGAATCGGAGGCTTGGAGGAAAATtGAGATGGG
GCAGTGTTTCTGGAAGGAGTTCTAGGATGGGATGACTTGCTTTGGGCCACTATATAGTGCTCATATATGGTAGTGCA
ATAGTTGCCATTATAAGTTGTTTCGAACTTTAATGCTCCTGAAATTCCCATGCAAGTATTTAGAGCTTCATATCCTA
CAAAAAGACAGGAAACGAGACCTTGAAAAAAGACTCAGTACCAGAAGGCATCCACTTATTGATTGCTTTTATACTTG
CAACATGAAGGAAGCACGCTTTCTCACCAAAAAAAAAA

c. Event 2 Exon 3 sequence

GTGGTCATTAATTGCAGGTAGGCTTCCAGGCAGGACAGCAAATGACATCAAGAACTACTGGAACACTCACCTGGGCA
AGAAAGTAGAAGTTGAAAACAAGAAGGCGGAGCCCAGTGCTGATGCCAAAGTAATTAAGCCACGGCCATGGAAAGTA
CCGTTGCAATGGTTATGGTCAGAAGATCAGCAATCATGTGGAAGCCAGCAGCCGCAAGAAAAGTTTGGGATACCAGA
ACTACCGACAATCTCAGAGAACGATGAAGCGTGGCTGAATTGTATAATGAATGGAGATAGAGAGAACAGTGCAGTGC
CAGACGTTGGAAACGGGAGCACAATGAACCTGCAGAATtAATTTGGAATCGGAGGCTTGGAGGAAAATAGAGATGGG
GCAGTGTTTCTGGAAGGAGTTCTAGGATGGGATGACTTGCTTTGGGCCACTATATAGTGCTCATATATGGTAGTGCA
ATAGTTGCCATTATAAGTTGTTTCGAACTTTAATGCTCCTGAAATTCCCATGCAAGTATTTAGAGCTTCATATCCTA
CAAAAAGACAGGAAACGAGACCTTGAAAAAAGACTCAGTACCAGAAGGCATCCACTTATTGATTGCTTTTATACTTG
CAACATGAAGGAAGCACGCTTTCTCACCAAAAAAAAAA

d. Event 3 Exon 3 sequence

GTGGTCATTAATTGCAGGTAGGCTTCCAGGCAGGACAGCAAATGACATCAAGAACTACTGGAACACTCACCTGGGCA
AGAAAGTAGAAGTTGAAAACAAGAAGGCGGAGCCCAGTGCTGATGCCAAAGTAATTAAGCCACGGCCATGGAAAGTA
CCGTTGCAATGGTTATGGTCAGAAGATCAGCAATCATGTGGAAGCCAGCAGCCGCAAGAAAAGTTTGGGATACCAGA
ACTACCGACAATCTCAGAGAACGATGAAGCGTaGCTGAATTGTATAATGAATGGAGATAGAGAGAACAGTGCAGTGC
CAGACGTTGGAAACGGGAGCACAATGAACCTGCAGAATGAATTTGGAATCGGAGGCTTGGAGGAAAATAGAGATGGG
GCAGTGTTTCTGGAAGGAGTTCTAGGATGGGATGACTTGCTTTGGGCCACTATATAGTGCTCATATATGGTAGTGCA
ATAGTTGCCATTATAAGTTGTTTCGAACTTTAATGCTCCTGAAATTCCCATGCAAGTATTTAGAGCTTCATATCCTA
CAAAAAGACAGGAAACGAGACCTTGAAAAAAGACTCAGTACCAGAAGGCATCCACTTATTGATTGCTTTTATACTTG
CAACATGAAGGAAGCACGCTTTCTCACCAAAAAAAAAA

FIG. 5

e. Event 4 Exon 3 sequence

GTGGTCATTAATTGCAGGTAGGCTTCCAGGCAGGACAGCAAATGACATCAAGAACTACTGGAACACTCACCTGGGCA
AGAAAGTAGAAGTTGAAAACAAGAAGGCGGAGCCCAGTGCTGATGCCAAAGTAATTAAGCCACGGCCATGGAAAGTA
CCGTTGCAATGGTTATGGTCAGAAGATCAGCAATCATGTGGAAGCCAGCAGCCGCAAGAAAAGTTTGGGATACCAGA
ACTACCGACAATCTCAGAGAACGATGAAGCGTGGCTGAATTGT--
AATGAATGGAGATAGAGAGAACAGTGCAGTGCCAGACGTTGGAAACGGGAGCACAATGAACCTGCAGAATGAATTTG
GAATCGGAGGCTTGGAGGAAAATAGAGATGGGGCAGTGTTTCTGGAAGGAGTTCTAGGATGGGATGACTTGCTTTGG
GCCACTATATAGTGCTCATATATGGTAGTGCAATAGTTGCCATTATAAGTTGTTTCGAACTTTAATGCTCCTGAAAT
TCCCATGCAAGTATTTAGAGCTTCATATCCTACAAAAAGACAGGAAACGAGACCTTGAAAAAAGACTCAGTACCAGA
AGGCATCCACTTATTGATTGCTTTTATACTTGCAACATGAAGGAAGCACGCTTTCTCACCAAAAAAAAAA

f. Event 5 Exon 3 sequence

GTGGTCATTAATTGCAGGTAGGCTTCCAGGCAGGACAGCAAATGACATCAAGAACTACTGGAACACTCAC
CTGGGCAAGAAAGTAGAAGTTGAAAACAAGAAGGCGGAGCCCAGTGCTGATGCCAAAGTAATTAAGCCAC
GGCCATGGAAAGTACCGTTGCAATGGTTTTGGTCAGAAGATCAGCAATCATGTGGAAGCCAGCAGCCGCA
AGAAGATTAATGCTTTGGGCCACTATATAGTGCTTATATATGGGATGACTTGCTTTGGGCCACTATATAG
TGCTTATATATGGTAGTGCAATAG

FIG. 5 (cont'd)

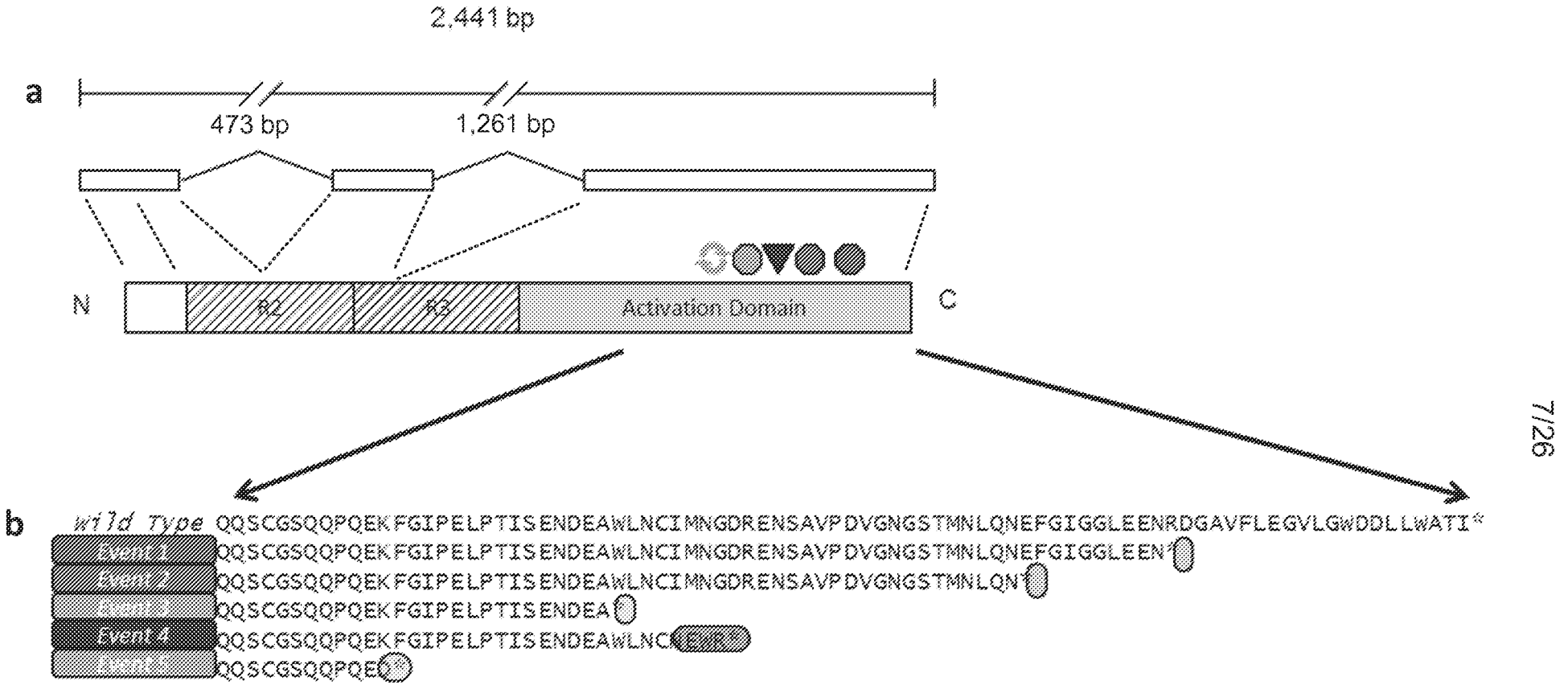

2,441 bp
a
473 bp
1,261 bp
N
R2
R3
Activation Domain
C
b
wild type QQSCGSQQPQEKFGIPELPTISENDEAWLNCIMNGDRENSAVPDVGNGSTMNLQNEFGIGGLEENRDGAVFLEGVLGWDDLLWATI*
Event 1
QQSCGSQQPQEKFGIPELPTISENDEAWLNCIMNGDRENSAVPDVGNGSTMNLQNEFGIGGLEEN*
Event 2
QQSCGSQQPQEKFGIPELPTISENDEAWLNCIMNGDRENSAVPDVGNGSTMNLQN*
Event 3
QQSCGSQQPQEKFGIPELPTISENDEA*
Event 4
QQSCGSQQPQEKFGIPELPTISENDEAWLNC
Event 5
QQSCGSQQPQE*

FIG. 6


SENEGAL
GAMBIA
SIERRA LEONE
GUINEA CONAKRY
GHANA
NIGERIA
CAMEROON
CONGO
ANGOLA
TANZANIA
MADAGASCAR
EVENT 1
EVENT 2
EVENT 3
EVENT 4
EVENT 5

