

2577230PCTSequenceListing.txt
SEQUENCE LISTING

<110> Temasek Life Sciences Laboratory Limited

<120> Polynucleotide Sequences from Rhodosporidium and Rhodotorula and Use Thereof

<130> 2577-230

<150> US 61/782,832

<151> 2013-03-14

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<170> PatentIn version 3.5

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2577230PCTSequenceListing.txt

tcgatctgta gctgatcagg gaagctgtgc cgggtgcgag agaggtcaat gtcgaagctt	540
ggcagctcgt cgaggaagaa gaggacggcg agggacgcac gccatgaact tgatgtgacg	600
ctcgaagacg accgagtagc cgagccacat cattgtgagg acgccggcgc agacgtagtg	660
gaagatgaac ctgagagggc aagaggtcag tctcgaaacg agggaggaag ccggctcgag	720
caggacgagg cgggcgcaac ggacgcacca tttctcggcg gcgacgatat tgcgagccca	780
cacggccccc agcactagac aggtgatgtt ggcgaccgcg ccgccgacgg cgagagcgag	840
aacgctgtag acgaagtgct tgatgcgtcg gtggattggc gctcgtcgga tcctcgcgat	900
ctgggccttg gtgagcggtg gtggcgggccc aagcggtggtg ccagcagctg tgctcatcgc	960
agcagcgggtg cggcgcaaga gcgactgtgg agctcagagg agaggagcgc ggcaggggaa	1020
agcgagaccg aggaggagcg agcgcggaaca ggcgagggcg accggacgtt ccggtgcggc	1080
tcgactggcg tgcgagacga gcaggccgtc gccggaagca gccgtgtccg gcggaagag	1140
ccaggcgcgc gagcggggcg gagcagacag cggcgggtccg agcgcgcggg gcaggttcga	1200
cgaaagtcgg gctcgggtca ggctcgcgcg agcgcatgag atgccgtcga gcgagcccat	1260
gtacagagtc gagcgagaga gcgaagtgcg tgggaaggaga gtggtccaag agtggagcgc	1320
cgtggagatg agacagatga tggcgaacct cggccacagc ctctcgggtc tgccacagca	1380
gctctgtgag tctccctgac ccgccagccc gcgcttcaga actcacagac cacctacaca	1440
gactcgcgca ccagctcgaa ccgcgccaga ccaccgcctc gccgcctccc cacctcgact	1500
gcttccgaac ctcacaagct cgaccacat gg	1532

<210> 10
 <211> 1222
 <212> DNA
 <213> Rhodotorula graminis strain WP1

<220>
 <221> misc_feature
 <222> (1)..(6)
 <223> KpnI cloning site

<220>
 <221> misc_feature
 <222> (1217)..(1222)
 <223> NcoI cloning site

<400> 10	
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tgaccgaaga gcgaggagga ggaaaagcga gcgcggcggg cgtgggaagg agggcaagga	180
gggcggcggc gacgcaaaa aaggccagat tcgcggggca gtgatcgagt gccgtccgcg	240
agctcaacca gcgagcgctc tctcgcgcgc agcgggtgcgc ttctttcggc agccgatgcg	300
caccgttcag aagcacgtcg cccgcaccga gagcgcctcc tcgcgagcct gtgaccacct	360
cgtcgacccg cttcccgcgg cttttctcgc cggcctggac cgccgctatc agatcgtgcc	420
catgagacaa gcgactcgtc gaaaggacga cgatctcgta gtactgggtc cctgcgcaac	480

2577230PCTSequenceListing.txt

gctcagccgt ccgccccgt caaagtgtt cggcgagg gaccgtgcgc gagacgccc	540
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tggtcatcac gtcagtttaa cattcagttc actgaaggtc ctcagttcaa acctgggtgc	660
gatcaccttt ttggctcggc ggcattgcgc cttacaccc gcacgggtct acttcccttt	720
gcaagcgacc aagcgaagca tcctctcgct cgtaaagctg ccggcgagga ggtagacgg	780
gttggcgggc cgtcgaaggt cggctcacc tcaacgctgc cggctgacca cgccaggcga	840
gctatcattg ctttgaaagc ttcgaaaacg cccaggcatg cacagaaagc cgcccgcgag	900
aggctcaagt tggcgccgag ctgcggtcga gagacgacga cgacgtggga gctccctcgc	960
ctctcctcct ttctctccca ccccatcagc ccaagtgagt cgctcgtctt tccgcaaggg	1020
tcagcgcacg cgttgctccg cgacaggga gcgcgtgcgc tcaccagggt cccccgttcg	1080
ccggcgaggt tggcactgac gaggtgcctt gccccctcc gctccctcc cttttggcct	1140
cctctctcgc acgcacactc tctccctgca ccccttgac cttcccgaca ctctcccccc	1200
ccttcccacc gtccgaccat gg	1222

