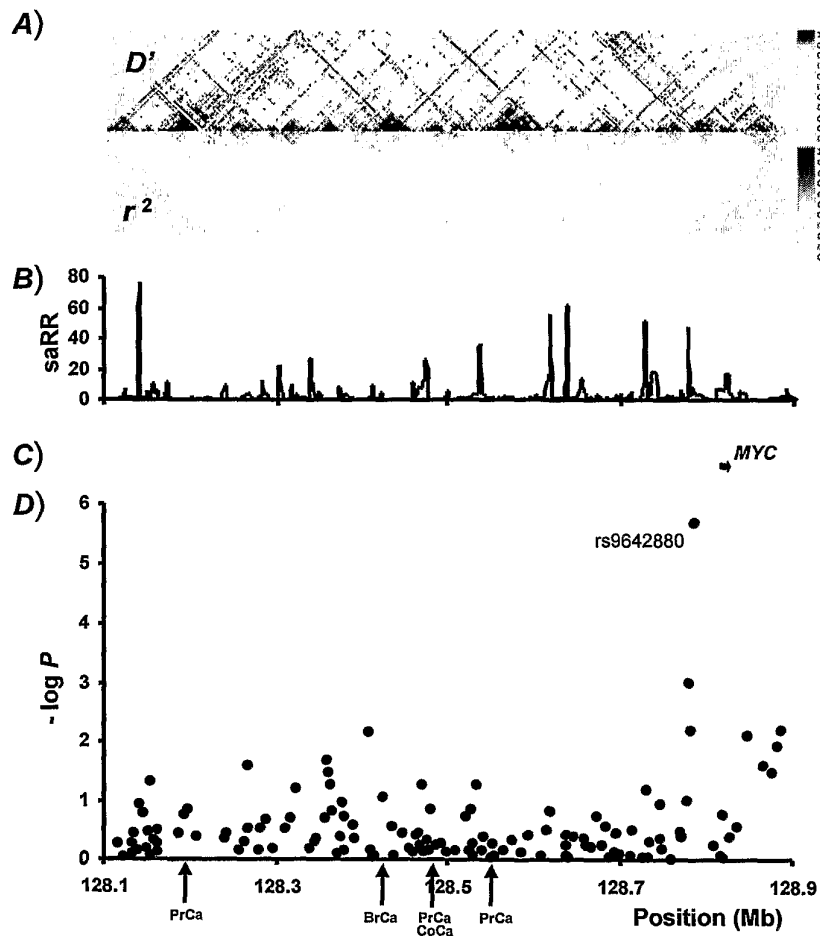


Figure 1



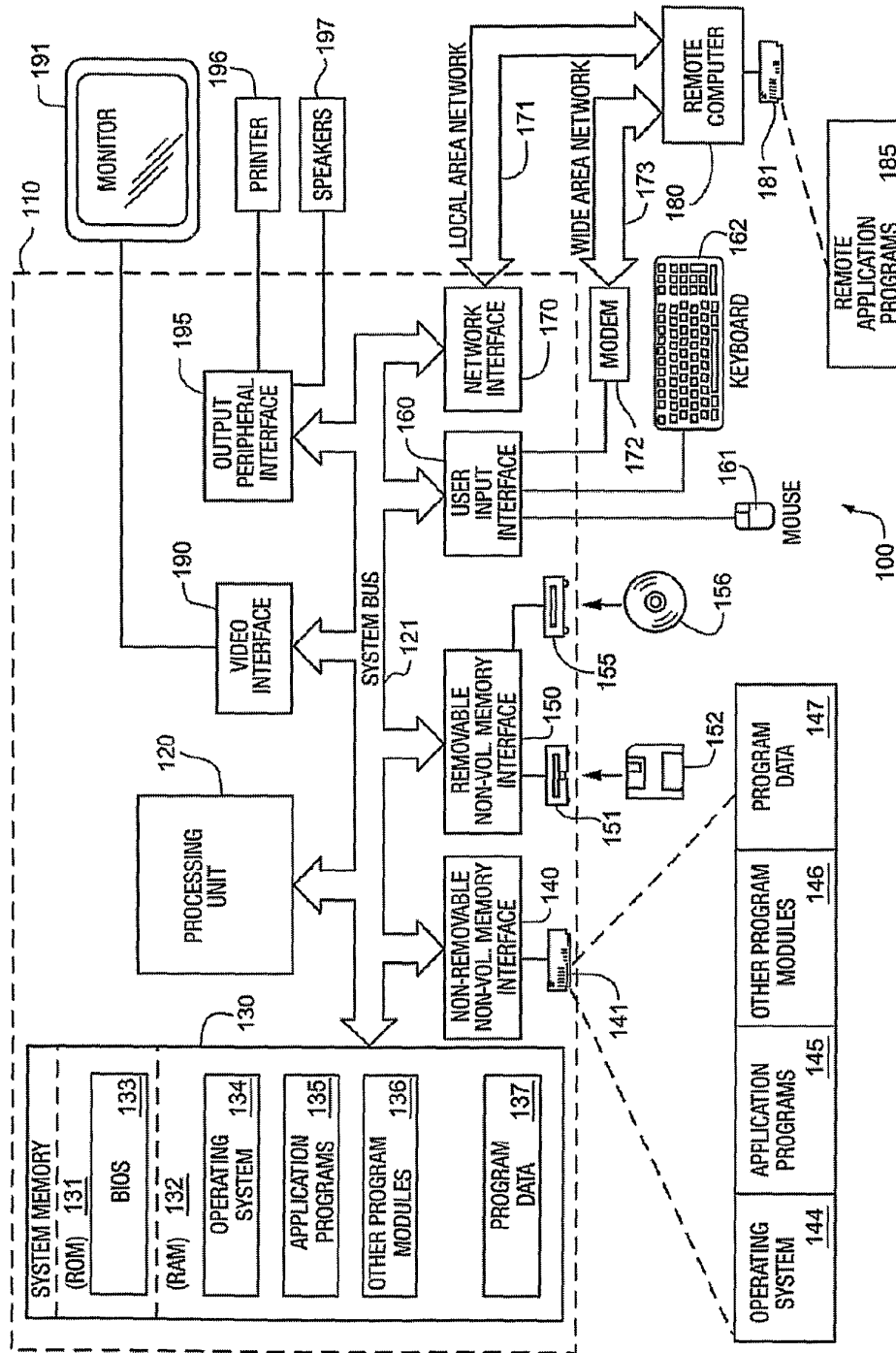


FIG. 2

SEQUENCE LISTING

<110> deCODE Genetics ehf

<120> Genetic variants as markers for use in Urinary Bladder Cancer Risk Assessment, Diagnosis, Prognosis and Treatment

<130> 2557-PC00

<160> 54

<210> 1

<211> 599

<212> DNA

<213> Homo sapiens

<400> 1

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tgggttgatgg	ctttgttaat	tattattatt	atTTTTTTTta	agattcaggt	tcacacttgt	360
aatcccagca	cattggggagg	ccaagggtgga	cagatcacct	gagttcagga	attcgagacc	420
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gtggcgcatg	cctgtagtcc	cagctactca	ggaggctgag	gcaggagaat	cacttaaacc	540
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<211> 599

<212> DNA

<213> Homo sapiens

<400> 2

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gctctgctca	tgcccaacat	aaaacactgc	tgatttatgg	tgagagtggg	gctgattcta	240
aagaatccaa	tgaatcaatt	ctacagcaag	agtttatcag	tgcttattca	ttttttaagr	300
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tgagaacaat	taatctgaga	aatactcttt	tattttgaaa	tttggttttt	gaagctttct	540
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<211> 599