FIG. 7

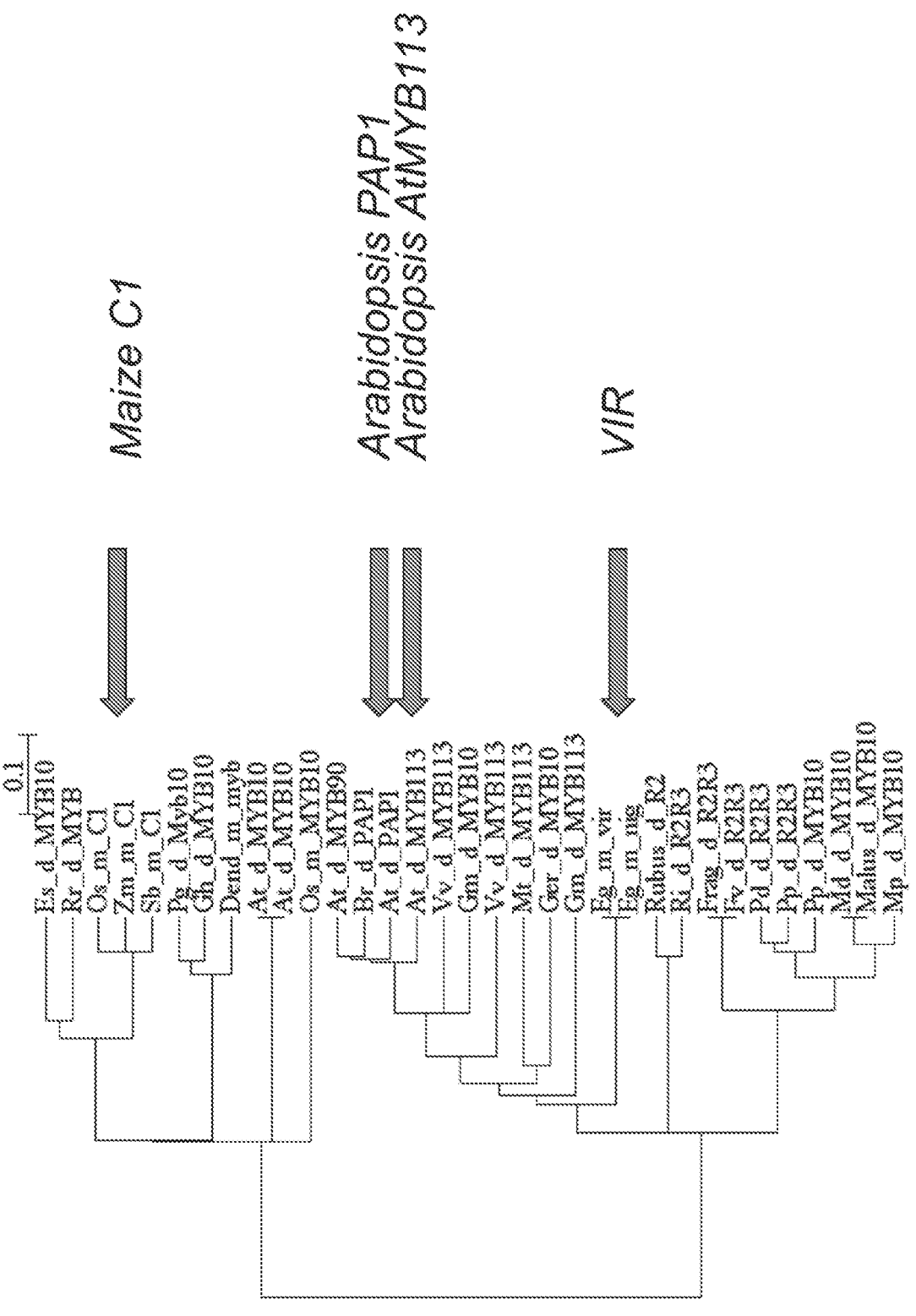

Maize C1
Arabidopsis PAP1
Arabidopsis AtMYB113
VIR
0.1
Es_d_MYB10
Rr_d_MYB
Os_m_C1
Zm_m_C1
Sb_m_C1
Pa_d_Myb10
Gh_d_MYB10
Dend_m_myb
At_d_MYB10
At_d_MYB10
Os_m_MYB10
At_d_MYB90
Br_d_PAP1
At_d_PAP1
At_d_MYB113
Vv_d_MYB113
Gm_d_MYB10
Vv_d_MYB113
Mt_d_MYB113
Ger_d_MYB10
Gm_d_MYB113
Eg_m_vir
Eg_m_nig
Rubus_d_R2
Ri_d_R2R3
Frag_d_R2R3
Fv_d_R2R3
Pd_d_R2R3
Pp_d_R2R3
Pp_d_MYB10
Md_d_MYB10
Malus_d_MYB10
Mp_d_MYB10

FIG. 8

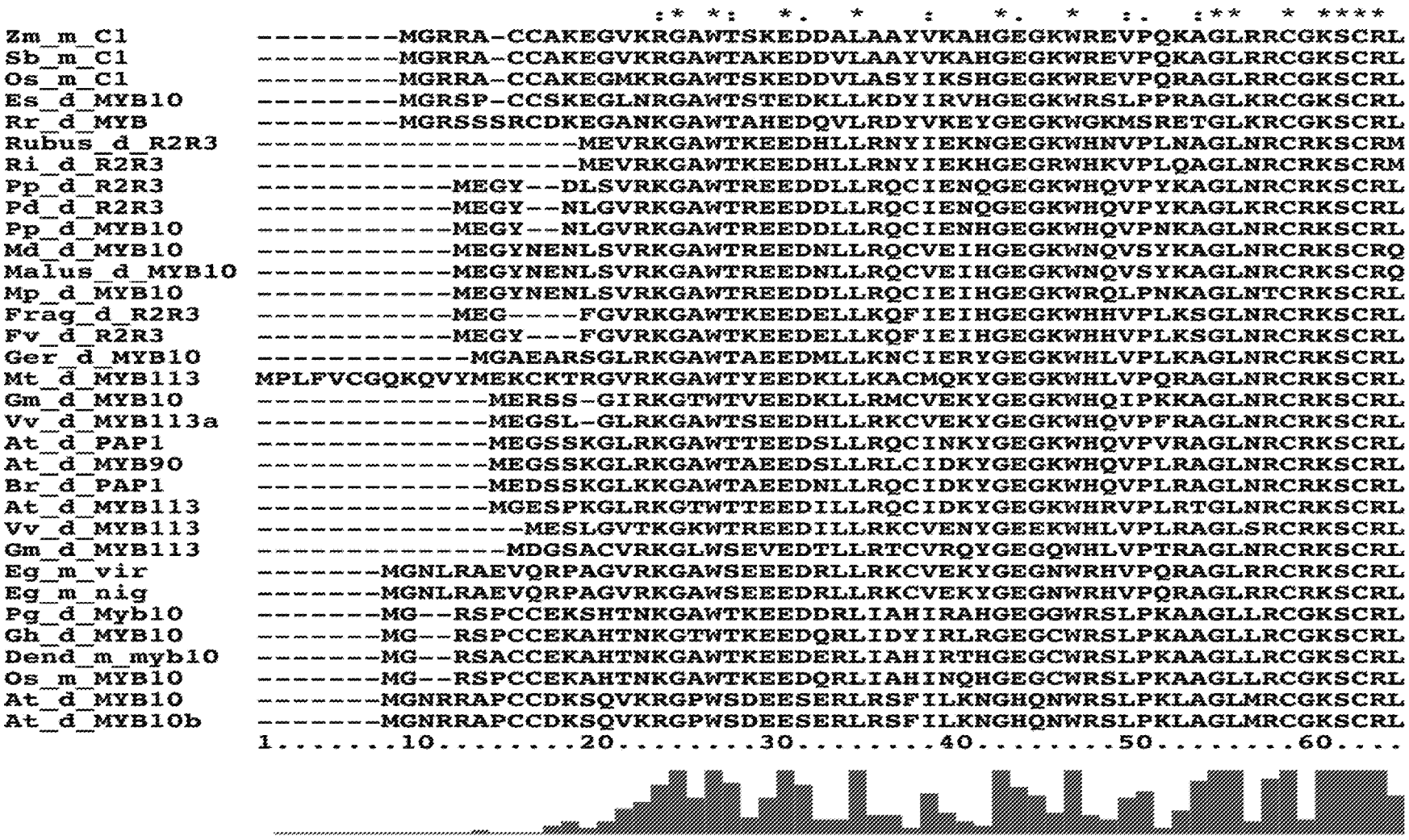

Zm_m_C1
Sb_m_C1
Os_m_C1
Es_d_MYB10
Rr_d_MYB
Rubus_d_R2R3
Ri_d_R2R3
Pp_d_R2R3
Pd_d_R2R3
Pp_d_MYB10
Md_d_MYB10
Malus_d_MYB10
Mp_d_MYB10
Frag_d_R2R3
Fv_d_R2R3
Ger_d_MYB10
Mt_d_MYB113
Gm_d_MYB10
Vv_d_MYB113a
At_d_PAP1
At_d_MYB90
Br_d_PAP1
At_d_MYB113
Vv_d_MYB113
Gm_d_MYB113
Eg_m_vir
Eg_m_nig
Pg_d_Myb10
Gh_d_MYB10
Dend_m_myb10
Os_m_MYB10
At_d_MYB10
At_d_MYB10b
1.....10.....20.....30.....40.....50.....60....