<210> 11
 <211> 1507
 <212> DNA
 <213> Rhodotorula graminis strain WP1

<220>
 <221> misc_feature
 <222> (1)..(6)
 <223> KpnI cloning site

<220>
 <221> misc_feature
 <222> (1522)..(1527)
 <223> NcoI cloning site

<400> 11	
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acacgcagac atcgtcgacg ccgtcgacg acgcccactt tgccgtccag accctgtcgc	180
gcttcggcct cgcgtacctc ctcgcgtcgt ccaacacgct caaggacacg tggctgagcg	240
tgtgcgcgcc cgccggcgcc aaggggccccg aaccgcagct cgacgacctc gagctcgaga	300
agcgcgagca ccgcgacaag tggctcctcg ggcgcacatc gggccagggc aagcaggact	360
cggcgctcgg ggacgcagtc gctgtcgtga gtcctctact ctcggccggt ctcgagactt	420
gggggtgcgag attgaccttg cgctcccgcc tctcgttgc agcaattcca caagcacttt	480
ccgcacctgc gctcggcgca cctcttcccc ggctttgtct ttacgtgcgt ccctctcgtt	540
ccccctctc tccacgtgcg ccaccagcct gactcgcccc tcgcctgccc cgtcccgcag	600
caacgccctc gcgtcgacct cgctcgctcc ctcgccgatc ctgtcgtgtt acaacctcgt	660
cgggccccctc gcggcgcgca tcctgccctt tggcaacctg cccgagacgt acgccgacgt	720
gcccgtgtac gtcgcggcca acccggcagc gcgcagccaa gggctcgagt actgcaacga	780

2577230PCTSequenceListing.txt

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ggacgggctg agggccatga tcgaggagt agctggtggg cgggcgagcg aggagccga	900
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gtggctgtag ccagtctcgc tttgcagtgt cactcttgta catagctgag caaggcctag	1020
cgtcgcgaga gagctgcgct gtggcgccctg gtcgagggcc gagagcgtcg cgctcagggg	1080
cgagctgctc gcggctcacc aaggggctcg agcgggtgcgc gctcgacagg ggaccgagag	1140
ctgcaggaga cagaccggag gaaaaagctc tggcgagcga ggagcggggc cacactgagt	1200
ctggggaagc gacggacgag gatgagcgca tccactcttg agtttcgccg aggcgcgagc	1260
tggcggtcga caaccgagca agctcctcct cttcctccac cacactcgcc cctagcacac	1320
gtgagtctcg ctccctcgcc actgtcgacc agcacacgct cgtccaccgc cctgtgcgcc	1380
ctgtgcggct tgcggtcgag cgaggccgcg ggtcgggtct ctgccaccgc aggaaccatc	1440
gatgtcgctg acgcttcgct cctcgtcctc ctccctcctc caccgcgccg agctacctac	1500
accatgg	1507