<212> DNA

<213> Homo sapiens

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gaccagcatg	ctctccatcc	tgttgccccg	cctcacgtct	ggccctgct	tctccagtc	180
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tgagggagga	aagggtcag	ctaggagctg	gggagactca	aggagctgct	ggtgacgcat	540
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 <212> DNA
 <213> Homo sapiens

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attatttcat	taagggccca	tattaccaca	g	tttaaa	agca	tactctatgt
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agagggggct	ttgttagaaa	ggcagagggc	tttgttagaa	aggcaccatg	aaggagtggga	240
aggaatgggg	attaaaagaag	gttaaaggac	ttggttaaag	aggccaacaa	aaccctccca	300
atggctgagt	tgcaagt	ttt	taaat	tacta	ttac	ctactt
tgaagaagaa	taaatggccc	caggagcaga	ttaagaagta	aacatcccca	gtctatctga	360
aggctcttgt	gtgccccgcc	tcagcaatac	ccacctctgc	ctctgcagag	ggagcctcta	420
ttctgaagta	ggtgttactc	cagcctcatg	ctgtttttat	acttttatta	cctatttggc	480
tggtttgttt	at	ttttt	tgga	gacaaa	agtct	cgctctgtca
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 <212> DNA
 <213> Homo sapiens

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gcattaaagt	caagacctat	agacaactga	aaagatgggt	aggagtcatt	ctagcagaac	180
cactcttaga	tagctctata	accccaggat	aactgcctaa	tctccctgga	actcatttta	240
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taatagagaa	tgtatcggtc	aggatggact	aggttctgct	gtgtaacaaa	cacaccaaaa	540
tcccaccagc	ttaacacaa	aaaagtttac	tcctccctca	tagagtctgc	tgacaggtct	599

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<213> Homo sapiens

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 gaaccgccc agacagaagg accaaggcac cgaggagaa gataatataa tgtggccctt 180
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 ccctatcacc caaagaactt gctaaagcac cgattgctgg tccccaaac agagcacctg 480
 cctcagtaac tctgggtcta tgtctatcaa attctcagg gatactggtc caagagccac 540
 gccttagggg gaaatggcat taatgccaac tccagtaaat taggcaggat accaggaag 599

<210> 8

<211> 599

<212> DNA

<213> Homo sapiens

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 ggccactggc tgtgaggagc tactttttta gtaagtttct gttctttgat cctgcgaaat 180
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 acaataatga aattggattg tctgactcat ccaagagtct atggatgcat atatgtctgg 480
 tcttcctgcc aggggatagc acattgtcag gtattatttc agagttaag gaggggtttt 540
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<210> 9

<211> 599

<212> DNA

<213> Homo sapiens

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 aagttcttat aggagcttct gggctcaatc accactgat cgccaagctg ggtgctggcg 180
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<213> Homo sapiens

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 ctttttgcca cttcaagcat gctgataaac cattagtctc ctctgtggga ggagaggaat 180
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gcaggaggat	tgcttgagtc	cgggagatcg	aggggtgcagt	gagccatgat	tgtgccactg	480
cactccagct	tgggtgacag	agtgagactt	tgtgtttaaa	agaaaaaaa	aaggccaggc	540
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<210> 11
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<210> 13
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aagaaaaaaa	attaagtcac	tgaatgtttt	aggagagcac	taagttaaga	cagactttgt	599
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<212> DNA
<213> Homo sapiens

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<210> 16
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<213> Homo sapiens

<400> 16
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 ggacaagagg tgctataatg ttccctctga gttctaacat cttctgtatt ctctgtcttc 180
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 aggtgggtgt tgcagggagc caagatcata ccacttccct ccagcctggg caacagagtg 540
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<211> 599
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<213> Homo sapiens