FIG. 9

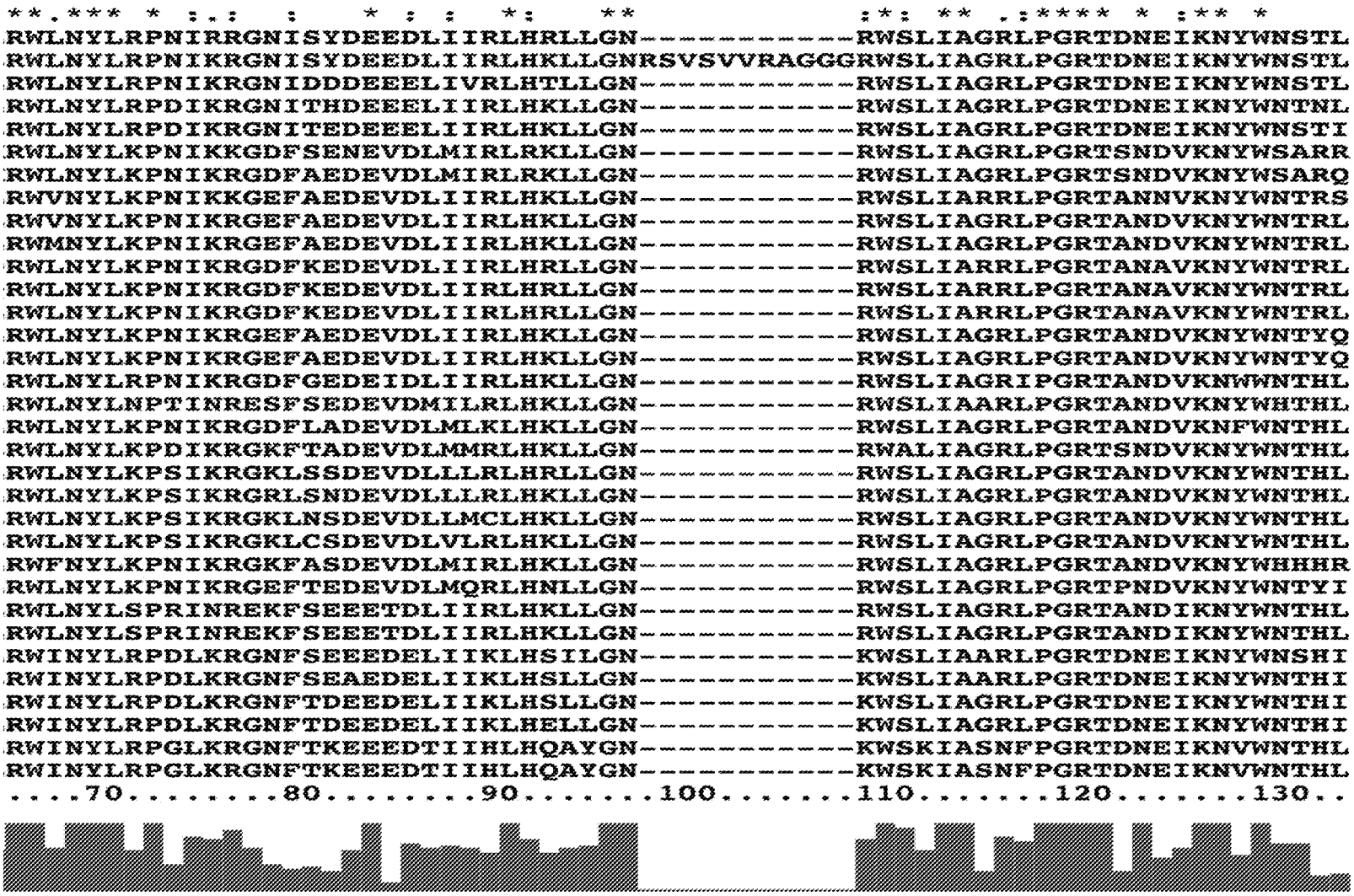

.* * :.: : * : : *: **
:*: ** .:**** * :** *
RWLNYLRPNIRRGNISYDEEDLIIRLHRLLGN----------RWSLIAGRLPGRTDNEIKNYWNSTL 112
RWLNYLRPNIKRGNISYDEEDLIIRLHKLLGNRSVSVVRAGGGRWSLIAGRLPGRTDNEIKNYWNSTL 123
RWLNYLRPNIKRGNIDDDEEELIVRLHTLLGN----------RWSLIAGRLPGRTDNEIKNYWNSTL 112
RWLNYLRPDIKRGNITHDEEELIIRLHKLLGN----------RWSLIAGRLPGRTDNEIKNYWNTNL 112
RWLNYLRPDIKRGNITEDEEELIIRLHKLLGN----------RWSLIAGRLPGRTDNEIKNYWNSTI 113
RWLNYLKPNIKKGDFSENEVDLMIRLRKLLGN----------RWSLIAGRLPGRTSNDVKNYWSARR 103
RWLNYLKPNIKRGDFAEDEVDLMIRLRKLLGN----------RWSLIAGRLPGRTSNDVKNYWSARQ 103
RWVNYLKPNIKKGEFAEDEVDLIIRLHKLLGN----------RWSLIARRLPGRTANNVKNYWNTRS 108
RWVNYLKPNIKRGEFAEDEVDLIIRLHKLLGN----------RWSLIAGRLPGRTANDVKNYWNTRL 108
RWMNYLKPNIKRGEFAEDEVDLIIRLHKLLGN----------RWSLIAGRLPGRTANDVKNYWNTRL 108
RWLNYLKPNIKRGDFKEDEVDLIIRLHRLLGN----------RWSLIARRLPGRTANAVKNYWNTRL 110
RWLNYLKPNIKRGDFKEDEVDLIIRLHRLLGN----------RWSLIARRLPGRTANAVKNYWNTRL 110
RWLNYLKPNIKRGDFKEDEVDLIIRLHRLLGN----------RWSLIARRLPGRTANAVKNYWNTRL 110
RWLNYLKPNIKRGEFAEDEVDLIIRLHKLLGN----------RWSLIAGRLPGRTANDVKNYWNTYQ 106
RWLNYLKPNIKRGEFAEDEVDLIIRLHKLLGN----------RWSLIAGRLPGRTANDVKNYWNTYQ 107
RWLNYLRPNIKRGDFGEDEIDLIIRLHKLLGN----------RWSLIAGRIPGRTANDVKNWWNTHL 109
RWLNYILNPTINRESFSEDEVDMILRLRLHKLLGN----------RWSLIAARLPGRTANDVKNYWHTHL 121
RWLNYLKPNIKRGDFLADEVDLMLKLHKLLGN----------RWSLIAGRLPGRTANDVKNFWNTHL 107
RWLNYLKPDIKRGKFTADEVDLMMRLHKLLGN----------RWALIAGRLPGRTSNDVKNYWNTHL 107
RWLNYLKPSIKRGKLSSDEVDLLLLRLHRLLGN----------RWSLIAGRLPGRTANDVKNYWNTHL 108
RWLNYLKPSIKRGRLSNDEVDLLLLRLHKLLGN----------RWSLIAGRLPGRTANDVKNYWNTHL 108
RWLNYLKPSIKRGKLNSDEVDLLMCLHKLLGN----------RWSLIAGRLPGRTANDVKNYWNTHL 108
RWLNYLKPSIKRGKLCSDEVDLVLRLHKLLGN----------RWSLIAGRLPGRTANDVKNYWNTHL 108
RWFNYLKPNIKRGKFASDEVDLMIRLHKLLGN----------RWSLIAGRLPGRTANDVKNYWHHHR 106
RWLNYLKPNIKRGEFTEDEVDLMQRLHNLLGN----------RWSLIAGRLPGRTPNDVKNYWNTYI 107
RWLNYLSPRINREKFSEEETDLIIRLHKLLGN----------RWSLIAGRLPGRTANDIKNYWNTHL 114
RWLNYLSPRINREKFSEEETDLIIRLHKLLGN----------RWSLIAGRLPGRTANDIKNYWNTHL 114
RWINYLRPDLKRGNFSEEEDELIIKLHSILGN----------KWSLIAARLPGRTDNEIKNYWNSHI 112
RWINYLRPDLKRGNFSEAEDELIIKLHSLLGN----------KWSLIAARLPGRTDNEIKNYWNTHI 112
RWINYLRPDLKRGNFTDEEDELIIKLHSLLGN----------KWSLIAGRLPGRTDNEIKNYWNTHI 112
RWINYLRPDLKRGNFTDEEDELIIKLHELLGN----------KWSLIAGRLPGRTDNEIKNYWNTHI 112
RWINYLRPGLKRGNFTKEEEDTIIHLHQAYGN----------KWSKIASNFPGRTDNEIKNVWNTHL 114
RWINYLRPGLKRGNFTKEEEDTIIHLHQAYGN----------KWSKIASNFPGRTDNEIKNVWNTHL 114
....70.....80.....90.....100.....110.....120.....130..

FIG. 9 (cont'd)