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 ttcaaaaaaa tagcaaacct aaccctggtt tgattattgc agtcacataa aaataaaaaat 180
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tgaaaactat	aaaacatttc	tgagtaaaat	taaagatact	ctgtttaaat	ggagagatat	540
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	tgagtaaaat	taaagatact	ctgtttaaat	ggagagatat	catatgctca	tggttttaaa	180
	gacaccacat	tgctaaggta	tcagttctcc	cctaaaagac	cttacatatt	taacacaatc	240
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	tggaaaaaatc	aaaggatata	aaatagccag	aacaattttt	aaaaagaaca	aaattgcaag	360
	aatcagacta	cctgatttca	agacttacta	taaaagtagat	taacccaaac	aatttgaaat	420
	tgatatatgg	atagacaaat	agatcaatag	gaaagaggga	agtattcaga	tacagacatg	480
	aacacatatg	accaattgat	tttcaataaa	gagccaag	cagctcaaca	agggaaaata	540
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<210> 19
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	agaagcagct	ggtgtaatcg	tccaggctgt	cttccaccta	gccccaaagt	ttttcaactc	180
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	cattgttaatt	gattcagaaa	agaaccacaa	tggttgaaaac	tagaaaaagg	taaacatttg	360
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	ttataaaata	gggatgataa	ttcaagtcaa	ttatctgtta	tctacaattc	tgaagttcca	540
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<210> 20
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 <213> Homo sapiens

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	atttttaaatg	tgtgattttt	gttaagatac	ttgccattag	tgagagttag	ggtgggacat	180
	atcagtaacg	aatccgattg	ccactatggc	tctgcccccc	caccatcttt	cctctgggag	240
	gatgttgggg	ccaacttacg	attgcaacct	gtgtgtgtgt	ttatcctttg	tttgatacr	300
	tggttactagg	tgccccactc	ttggccagca	attccagtgc	ctgggtgggt	tgccctgagca	360
	aagtgcctga	gtggctagga	atgtagagat	agggctttga	cccagagcac	agggatgata	420
	agggtttacta	tagtgtaagg	attagaatga	aggttctctt	ctgcttcaga	agtgggaaga	480
	ggaagcaaca	caggatggga	tctctatctg	gttctaggtc	tcaggctttc	tccagcccgt	540
	tttgccaact	tacaagcaac	taaccaccac	taaacttcct	ctccctggag	aaggaaaaa	599

<210> 21

<211> 599
<212> DNA
<213> Homo sapiens

<400> 21
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tacttgccat tagtgagagt taggggtgga catatcagta acgaatccga ttgccactat 180
ggctctgccc cccaccatc tttcctctgg gaggatgttg gggccaactt acgattgcaa 240
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gcaattccag tgccctgggtg gtttgccctga gcaaagtgcc tgagtggcta ggaatgtaga 360
gataggcctt tgacccagag cacagggatg ataagggtta ctatagtga aggattagaa 420
tgaaggttct cttctgcttc agaagtggga agaggaagca acacaggatg ggatctctat 480
ctggttctag gtctcaggct ttctccagcc cgthtttgcca acttacaagc aactaaccac 540
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<210> 22
<211> 599
<212> DNA
<213> Homo sapiens

<400> 22
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ttatccgtac atttatctct tgcttttcac ttaacaatct gccataaaga atattgcaat 180
atagatagac ttcattatca gcctccctaa cttggatatt caccaagata acatactatt 240
tgtaagcgtt tccccatttt ttaaacataa aaattgtttt tagttttaac cataatagay 300
gatgcagcag agaacatttt gatatgcttc actttttact tttattgaat ggtttttgta 360
gactgggact ataggaccta agagctgtta aaaacagctt tacgggtccc agttcttgga 420
gcatcttctt ttttttgag ctctgctaaa taccacaatt ttatgaaact ttactcagtc 480
tcttttttaa aattgcatcc cttttcttac acccaacttg ggactccttc aacacacaaa 540
caccagaacg tttcttatct ttataatcaa cacaatgttt aaaagttgag gaggaggaa 599

<210> 23
<211> 599
<212> DNA
<213> Homo sapiens

<400> 23
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ctgaagtttg aatgaacaga tgatagattt gtaaatctgt tgcatgaagc agagttagtg 120
ggttgaaagt acactgggtg aacaggacct aagttctttg gtttgctggc ttgctgtgtg 180
gaccttcggc aactctctct ctctaggctt cagttgcctt acccgtagt atgtactttg 240
gactagatta tgtttaattc tgagaacatt ttgagctcta agatgttatt aatggaagtr 300
tatattcaaa tctatattgt actgttttat ccacacaggg aaaatattct tggagcattg 360
ctactgtttt tggcaattat cccagttttt cccttttcag tgatattcat gaaggtggta 420
tagcctattt gaattacatg atgtggatca gcttacaac gaacaggatc aaagatcaca 480
aatgtttaa gcctgtctca cctaaggtag tgttcagtg tgcaaacatt agctttaagc 540
ttccccgcag gcaagatgaa gaaaaatcta caacagggtt cagagtttgc ctttttagg 599

<210> 24
<211> 599
<212> DNA
<213> Homo sapiens

<400> 24
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gaaatcgtgg ctgctttatc attaattht catgtgcagc ggagagcttg tcctttgtgc 120
tctaaatcct tgctacaaac ggttacataa aagatctaag aaagtggaga caaaggaagg 180

tggtgtaaagt	tagaaggaaa	aaaagagcta	gaaaagtgtg	caagtcactt	catacctgaa	240
ttcttgacat	ttgactggaa	ttgttctgat	tagaccatgg	tcctcaaggc	atttcacagk	300
tttttttaag	tctgcgctgc	cttaggggat	tttatccttg	agacatccac	tggcttaact	360
caagtttcct	tcaaaatatg	tagctaaata	cagctgttca	gctaatagct	cagaggttct	420
ttggagaaca	aatggaatgt	tatttactaa	tattacttgt	ggcatgttag	cacttttgtg	480
ttctgccaag	tgtttttggg	tccattctca	aagccgcat	ggctaagctg	gtagtacgtt	540
ggcgatggcc	catatgggaa	gtggaagtgg	tagatcttca	ggggactttc	aaaatgctt	599

<210> 25
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 25						60
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aaagtgtgca	agtcacttca	tacctgaatt	cttgacattt	gactggaatt	gttctgatta	180
gaccatggtc	ctcaaggcat	ttcacagttt	tttttaagtc	tgcgctgcct	taggggattt	240
tatccttgag	acatccactg	gcttaactca	agtttccttc	aaaatatgta	gctaaataca	300
gctgttcagc	taatagctca	gaggttcttt	ggagaacaaa	tggaatgtta	tttactaatr	360
ttacttgtgg	catgttagca	cttttgtgtt	ctgccaaagt	cttttgggtc	cattctcaaa	420
gccgccatgg	ctaagctggg	agtacgttgg	cgatggccca	tatgggaagt	ggaagtggta	480
gatcttcagg	ggactttcaa	aatgctttga	atttaactct	ttcttcccct	ttattctaata	540
tcctagtggg	caagtcctgg	gccgacgctg	ctttgaggcc	cggatctgtg	cttgcccagg	599
aagagacagg	aaggcggatg	aagatagcat	cagaaagcag	caagtttcgg	acagtacaa	

<210> 26
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 26						60
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gcatttttcc	tccaccagcg	tttcgtcaga	acacacatgg	tatccagatg	acatccatca	240
agaaacgaag	atcccagat	gatgaactgt	tatacttacc	agtaggtctt	ccttgggtgt	300
tcatggttgc	ttcattttaa	ccttctttga	atgggctttt	acagtatgat	catcatctcr	360
ttatctgtga	caatgggaaa	ggaggtgtct	tagtcagttg	aagctgctac	aacaaactac	420
cgtagactag	atggcttata	aacaacagaa	gtttattttc	tagagtctgg	aagtctgaga	480
tcaaggtgcc	cctatggtcg	ggttctgggt	agagttctct	tctgagttgc	aaactgccat	540
tttctccttg	tattctcata	tagtggagag	ggctagagag	ctctctaggg	tgtttttttt	599
ttttttataa	gggcaaaatc	ccatttatga	aggctccact	ctcattacct	aaattactt	