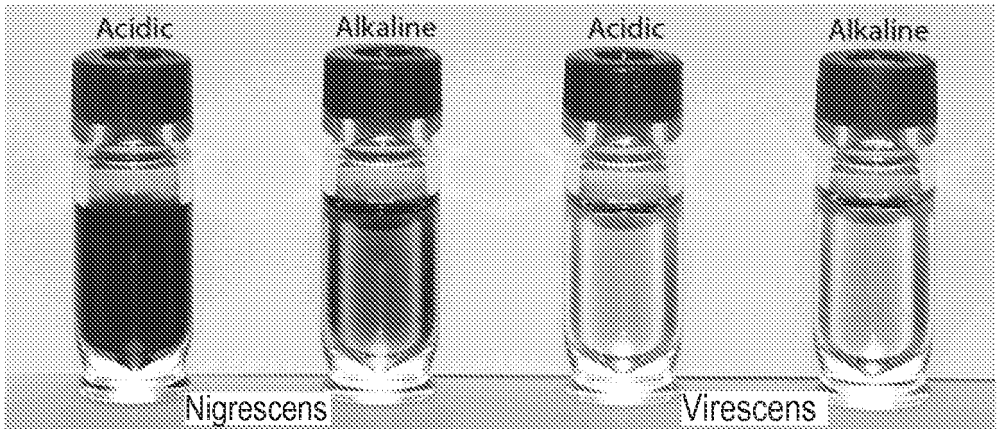


FIG. 10A

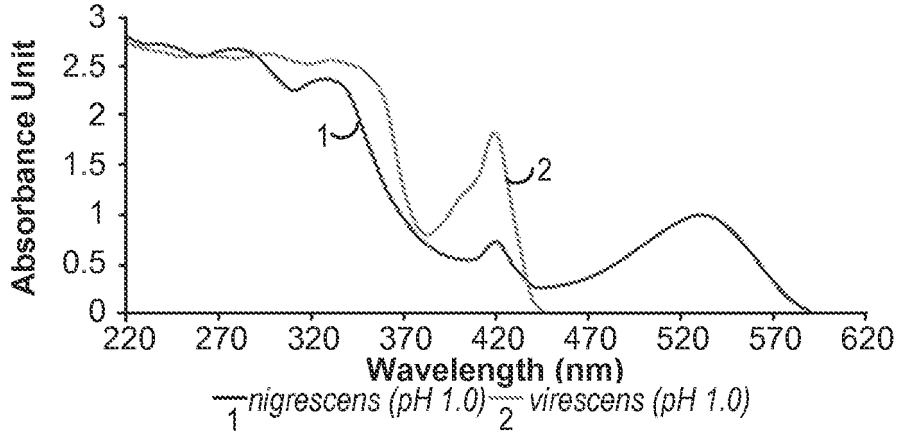


FIG. 10B

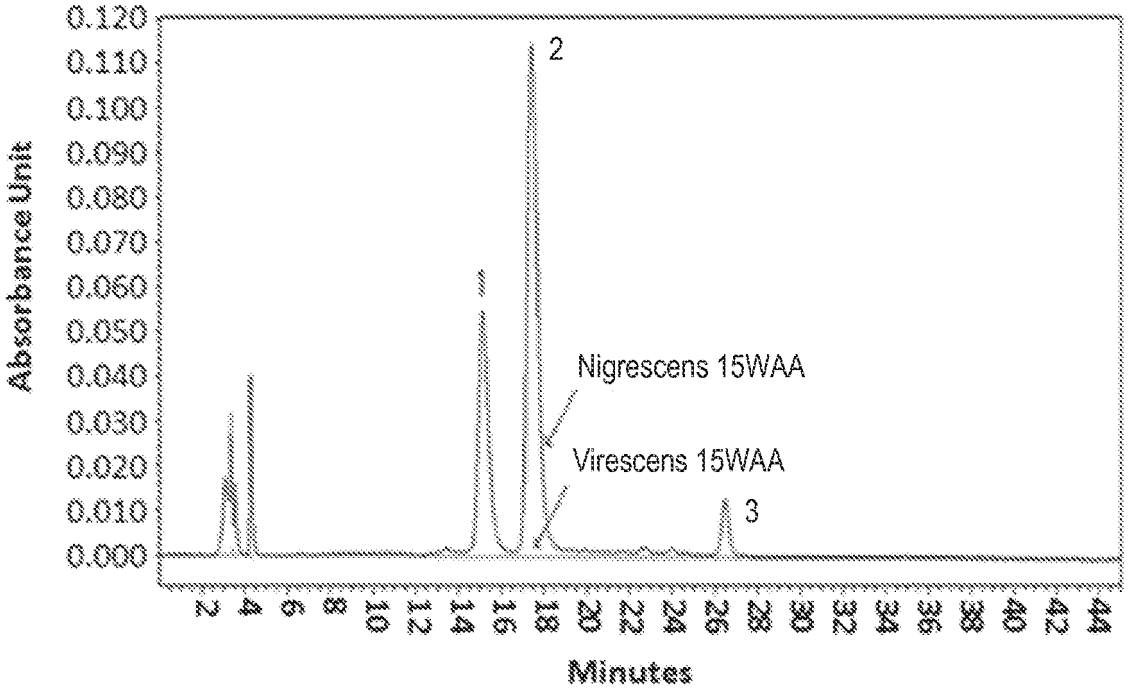


FIG. 10C

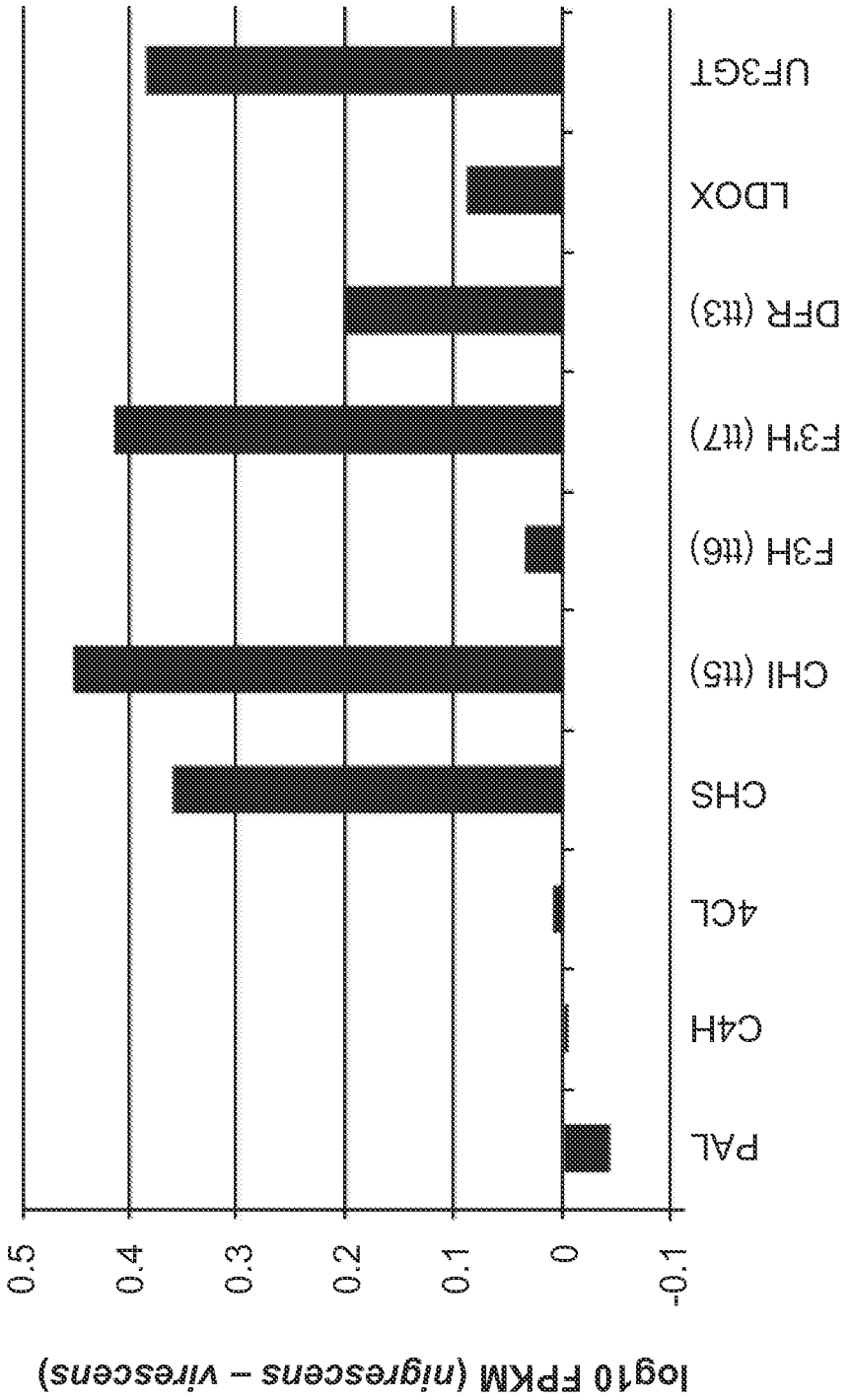

log10 FPKM (nigrescens – virescens)
0.5
0.4
0.3
0.2
0.1
0
-0.1
PAL
C4H
4CL
CHS
CHI (tt5)
F3H (tt6)
F3'H (tt7)
DFR (tt3)
LDOX
UF3GT

FIG. 10D

Figure: Alignment of Wild Type and Five Mutant Alleles

```
          RTPAP1_mrna     0 ATGGGTAATTTGCGTGCCGAAGTCCAACGTCCAGCTGGTGTTCGCAAAGG
                SNP_1     0 ATGGGTAATTTGCGTGCCGAAGTCCAACGTCCAGCTGGTGTTCGCAAAGG
                SNP_2     0 ATGGGTAATTTGCGTGCCGAAGTCCAACGTCCAGCTGGTGTTCGCAAAGG
                SNP_3     0 ATGGGTAATTTGCGTGCCGAAGTCCAACGTCCAGCTGGTGTTCGCAAAGG
                SNP_4     0 ATGGGTAATTTGCGTGCCGAAGTCCAACGTCCAGCTGGTGTTCGCAAAGG
                SNP_5     0 ATGGGTAATTTGCGTGCCGAAGTCCAACGTCCAGCTGGTGTTCGCAAAGG
        RTPAP1_mrnaAA     0 MetGlyAsnLeuArgAlaGluValGlnArgProAlaGlyValArgLysGl
              SNP_1AA     0 MetGlyAsnLeuArgAlaGluValGlnArgProAlaGlyValArgLysGl
              SNP_2AA     0 MetGlyAsnLeuArgAlaGluValGlnArgProAlaGlyValArgLysGl
              SNP_3AA     0 MetGlyAsnLeuArgAlaGluValGlnArgProAlaGlyValArgLysGl
              SNP_4AA     0 MetGlyAsnLeuArgAlaGluValGlnArgProAlaGlyValArgLysGl
              SNP_5AA     0 MetGlyAsnLeuArgAlaGluValGlnArgProAlaGlyValArgLysGl
                          |---------|---------|---------|---------|---------
                          1         11        21        31        41

          RTPAP1_mrna    50 AGCATGGAGTGAAGAGGAGGACAGGCTTCTGAGAAAGTGCGTTGAGAAAT
                SNP_1    50 AGCATGGAGTGAAGAGGAGGACAGGCTTCTGAGAAAGTGCGTTGAGAAAT
                SNP_2    50 AGCATGGAGTGAAGAGGAGGACAGGCTTCTGAGAAAGTGCGTTGAGAAAT
                SNP_3    50 AGCATGGAGTGAAGAGGAGGACAGGCTTCTGAGAAAGTGCGTTGAGAAAT
                SNP_4    50 AGCATGGAGTGAAGAGGAGGACAGGCTTCTGAGAAAGTGCGTTGAGAAAT
                SNP_5    50 AGCATGGAGTGAAGAGGAGGACAGGCTTCTGAGAAAGTGCGTTGAGAAAT
        RTPAP1_mrnaAA    50 yAlaTrpSerGluGluGluAspArgLeuLeuArgLysCysValGluLysT
              SNP_1AA    50 yAlaTrpSerGluGluGluAspArgLeuLeuArgLysCysValGluLysT
              SNP_2AA    50 yAlaTrpSerGluGluGluAspArgLeuLeuArgLysCysValGluLysT
              SNP_3AA    50 yAlaTrpSerGluGluGluAspArgLeuLeuArgLysCysValGluLysT
              SNP_4AA    50 yAlaTrpSerGluGluGluAspArgLeuLeuArgLysCysValGluLysT
              SNP_5AA    50 yAlaTrpSerGluGluGluAspArgLeuLeuArgLysCysValGluLysT
                          |---------|---------|---------|---------|---------
                          51        61        71        81        91

          RTPAP1_mrna   100 ATGGCGAAGGGAACTGGCGCCATGTTCCCCAAAGGGCAGGCCTCAGAAGG
                SNP_1   100 ATGGCGAAGGGAACTGGCGCCATGTTCCCCAAAGGGCAGGCCTCAGAAGG
                SNP_2   100 ATGGCGAAGGGAACTGGCGCCATGTTCCCCAAAGGGCAGGCCTCAGAAGG
                SNP_3   100 ATGGCGAAGGGAACTGGCGCCATGTTCCCCAAAGGGCAGGCCTCAGAAGG
                SNP_4   100 ATGGCGAAGGGAACTGGCGCCATGTTCCCCAAAGGGCAGGCCTCAGAAGG
                SNP_5   100 ATGGCGAAGGGAACTGGCGCCATGTTCCCCAAAGGGCAGGCCTCAGAAGG
        RTPAP1_mrnaAA   100 yrGlyGluGlyAsnTrpArgHisValProGlnArgAlaGlyLeuArgArg
              SNP_1AA   100 yrGlyGluGlyAsnTrpArgHisValProGlnArgAlaGlyLeuArgArg
              SNP_2AA   100 yrGlyGluGlyAsnTrpArgHisValProGlnArgAlaGlyLeuArgArg
              SNP_3AA   100 yrGlyGluGlyAsnTrpArgHisValProGlnArgAlaGlyLeuArgArg
              SNP_4AA   100 yrGlyGluGlyAsnTrpArgHisValProGlnArgAlaGlyLeuArgArg
              SNP_5AA   100 yrGlyGluGlyAsnTrpArgHisValProGlnArgAlaGlyLeuArgArg
                          |---------|---------|---------|---------|---------
                          101       111       121       131       141

          RTPAP1_mrna   150 TGCCGAAAGAGCTGCCGACTACGGTGGTTGAACTATCTCAGCCCTAGGAT
                SNP_1   150 TGCCGAAAGAGCTGCCGACTACGGTGGTTGAACTATCTCAGCCCTAGGAT
                SNP_2   150 TGCCGAAAGAGCTGCCGACTACGGTGGTTGAACTATCTCAGCCCTAGGAT
                SNP_3   150 TGCCGAAAGAGCTGCCGACTACGGTGGTTGAACTATCTCAGCCCTAGGAT
                SNP_4   150 TGCCGAAAGAGCTGCCGACTACGGTGGTTGAACTATCTCAGCCCTAGGAT
                SNP_5   150 TGCCGAAAGAGCTGCCGACTACGGTGGTTGAACTATCTCAGCCCTAGGAT
        RTPAP1_mrnaAA   150 CysArgLysSerCysArgLeuArgTrpLeuAsnTyrLeuSerProArgIl
              SNP_1AA   150 CysArgLysSerCysArgLeuArgTrpLeuAsnTyrLeuSerProArgIl
              SNP_2AA   150 CysArgLysSerCysArgLeuArgTrpLeuAsnTyrLeuSerProArgIl
              SNP_3AA   150 CysArgLysSerCysArgLeuArgTrpLeuAsnTyrLeuSerProArgIl
              SNP_4AA   150 CysArgLysSerCysArgLeuArgTrpLeuAsnTyrLeuSerProArgIl
              SNP_5AA   150 CysArgLysSerCysArgLeuArgTrpLeuAsnTyrLeuSerProArgIl
                          |---------|---------|---------|---------|---------
                          151       161       171       181       191
```