<210> 27
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 27						60
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taaactccta	acagaatttt	tcttacccta	atatttaaaa	ttaatgtgtc	cttcattatt	180
tgagaatgat	aagattatcc	taggcagcat	ggccatagaa	atttaggccg	aaaatgttgt	240
cagaaaaagt	tcacaaaatt	gataatgcag	caatgatagc	cttgactttg	atgtctttta	300
ggcagcacta	taaagaaaagc	caagcaaggc	agaagcctga	attacagtca	gccctccctm	360
tctgcctgtt	ccatatctgc	agattcaacc	aatcacagat	caaaaatagt	tggaaaaaaa	420
caataaaaaa	atacaccaat	caaaaataata	caaataatac	aacaatatag	tataacaact	480
aattgcattg	catttacatt	atattagata	ttataagtaa	tctagaggta	attttaaaact	540
atacagagga	tatgcatagg	ttacgtgcaa	atactacacc	attttatata	agggacttga	599
gcaacctagg	attttagtat	ccatgggggc	cagatggggg	tgggtagtcc	tggaaatcaa	

<210> 28
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 28						60
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tatttgaaaa	catgaaatct	tttctcatcc	caatggattg	tcttataaat	ctcctgggat	180
gcacactatc	cacttttggt	aataacactg	tagaccagg	atagcaaata	ggctttacta	240
taatataaag	tgacttggtt	gaatgctgta	atgagaagaa	ttctgagacc	tagtgcatga	300
taattgggga	aatatctggg	tgacagaagga	taaggtagca	tcattgttgc	gtatttttagm	360
atctctgctc	tagattgtct	tccagcagta	catttttggt	ataaatcaag	ccagattttt	420
caagtatat	accatataca	tataacctat	ttatatgtta	agctttgcct	tgaatcttgg	480
atctttccta	aagtgatttt	atgactgact	agaatagaat	agctcttatg	aaaggatgag	540
agggttgacca	atcaggacct	tgtttatatt	tacctttctg	tggttaaaaa	taatcacttg	599
ttagtttaat	taaaatatga	tatgtgtcct	ggaagtattg	tcagagactc	tgtagataa	

<210> 29
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 29						60
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agattttttg	tatttttttag	tagagatggg	gtttcaccat	gtagccagg	ctggctcgca	240
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gggccaccgt	gccggccttg	ttattatgtt	ttaatcaata	tgaatgtatc	tctgatagtr	360
aagaaacact	ttctgagcac	ctgttatcta	cagagtggag	tagacggcag	ggagaaaaga	420
ggcacattct	ctgttcaaag	gactctaagc	tatttgagca	tccaagatcc	tttttggtcc	480
gaagggatct	cactatttac	ttttagcata	aaagttttgc	aaattttaat	ggtatgggtt	540
tatttgtaag	cctgagcaga	aagtttaatc	acacagtgtg	ttctgaagga	gaattagaac	599
tcagagttgc	agacacaatt	tccattgcta	atcatatgga	tgttttggga	tatcagatg	

<210> 30
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 30						60
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acagtgtatt	ctgaaggaga	attagaactc	agagttgcag	acacaatttc	cattgctaatt	180
catatggatg	ttttgggata	tcagatggaa	atatatacta	acatatatta	gtggaaaatg	240
atttagttct	tataaaaacca	tacaaccagg	atcaaagaaa	cagagacctg	taacatcatt	300
tatagaccga	ggagggatat	ctacctttcc	taagatatgt	gtgtcatggt	attaagaaay	360
accttcaa	ttcctcctgt	tcactctgaa	agtttgacta	taccaaattg	acctccaaaa	420
catpactaag	taatatatca	tgctgaacta	gttgctcttc	agtactcttt	cctgtctttt	480
tttttttttt	tttttcagtt	aataagaaaa	gggtctcatat	gtagtacagg	aattggcaag	540
ctgctttttg	taaagtcctg	gtagtaaaata	tttagatttt	ctgggtctat	attgtctttt	599
gcaactactc	agctctgtgg	ttgtagcaca	gaaacagccg	aagataatgc	ataaaggaa	

<210> 31
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 31						60
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ggcaatctca	tgaactgttt	ggaaattgtt	tcccagattg	gcttcttgaa	tcacatttgg	

ctatgccttt	caaaggaaca	aagtcatttt	tatttgctta	atgctaggat	tcagtaaacc	180
atgtcaccgg	caagaattga	tatcatctta	acagaataaa	ccggaataaa	aatggatggg	240
gaagcaatgt	acagctaact	aaagacctct	aagacctagg	actgagcctg	attctgcaay	300
gaggtgagag	aagttacaaa	agtaatttaa	tctatctgag	tttaattaat	cattgagttt	360
tttcttcatt	accaattcag	agataataaa	tctctgccct	gaaaacttca	taactatgaa	420
attcaaaagt	aaactgttag	ctgggcgcgg	tggctcacac	ctgtaatccc	agcactgtgg	480
gaggccaagg	tcagggggat	cacaagggtca	ggggtttgag	accagcctgg	ccaacatggg	540
gaacccccgt	ctctatgggt	tttcttcatt	accaattcag	agataataaa	tctctgccc	599

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<210> 32
<211> 599
<212> DNA
<213> Homo sapiens
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[illegible]

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<210> 33
<211> 599
<212> DNA
<213> Homo sapiens
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[illegible]

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<210> 34
<211> 599
<212> DNA
<213> Homo sapiens
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[illegible]

<210> 35
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 35
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 cccttctcct cttttccctt caactcaa atgagttgaaa agcagttagg gaaaagaatt 180
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 catttctaca caggagaacg ctgaagccca aataactatt ctattgactt tccaaaagtc 480
 toctgggaga aatgaaaaaa acaaagcaac agaaaaacc aatagttttc cattcagcat 540
 gatcttcaat ttggaaagtt accagaactc atttgtcata ttatatctaa cagataata 599

<210> 36
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 36
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 ttggagttca gtcactatta tctctgatct gtggagtggt caacaatgtt ttatcaagga 120
 aaactactat aaccagcatg gaaacaaggg aaagtgtctg ttgataggca tattgttttc 180
 atgtctgttt ccctcgccct cacttactcc cttcctcctc tctcacattt ttacattgtc 240
 aattgcggcc ctcaagttgg tgctcagggc tgggtttcca aaagggaat aaacttgctr 300
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 gagataagca gaagaaagaa atgcatgaag cctgaaagat ttgcttcca cagaggcaag 540
 agtaggttcc cagattttctt gcctagtgtg tatctttctc ttctgcttca tgtgcagaa 599

<210> 37
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 37
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 cgtattttcta gaaagagaca cccttttctc agcttttatc ttagagccag tctaagttat 120
 tgggcatcat cacttctctg aaaaggaatg tgacctaat ttggggaact tcattagtat 180
 ccccataaca tgcaaaaatg aggttaacaat acaacataat aataatacaa atggttaata 240
 tttatagagt gtgttgtaat ttataaaata ctttcatagc tgtatttacc tatgagtctr 300
 tagcatcttt tgccctataa agcaattgta tctcatttta ccaaagaaga aactgaggct 360
 ggtagagaat aagtgacttg ctgaagttct atagccagtc agtgaccatc aaaacctctg 420
 ccacagtttt ctactccaa gcacaatgtg ctgtttacct accattctgc cctgtgaaaa 480
 tatgagctat cactgaaaca atctaaagaa gagctaacgc agataaatgt aagtgatatc 540
 accacagtca gtttaaggttg accctatttg caatgccttc tgcaccatt cacagaaca 599