FIG. 11

```
RTPAP1_mrna  200 CAACAGGGAGAAATTTTCGGAGGAAGAAACAGATCTTATCATCAGGCTTC
       SNP_1  200 CAACAGGGAGAAATTTTCGGAGGAAGAAACAGATCTTATCATCAGGCTTC
       SNP_2  200 CAACAGGGAGAAATTTTCGGAGGAAGAAACAGATCTTATCATCAGGCTTC
       SNP_3  200 CAACAGGGAGAAATTTTCGGAGGAAGAAACAGATCTTATCATCAGGCTTC
       SNP_4  200 CAACAGGGAGAAATTTTCGGAGGAAGAAACAGATCTTATCATCAGGCTTC
       SNP_5  200 CAACAGGGAGAAATTTTCGGAGGAAGAAACAGATCTTATCATCAGGCTTC
RTPAP1_mrnaAA 200 eAsnArgGluLysPheSerGluGluGluThrAspLeuIleIleArgLeuH
      SNP_1AA 200 eAsnArgGluLysPheSerGluGluGluThrAspLeuIleIleArgLeuH
      SNP_2AA 200 eAsnArgGluLysPheSerGluGluGluThrAspLeuIleIleArgLeuH
      SNP_3AA 200 eAsnArgGluLysPheSerGluGluGluThrAspLeuIleIleArgLeuH
      SNP_4AA 200 eAsnArgGluLysPheSerGluGluGluThrAspLeuIleIleArgLeuH
      SNP_5AA 200 eAsnArgGluLysPheSerGluGluGluThrAspLeuIleIleArgLeuH
                  |----------|----------|----------|----------|----------
                  201        211        221        231        241

RTPAP1_mrna  250 ATAAGCTCTTGGGCAACAGGTGGTCATTAATTGCAGGTAGGCTTCCAGGC
       SNP_1  250 ATAAGCTCTTGGGCAACAGGTGGTCATTAATTGCAGGTAGGCTTCCAGGC
       SNP_2  250 ATAAGCTCTTGGGCAACAGGTGGTCATTAATTGCAGGTAGGCTTCCAGGC
       SNP_3  250 ATAAGCTCTTGGGCAACAGGTGGTCATTAATTGCAGGTAGGCTTCCAGGC
       SNP_4  250 ATAAGCTCTTGGGCAACAGGTGGTCATTAATTGCAGGTAGGCTTCCAGGC
       SNP_5  250 ATAAGCTCTTGGGCAACAGGTGGTCATTAATTGCAGGTAGGCTTCCAGGC
RTPAP1_mrnaAA 250 isLysLeuLeuGlyAsnArgTrpSerLeuIleAlaGlyArgLeuProGly
      SNP_1AA 250 isLysLeuLeuGlyAsnArgTrpSerLeuIleAlaGlyArgLeuProGly
      SNP_2AA 250 isLysLeuLeuGlyAsnArgTrpSerLeuIleAlaGlyArgLeuProGly
      SNP_3AA 250 isLysLeuLeuGlyAsnArgTrpSerLeuIleAlaGlyArgLeuProGly
      SNP_4AA 250 isLysLeuLeuGlyAsnArgTrpSerLeuIleAlaGlyArgLeuProGly
      SNP_5AA 250 isLysLeuLeuGlyAsnArgTrpSerLeuIleAlaGlyArgLeuProGly
                  |---------|---------|---------|---------|---------
                  251       261       271       281       291

RTPAP1_mrna  300 AGGACAGCAAATGACATCAAGAACTACTGGAACACTCACCTGGGCAAGAA
       SNP_1  300 AGGACAGCAAATGACATCAAGAACTACTGGAACACTCACCTGGGCAAGAA
       SNP_2  300 AGGACAGCAAATGACATCAAGAACTACTGGAACACTCACCTGGGCAAGAA
       SNP_3  300 AGGACAGCAAATGACATCAAGAACTACTGGAACACTCACCTGGGCAAGAA
       SNP_4  300 AGGACAGCAAATGACATCAAGAACTACTGGAACACTCACCTGGGCAAGAA
       SNP_5  300 AGGACAGCAAATGACATCAAGAACTACTGGAACACTCACCTGGGCAAGAA
RTPAP1_mrnaAA 300 ArgThrAlaAsnAspIleLysAsnTyrTrpAsnThrHisLeuGlyLysLy
      SNP_1AA 300 ArgThrAlaAsnAspIleLysAsnTyrTrpAsnThrHisLeuGlyLysLy
      SNP_2AA 300 ArgThrAlaAsnAspIleLysAsnTyrTrpAsnThrHisLeuGlyLysLy
      SNP_3AA 300 ArgThrAlaAsnAspIleLysAsnTyrTrpAsnThrHisLeuGlyLysLy
      SNP_4AA 300 ArgThrAlaAsnAspIleLysAsnTyrTrpAsnThrHisLeuGlyLysLy
      SNP_5AA 300 ArgThrAlaAsnAspIleLysAsnTyrTrpAsnThrHisLeuGlyLysLy
                  |---------|---------|---------|---------|---------
                  301       311       321       331       341

RTPAP1_mrna  350 AGTAGAAGTTGAAAACAAGAAGGCGGAGCCCAGTGCTGATGCCAAAGTAA
       SNP_1  350 AGTAGAAGTTGAAAACAAGAAGGCGGAGCCCAGTGCTGATGCCAAAGTAA
       SNP_2  350 AGTAGAAGTTGAAAACAAGAAGGCGGAGCCCAGTGCTGATGCCAAAGTAA
       SNP_3  350 AGTAGAAGTTGAAAACAAGAAGGCGGAGCCCAGTGCTGATGCCAAAGTAA
       SNP_4  350 AGTAGAAGTTGAAAACAAGAAGGCGGAGCCCAGTGCTGATGCCAAAGTAA
       SNP_5  350 AGTAGAAGTTGAAAACAAGAAGGCGGAGCCCAGTGCTGATGCCAAAGTAA
RTPAP1_mrnaAA 350 sValGluValGluAsnLysLysAlaGluProSerAlaAspAlaLysValI
      SNP_1AA 350 sValGluValGluAsnLysLysAlaGluProSerAlaAspAlaLysValI
      SNP_2AA 350 sValGluValGluAsnLysLysAlaGluProSerAlaAspAlaLysValI
      SNP_3AA 350 sValGluValGluAsnLysLysAlaGluProSerAlaAspAlaLysValI
      SNP_4AA 350 sValGluValGluAsnLysLysAlaGluProSerAlaAspAlaLysValI
      SNP_5AA 350 sValGluValGluAsnLysLysAlaGluProSerAlaAspAlaLysValI
                  |----------|----------|----------|----------|----------
                  351        361        371        381        391
```

FIG. 11 (cont'd)

```
RTPAP1_mrna   400 TTAAGCCACGGCCATGGAAAGTACCGTTGCAATGGTTATGGTCAGAAGAT
       SNP_1  400 TTAAGCCACGGCCATGGAAAGTACCGTTGCAATGGTTATGGTCAGAAGAT
       SNP_2  400 TTAAGCCACGGCCATGGAAAGTACCGTTGCAATGGTTATGGTCAGAAGAT
       SNP_3  400 TTAAGCCACGGCCATGGAAAGTACCGTTGCAATGGTTATGGTCAGAAGAT
       SNP_4  400 TTAAGCCACGGCCATGGAAAGTACCGTTGCAATGGTTATGGTCAGAAGAT
       SNP_5  400 TTAAGCCACGGCCATGGAAAGTACCGTTGCAATGGTTATGGTCAGAAGAT
RTPAP1_mrnaAA 400 leLysProArgProTrpLysValProLeuGlnTrpLeuTrpSerGluAsp
     SNP_1AA  400 leLysProArgProTrpLysValProLeuGlnTrpLeuTrpSerGluAsp
     SNP_2AA  400 leLysProArgProTrpLysValProLeuGlnTrpLeuTrpSerGluAsp
     SNP_3AA  400 leLysProArgProTrpLysValProLeuGlnTrpLeuTrpSerGluAsp
     SNP_4AA  400 leLysProArgProTrpLysValProLeuGlnTrpLeuTrpSerGluAsp
     SNP_5AA  400 leLysProArgProTrpLysValProLeuGlnTrpLeuTrpSerGluAsp
                  |---------|---------|---------|---------|---------
                  401       411       421       431       441

RTPAP1_mrna   450 CAGCAATCATGTGGAAGCCAGCAGCCGCAAGAAAAGTTTGGGATACCAGA
       SNP_1  450 CAGCAATCATGTGGAAGCCAGCAGCCGCAAGAAAAGTTTGGGATACCAGA
       SNP_2  450 CAGCAATCATGTGGAAGCCAGCAGCCGCAAGAAAAGTTTGGGATACCAGA
       SNP_3  450 CAGCAATCATGTGGAAGCCAGCAGCCGCAAGAAAAGTTTGGGATACCAGA
       SNP_4  450 CAGCAATCATGTGGAAGCCAGCAGCCGCAAGAAAAGTTTGGGATACCAGA
       SNP_5  450 CAGCAATCATGTGGAAGCCAGCAGCCGCAAGAA----------GAT-------
RTPAP1_mrnaAA 450 GlnGlnSerCysGlySerGlnGlnProGlnGluLysPheGlyIleProGl
     SNP_1AA  450 GlnGlnSerCysGlySerGlnGlnProGlnGluLysPheGlyIleProGl
     SNP_2AA  450 GlnGlnSerCysGlySerGlnGlnProGlnGluLysPheGlyIleProGl
     SNP_3AA  450 GlnGlnSerCysGlySerGlnGlnProGlnGluLysPheGlyIleProGl
     SNP_4AA  450 GlnGlnSerCysGlySerGlnGlnProGlnGluLysPheGlyIleProGl
     SNP_5AA  450 GlnGlnSerCysGlySerGlnGlnProGlnGluAspTer
                  |---------|---------|---------|---------|---------
                  451       461       471       481       491

RTPAP1_mrna   500 ACTACCGACAATCTCAGAGAACGATGAAGCGTGGCTGAATTGTATAATGA
       SNP_1  500 ACTACCGACAATCTCAGAGAACGATGAAGCGTGGCTGAATTGTATAATGA
       SNP_2  500 ACTACCGACAATCTCAGAGAACGATGAAGCGTGGCTGAATTGTATAATGA
       SNP_3  500 ACTACCGACAATCTCAGAGAACGATGAAGCGTaGCTGAATTGTATAATGA
       SNP_4  500 ACTACCGACAATCTCAGAGAACGATGAAGCGTGGCTGAATTGTA--ATGA
       SNP_5  486 ----------------------------------------------TAATG-
RTPAP1_mrnaAA 500 uLeuProThrIleSerGluAsnAspGluAlaTrpLeuAsnCysIleMetA
     SNP_1AA  500 uLeuProThrIleSerGluAsnAspGluAlaTrpLeuAsnCysIleMetA
     SNP_2AA  500 uLeuProThrIleSerGluAsnAspGluAlaTrpLeuAsnCysIleMetA
     SNP_3AA  500 uLeuProThrIleSerGluAsnAspGluAlaTer
     SNP_4AA  500 uLeuProThrIleSerGluAsnAspGluAlaTrpLeuAsnCysAsn-Gl
     SNP_5AA  486
                  |---------|---------|---------|---------|---------
                  501       511       521       531       541

RTPAP1_mrna   550 ATGGAGATAGAGAGAACAGTGCAGTGCCAGACGTTGGAAACGGGAGCACA
       SNP_1  550 ATGGAGATAGAGAGAACAGTGCAGTGCCAGACGTTGGAAACGGGAGCACA
       SNP_2  550 ATGGAGATAGAGAGAACAGTGCAGTGCCAGACGTTGGAAACGGGAGCACA
       SNP_3  550 ATGGAGATAGAGAGAACAGTGCAGTGCCAGACGTTGGAAACGGGAGCACA
       SNP_4  548 ATGGAGATAGAGAGAACAGTGCAGTGCCAGACGTTGGAAACGGGAGCACA
       SNP_5  491 ----------------------------------CtTTGGGC---------CACt
RTPAP1_mrnaAA 550 snGlyAspArgGluAsnSerAlaValProAspValGlyAsnGlySerThr
     SNP_1AA  550 snGlyAspArgGluAsnSerAlaValProAspValGlyAsnGlySerThr
     SNP_2AA  550 snGlyAspArgGluAsnSerAlaValProAspValGlyAsnGlySerThr
     SNP_3AA  550
     SNP_4AA  548 uTrpArgTer
     SNP_5AA  491
                  |---------|---------|---------|---------|---------
                  551       561       571       581       591
```

FIG. 11 (cont'd)

```
RTPAP1_mrna   600 ATGAACCTGCAGAATGAATTTGGAATCGGAGGCTTGGAGGAAAATAGAGA
      SNP_1   600 ATGAACCTGCAGAATGAATTTGGAATCGGAGGCTTGGAGGAAAATtGAGA
      SNP_2   600 ATGAACCTGCAGAATtAATTTGGAATCGGAGGCTTGGAGGAAAATAGAGA
      SNP_3   600 ATGAACCTGCAGAATGAATTTGGAATCGGAGGCTTGGAGGAAAATAGAGA
      SNP_4   598 ATGAACCTGCAGAATGAATTTGGAATCGGAGGCTTGGAGGAAAATAGAGA
      SNP_5   503 ATa----------------------------------------------
RTPAP1_mrnaAA 600 MetAsnLeuGlnAsnGluPheGlyIleGlyGlyLeuGluGluAsnArgAs
     SNP_1AA  600 MetAsnLeuGlnAsnGluPheGlyIleGlyGlyLeuGluGluAsnTer
     SNP_2AA  600 MetAsnLeuGlnAsnTer
     SNP_3AA  600
     SNP_4AA  598
     SNP_5AA  503
                  |---------|---------|---------|---------|---------
                  601       611       621       631       641

RTPAP1_mrna   650 TGGGGCAGTGTTTCTGGAAGGAGTTCTAGGATGGGATGACTTGCTTTGGG
      SNP_1   650 TGGGGCAGTGTTTCTGGAAGGAGTTCTAGGATGGGATGACTTGCTTTGGG
      SNP_2   650 TGGGGCAGTGTTTCTGGAAGGAGTTCTAGGATGGGATGACTTGCTTTGGG
      SNP_3   650 TGGGGCAGTGTTTCTGGAAGGAGTTCTAGGATGGGATGACTTGCTTTGGG
      SNP_4   648 TGGGGCAGTGTTTCTGGAAGGAGTTCTAGGATGGGATGACTTGCTTTGGG
      SNP_5   506 -------tAGTGcTTaTatA----------------TGGGATGACTTGCTTTGGG
RTPAP1_mrnaAA 650 pGlyAlaValPheLeuGluGlyValLeuGlyTrpAspAspLeuLeuTrpA
     SNP_1AA  650
     SNP_2AA  650
     SNP_3AA  650
     SNP_4AA  648
     SNP_5AA  506
                  |---------|---------|---------|---------|---------
                  651       661       671       681       691

RTPAP1_mrna   700 CCACTATATAGTGCTCATATATGGTAGTGCAATAGTTGCCATTATAAGTT
      SNP_1   700 CCACTATATAGTGCTCATATATGGTAGTGCAATAGTTGCCATTATAAGTT
      SNP_2   700 CCACTATATAGTGCTCATATATGGTAGTGCAATAGTTGCCATTATAAGTT
      SNP_3   700 CCACTATATAGTGCTCATATATGGTAGTGCAATAGTTGCCATTATAAGTT
      SNP_4   698 CCACTATATAGTGCTCATATATGGTAGTGCAATAGTTGCCATTATAAGTT
      SNP_5   538 CCACTATATAGTGCTtATATATGGTAGTGCAATAGTTGCCATTATAAGTT
RTPAP1_mrnaAA 700 laThrIleTer
     SNP_1AA  700
     SNP_2AA  700
     SNP_3AA  700
     SNP_4AA  698
     SNP_5AA  538
                  |---------|---------|---------|---------|---------
                  701       711       721       731       741

RTPAP1_mrna   750 GTTTCGAACTTTAATGCTCCTGAAATTCCCATGCAAGTATTTAGAGCTTC
      SNP_1   750 GTTTCGAACTTTAATGCTCCTGAAATTCCCATGCAAGTATTTAGAGCTTC
      SNP_2   750 GTTTCGAACTTTAATGCTCCTGAAATTCCCATGCAAGTATTTAGAGCTTC
      SNP_3   750 GTTTCGAACTTTAATGCTCCTGAAATTCCCATGCAAGTATTTAGAGCTTC
      SNP_4   748 GTTTCGAACTTTAATGCTCCTGAAATTCCCATGCAAGTATTTAGAGCTTC
      SNP_5   588 GTTTCGAACTTTAATGCTCCTGAAATTCCCATGCAAGTATTTAGAGCTTC
RTPAP1_mrnaAA 750
     SNP_1AA  750
     SNP_2AA  750
     SNP_3AA  750
     SNP_4AA  748
     SNP_5AA  588
                  |---------|---------|---------|---------|---------
                  751       761       771       781       791
```

FIG. 11 (cont'd)

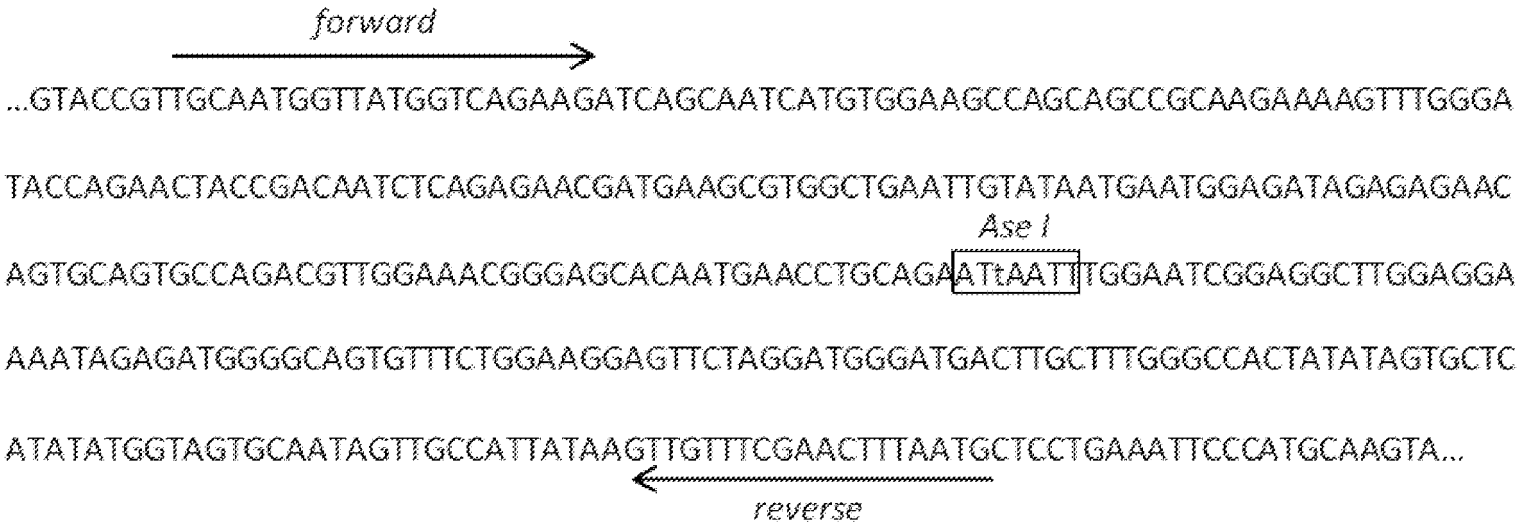
```
  RTPAP1_mrna  800 ATATCCTACAAAAAGACAGGAAACGAGACCTTGAAAAAAGACTCAGTACC
        SNP_1  800 ATATCCTACAAAAAGACAGGAAACGAGACCTTGAAAAAAGACTCAGTACC
        SNP_2  800 ATATCCTACAAAAAGACAGGAAACGAGACCTTGAAAAAAGACTCAGTACC
        SNP_3  800 ATATCCTACAAAAAGACAGGAAACGAGACCTTGAAAAAAGACTCAGTACC
        SNP_4  798 ATATCCTACAAAAAGACAGGAAACGAGACCTTGAAAAAAGACTCAGTACC
        SNP_5  638 ATATCCTACAAAAAGACAGGAAACGAGACCTTGAAAAAAGACTCAGTACC
RTPAP1_mrnaAA  800
      SNP_1AA  800
      SNP_2AA  800
      SNP_3AA  800
      SNP_4AA  798
      SNP_5AA  638
                   |----------|----------|----------|----------|----------
                   801        811        821        831        841

  RTPAP1_mrna  850 AGAAGGCATCCACTTATTGATTGCTTTTATACTTGCAACATGAAGGAAGC
        SNP_1  850 AGAAGGCATCCACTTATTGATTGCTTTTATACTTGCAACATGAAGGAAGC
        SNP_2  850 AGAAGGCATCCACTTATTGATTGCTTTTATACTTGCAACATGAAGGAAGC
        SNP_3  850 AGAAGGCATCCACTTATTGATTGCTTTTATACTTGCAACATGAAGGAAGC
        SNP_4  848 AGAAGGCATCCACTTATTGATTGCTTTTATACTTGCAACATGAAGGAAGC
        SNP_5  688 AGAAGGCATCCACTTATTGATTGCTTTTATACTTGCAACATGAAGGAAGC
RTPAP1_mrnaAA  850
      SNP_1AA  850
      SNP_2AA  850
      SNP_3AA  850
      SNP_4AA  848
      SNP_5AA  688
                   |----------|----------|----------|----------|----------
                   851        861        871        881        891

  RTPAP1_mrna  900 ACGCTTTCTCACCAAAAAAAAAA
        SNP_1  900 ACGCTTTCTCACCAAAAAAAAAA
        SNP_2  900 ACGCTTTCTCACCAAAAAAAAAA
        SNP_3  900 ACGCTTTCTCACCAAAAAAAAAA
        SNP_4  898 ACGCTTTCTCACCAAAAAAAAAA
        SNP_5  738 ACGCTTTCTCACCAAAAAAAAAA
RTPAP1_mrnaAA  900
      SNP_1AA  900
      SNP_2AA  900
      SNP_3AA  900
      SNP_4AA  898
      SNP_5AA  738
                   |----------|----------|----------
                   901        911        921
```