<210> 38
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 38
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aaatggttaa	tatttataga	gtgtgttgta	atttataaaa	tactttcata	gctgtattta	120
cctatgagtc	tatagcatct	tttgccctat	aaagcaattg	tatctcattt	taccaaagaa	180
gaaactgagg	ctggtagaga	ataagtgact	tgctgaagtt	ctatagccag	tcagtgacca	240
tcaaaacctc	tgccacagtt	ttctcactcc	aagcacaatg	tgctgtttac	ctaccattcy	300
gccctgtgaa	aatatgagct	atcactgaaa	caatctaaag	aagagctaac	gcagataaat	360
gtaagtgata	tcaccacagt	cagttaaggt	tgacctatt	tgcaatgcct	tctgcaccca	420
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gagacctttt	agataaaaag	gccgtttcag	gttctgagga	tgccctaagt	ccctaatttt	540
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<210> 39
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 39						60
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tttaaaattag	atgttgaaaa	taaatatttt	gggttaaata	tactggaatt	aattttaccc	240
gttccttttat	atgcttacta	caaaatttaa	aattatgtaa	atggatttca	ttgtagtctt	300
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ttgttacatc	agaatatgaa	tacaaaacac	aatggcactc	tagactctgg	tgatggtgaa	599
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<210> 40
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 40						60
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aattgcattc	agaaggattt	ttctatttca	tgtacatgtg	ccactgaaat	cattaacaaa	240
atttttagatt	tactatgttt	atattaaaa	ttcttataaa	attattcttc	accatatatt	300
ctgttattta	taaaattact	aaaataaaaa	tataaagcat	taattagacc	cagaagatay	360
ggataatgac	tactgcaactg	agaattatta	gaataattta	tctaattattg	ttatagaatg	420
ccaaaaacct	aatgttcatt	aaagactcct	gaattatcta	aaatctgcat	agaatctctg	480
agattccaag	aacatatttg	tgcttttggg	tgagtttct	gaattatcta	agaaggtaac	540
ccaaggactt	tccttagtat	actgatttat	tttgtattcc	tagtagcaaa	ataaaagtat	599
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<210> 41
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 41						60
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atatagaaat	ggggtttagc	ttttcagaaa	aaattcagca	gtctcaaagc	tctaactctc	240
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cctgactctg	tctatgtgcc	aggtgggttg	caagtactgg	caggtgaact	tcccttttgt	480
gattctgatt	agaattctag	gcctagcaca	ctggaggacc	aacgttttgc	aattcaagta	540
aaagtctgac	acaggacgag	gaacaaaaat	tttttgcaga	gagagtttga	catcagaaac	

accaggcaga aaataacgaa tcctgtgagc gctttaactc atctgacatt tgctctgta

599

<210> 42
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 42
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 gcacacaaat aagtatttta tgcaatgtca gttactgatt agcacaataa aaaaaactga 180
 agcaaggcaa aaaacaaaac acagaatgag tggtagagtg aaagatggag gctatgatta 240
 gagatgaaat tcaggatatt aatgattaga tatgaagtcc aggaattcct ctctgggtar 300
 aacagcagac acctgaataa gtggaaagga taagatatct taggagtaga gttccaggaa 360
 aagataacaa tgaaagcaaa gaccctggga gggaatatat ttgtaatgtt aaagaaatag 420
 gaagaagccc tgtatgactg cagttttgtg aggcaggcca agagtattag gagacaaaat 480
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 <213> Homo sapiens

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<210> 44
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 <213> Homo sapiens

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 <213> Homo sapiens

<400> 45

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<210> 47
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<213> Homo sapiens

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<212> DNA
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<210> 51
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<212> DNA
<213> Homo sapiens

<400> 51
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<212> DNA

<213> Homo sapiens

<400> 53

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