FIG. 11 (cont'd)

a


forward
...GTACCGTTGCAATGGTTATGGTCAGAAGATCAGCAATCATGTGGAAGCCAGCAGCCGCAAGAAAAGTTTGGGA
TACCAGAACTACCGACAATCTCAGAGAACGATGAAGCGTGGCTGAATTGTATAATGAATGGAGATAGAGAGAAC
Ase I
AGTGCAGTGCCAGACGTTGGAAACGGGAGCACAATGAACCTGCAGAATTAATTTGGAATCGGAGGCTTGGAGGA
AAATAGAGATGGGGCAGTGTTTCTGGAAGGAGTTCTAGGATGGGATGACTTGCTTTGGGCCACTATATAGTGCTC
ATATATGGTAGTGCAATAGTTGCCATTATAAGTTGTTTCGAACTTTAATGCTCCTGAAATTCCCATGCAAGTA...
reverse

b

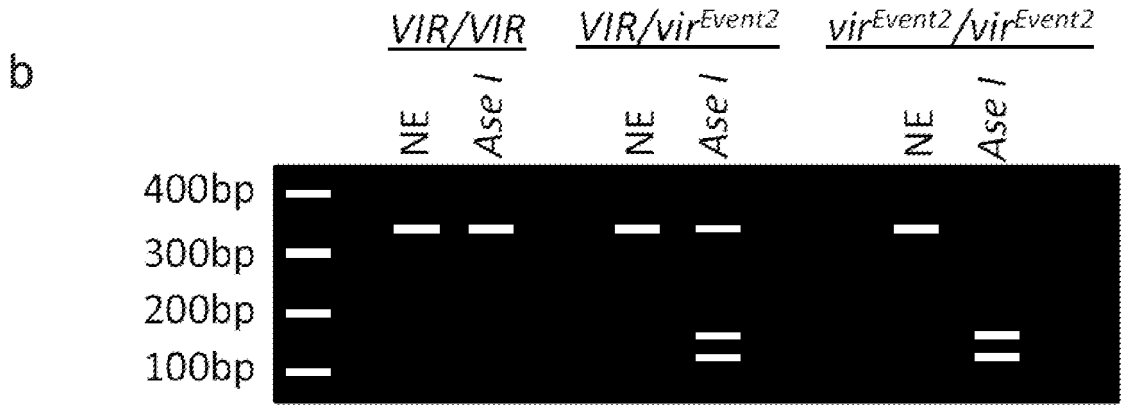

VIR/VIR
VIR/vir^Event2
vir^Event2/vir^Event2
NE
Ase I
NE
Ase I
NE
Ase I
400bp
300bp
200bp
100bp

FIG. 12

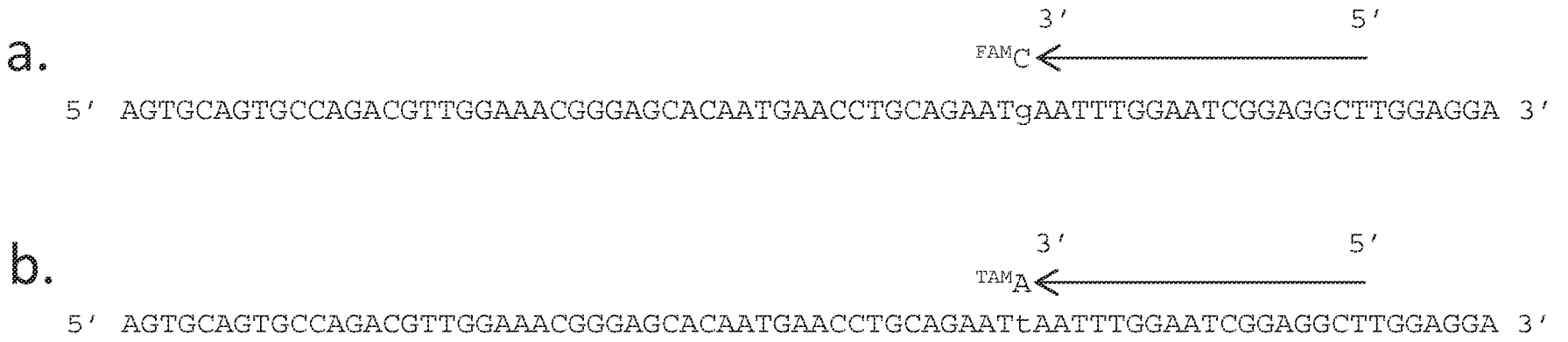
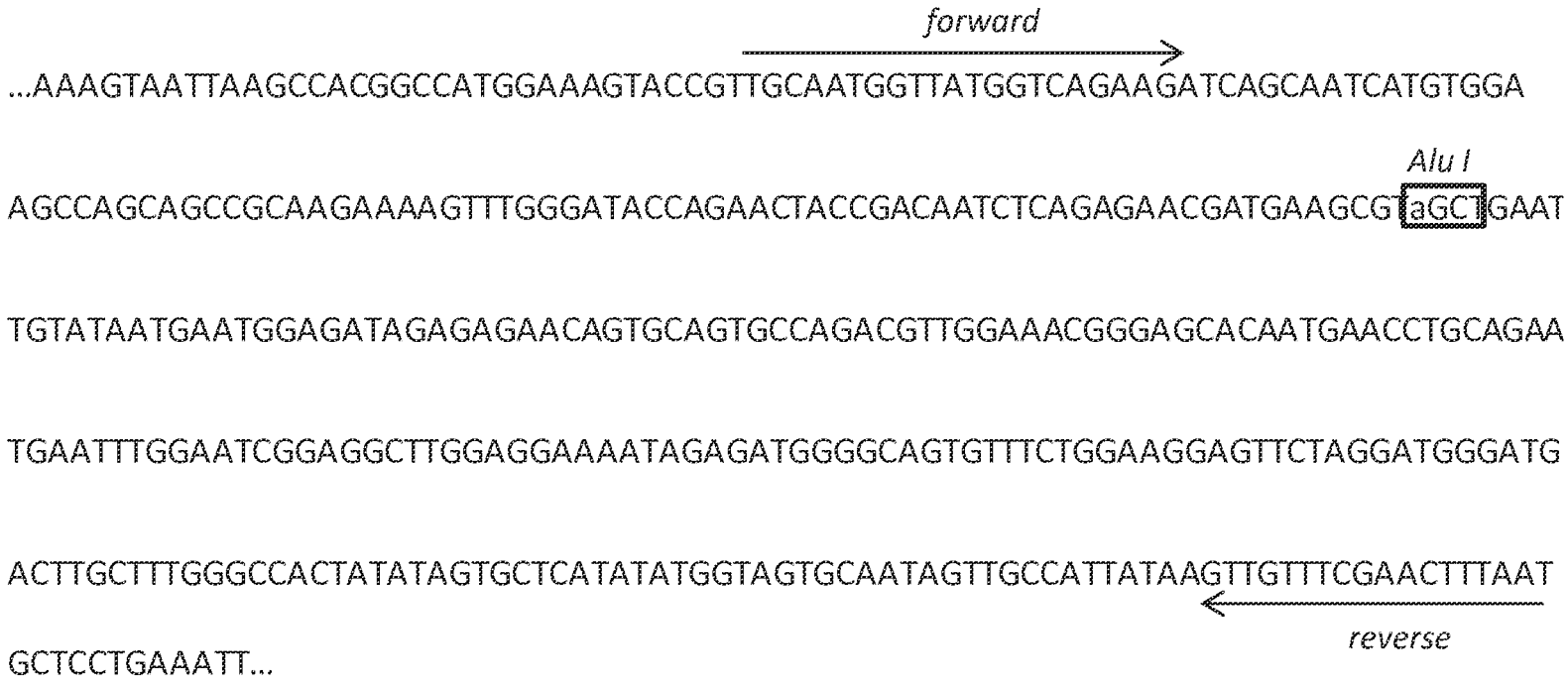

a.
3′
5′
FAMC
5′ AGTGCAGTGCCAGACGTTGGAAACGGGAGCACAATGAACCTGCAGAATgAATTTGGAATCGGAGGCTTGGAGGA 3′
b.
3′
5′
TAMA
5′ AGTGCAGTGCCAGACGTTGGAAACGGGAGCACAATGAACCTGCAGAATtAATTTGGAATCGGAGGCTTGGAGGA 3′

FIG. 13

a.


forward
...AAAGTAATTAAGCCACGGCCATGGAAAGTACCGTTGCAATGGTTATGGTCAGAAGATCAGCAATCATGTGGA
Alu I
AGCCAGCAGCCGCAAGAAAAGTTTGGGATACCAGAACTACCGACAATCTCAGAGAACGATGAAGCGTaGCTGAAT
TGTATAATGAATGGAGATAGAGAGAACAGTGCAGTGCCAGACGTTGGAAACGGGAGCACAATGAACCTGCAGAA
TGAATTTGGAATCGGAGGCTTGGAGGAAAATAGAGATGGGGCAGTGTTTCTGGAAGGAGTTCTAGGATGGGATG
ACTTGCTTTGGGCCACTATATAGTGCTCATATATGGTAGTGCAATAGTTGCCATTATAAGTTGTTTCGAACTTTAAT
reverse
GCTCCTGAAATT...

b.

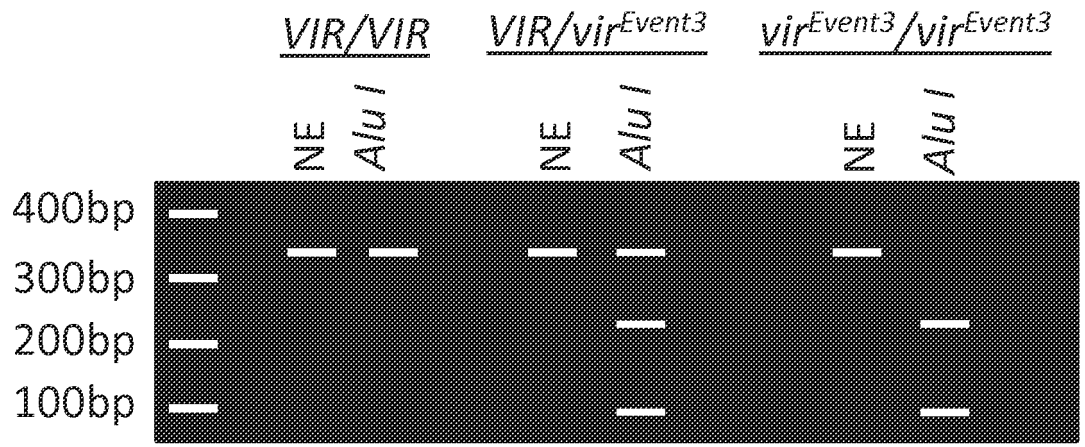

VIR/VIR
VIR/vir^Event3
vir^Event3/vir^Event3
NE
Alu I
NE
Alu I
NE
Alu I
400bp
300bp
200bp
100bp

FIG. 14

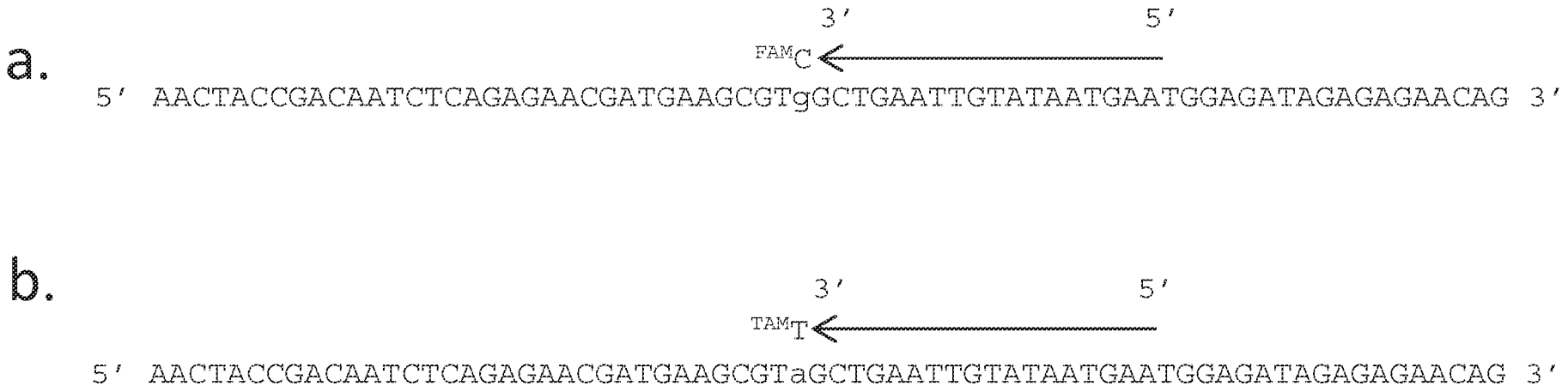

a.
3′
5′
FAMC
5′ AACTACCGACAATCTCAGAGAACGATGAAGCGTgGCTGAATTGTATAATGAATGGAGATAGAGAGAACAG 3′
b.
3′
5′
TAMT
5′ AACTACCGACAATCTCAGAGAACGATGAAGCGTaGCTGAATTGTATAATGAATGGAGATAGAGAGAACAG 3′

FIG. 15

A.

...TGCAGGTAGGCTTCCAGGCAGGACAGCAAATGACATCAAGAACTACTGGAACACTCACCTGGGCAAGAAAGT

AGAAGTTGAAAACAAGAAGGCGGAGCCCAGTGCTGATGCCAAAGTAATTAAGCCACGGCCATGGAAAGTACCGT

forward →

Ase I ↓

TGCAATGGTTTTGGTCAGAAGATCAGCAATCATGTGGAAGCCAGCAGCCGCAAGAAGATTAATGCTTTGGGCCAC

TATATAGTGCTTATATATGGGATGACTTGCTTTGGGCCACTATATAGTGCTTATATATGGTAGTGCAATAG...

← *reverse*

B.

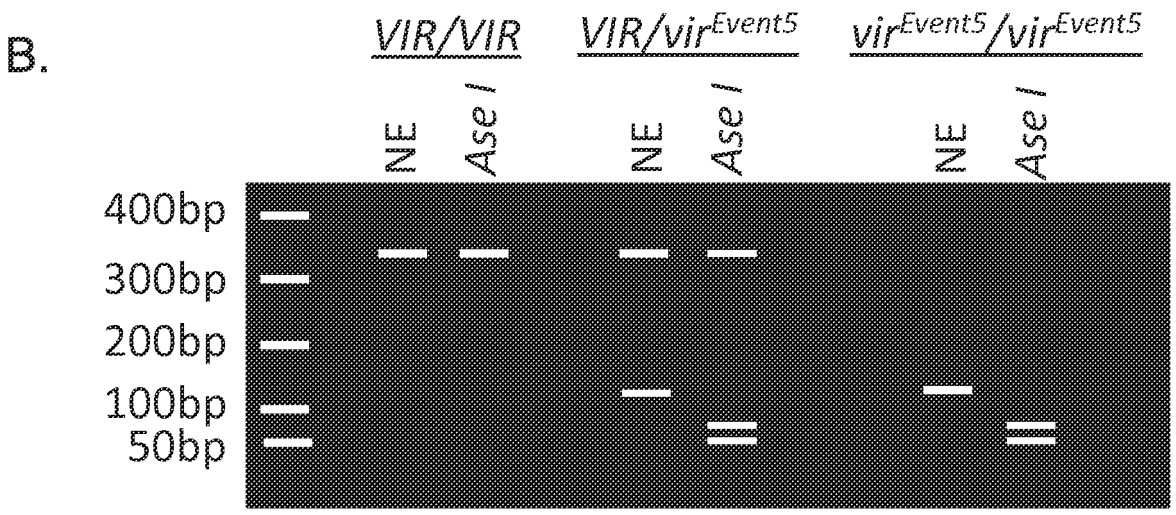


FIG. 16

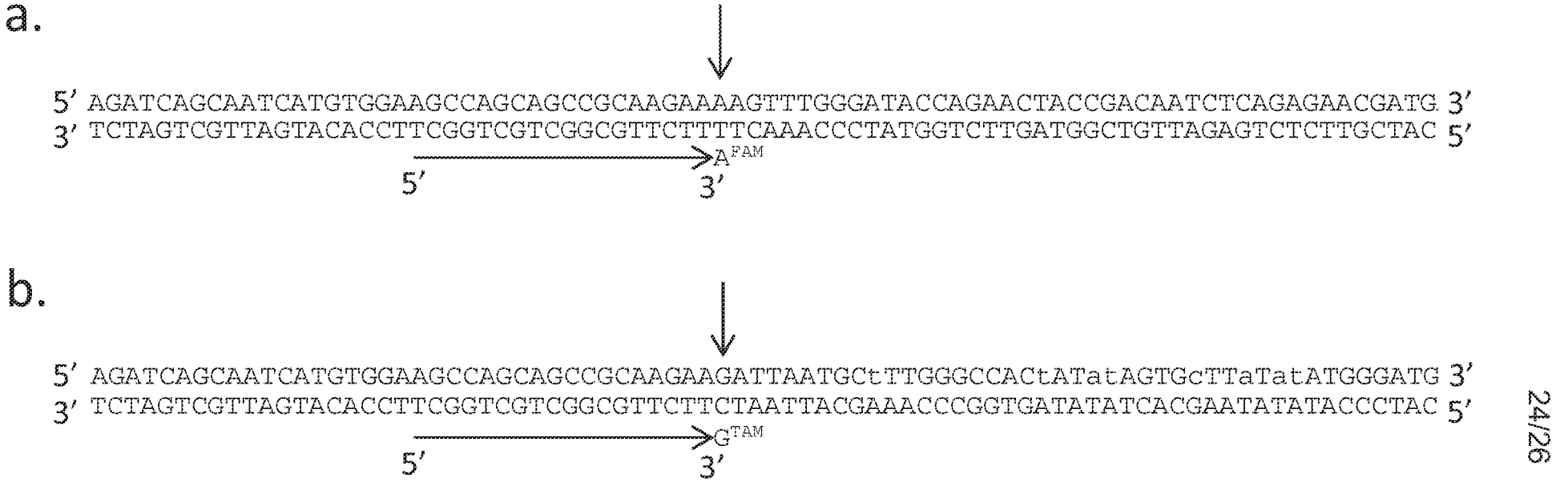

a.
5′ AGATCAGCAATCATGTGGAAGCCAGCAGCCGCAAGAAAAGTTTGGGATACCAGAACTACCGACAATCTCAGAGAACGATG 3′
3′ TCTAGTCGTTAGTACACCTTCGGTCGTCGGCGTTCTTTTCAAACCCTATGGTCTTGATGGCTGTTAGAGTCTCTTGCTAC 5′
A^FAM
5′
3′
b.
5′ AGATCAGCAATCATGTGGAAGCCAGCAGCCGCAAGAAGATTAATGCtTTGGGCCACtATatAGTGcTTaTatATGGGATG 3′
3′ TCTAGTCGTTAGTACACCTTCGGTCGTCGGCGTTCTTCTAATTACGAAACCCGGTGATATATCACGAATATATACCCTAC 5′
G^TAM
5′
3′

FIG. 17

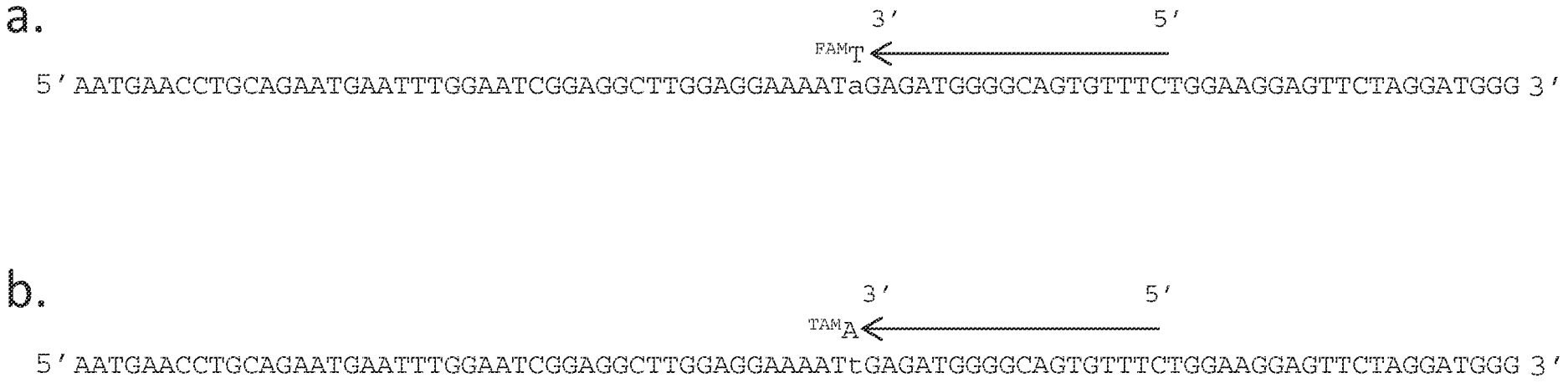
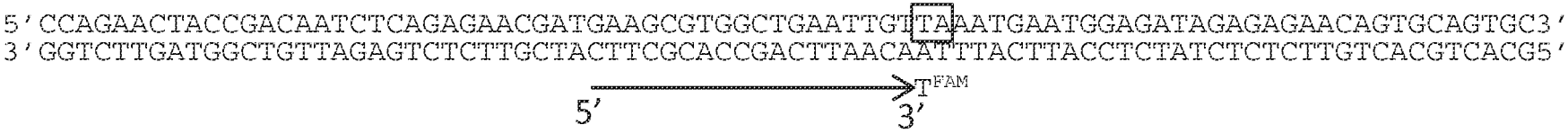

a.
3′
5′
FAMrT
5′ AATGAACCTGCAGAATGAATTTGGAATCGGAGGCTTGGAGGAAAATaGAGATGGGGCAGTGTTTCTGGAAGGAGTTCTAGGATGGG 3′
b.
3′
5′
TAMrA
5′ AATGAACCTGCAGAATGAATTTGGAATCGGAGGCTTGGAGGAAAATtGAGATGGGGCAGTGTTTCTGGAAGGAGTTCTAGGATGGG 3′

FIG. 18

a.


5′ CCAGAACTACCGACAATCTCAGAGAACGATGAAGCGTGGCTGAATTGTTAAATGAATGGAGATAGAGAGAACAGTGCAGTGC3′
3′ GGTCTTGATGGCTGTTAGAGTCTCTTGCTACTTCGCACCGACTTAACAATTTACTTACCTCTATCTCTCTTGTCACGTCACG5′
T^FAM
5′
3′

b.

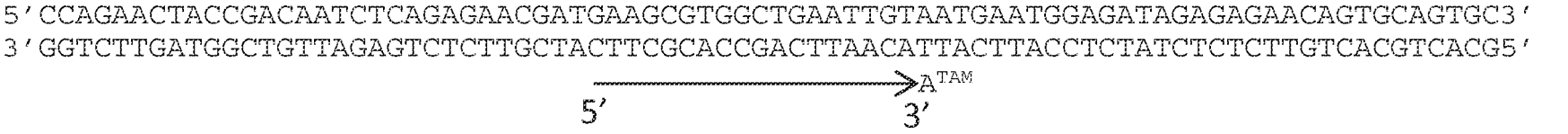

5′ CCAGAACTACCGACAATCTCAGAGAACGATGAAGCGTGGCTGAATTGTAATGAATGGAGATAGAGAGAACAGTGCAGTGC3′
3′ GGTCTTGATGGCTGTTAGAGTCTCTTGCTACTTCGCACCGACTTAACATTACTTACCTCTATCTCTCTTGTCACGTCACG5′
A^TAM
5′
3′

FIG. 19