<210> 12
 <211> 1646
 <212> DNA
 <213> Rhodotorula glutinis ATCC 204091

<220>
 <221> misc_feature
 <222> (1)..(6)
 <223> AscI cloning site

<220>
 <221> misc_feature
 <222> (1641)..(1646)
 <223> NcoI cloning site

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agctaactaa cgctctgggt tcgctggcag tcatgcacgg ccttggctcg tcaacctcgt	180
tctgggaagc gcccttctcc cgctcaaacc tgtcctcccc cttccgcctc atccgctacg	240
acttcgacgg ccacgggtctc tcgcccgtct cgtccctcga cgcagcagat gacggcgcca	300
tgatcccgct cgacgacctc gtcggggact tggcggtgt gatcgagtgg gctgggggtg	360
agaaggttgc gggagttgtt ggacactcga tgagcgggct ggtggcgagc acatttgcg	420
ccaagtacc gcagaagctc gacaagctcg gtgagtcgca ttgaaccttc ctccgccgtc	480
tcttctccgc tgacgattcg tcgacttggc cctgcttctc gcgcagtcct cctcggcgca	540
atgcgctctc tgaaccctac cgtccaaagc aacatgctca agcgagccga tacagtcctc	600
gaatccggcc tctcagcaat cgtcgcacaa gtcgtctccg ccgctttgtc cgacaagtca	660
aagcaggact cgcccctctc ggcagcgatg gtgcgaacgc tcgtgcttgg aacggaccgc	720
agagggtacg cggcggcgtg tagggcgctt gcgggtgcga aggacccgga ttactcgagc	780

2577230PCTSequenceListing.txt

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atcaaggccg agacgttggg tgcgttcgct tgttctcctt cctctgcttt tctcccagca      840
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gagacgaccg acgcgctggt caacgacatc ccgggcgcgg agaaggtcca gatggacagt      960
gtcggccact ggcacgccgt cgaggacccc gttggactcg ccaagatcct cgatgggttc     1020
ttcttgacgg ggaaatgagg ttgggaaggg gggatagact ggggagaacg gcaggtgcgt     1080
acgcagcgga cgtcggtcgg gaggactttt tcggggagga tattcgctga ctgactccga     1140
cgtcgctttc ctccttgacg tatcttcaga agggatggga ggaggcgaac tgcaagggta     1200
atgaacgaga caacgccgag ggaggaagcg ccggaactct cgggggcgaa gaaggagtgg     1260
tgtcttcgcc agcgaacagc ttccggggtg gggttgacag cgccagtaga attccagcgt     1320
cgcaacagag ctctagtcga ccgcgatcac ccacaaggac gagagcgggt cgcgccttgt     1380
ccgcttcccc atcctcgtcc tgctcttgct ctcttccta ccacactctc ccgcttgagg     1440
gctctctttc tcgcttgagg ctctgctac cgctactcta gactctcta gtctccctgc     1500
acaaccatcc ctatccctc cgcctctctc gcacaccccc cacagcttcg ttccccaact     1560
tcacttccga tgccgtgcgt cgcctccctt tcgcctggcg ggcccgcgcc tgcttccgag     1620
gacaactact gattgtggga ccatgg                                     1646

```

```

<210> 13
<211> 28
<212> DNA
<213> Artificial Sequence

```

```

<220>
<223> PCR primer

```

```

<400> 13
aaaggtaccg tgcgagaaga agcgaggc                                     28

```

```

<210> 14
<211> 34
<212> DNA
<213> Artificial Sequence

```

```

<220>
<223> PCR primer

```

```

<400> 14
aaaccatggt tcccccccag tacacagtac agta                                     34

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```

<210> 15
<211> 29
<212> DNA
<213> Artificial Sequence

```

```

<220>
<223> PCR primer

```

```

<400> 15
aaaggtaccc atgctgctgc tgcccctca                                     29

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```

<210> 16
<211> 31

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2577230PCTSequenceListing.txt

<212> DNA
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 <220>
 <223> PCR primer
 <400> 16
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<210> 17
 <211> 29
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> PCR primer
 <400> 17
 aaaggtaccc aaaggagag gagcgggcg 29

<210> 18
 <211> 33
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> PCR primer
 <400> 18
 aaaccatggt gacctacgcc tacacaaggg tgc 33

<210> 19
 <211> 28
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> PCR primer
 <400> 19
 aaaggtacct gagcgggcga gccgcgag 28

<210> 20
 <211> 33
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> PCR primer
 <400> 20
 aaatcatgac tgaacaaagt tttcctgcgg cgc 33

<210> 21
 <211> 31
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> PCR primer
 <400> 21
 aaaggtaccg ctcatcatcg agcgaggga g 31

2577230PCTSequenceListing.txt

<210> 22
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR primer

 <400> 22
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 <210> 23
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR primer

 <400> 23
 gactagtcgc cagggaaacgc agagaagg 28

 <210> 24
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR primer

 <400> 24
 aaaccatggc tgtgagagga gtatcgag 29

 <210> 25
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR primer

 <400> 25
 gactagtcgg cgaagaggag ggggtgttagg 30

 <210> 26
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR primer

 <400> 26
 aaaggatccg ccattgagggt tcaaaggctg ggcg 34

 <210> 27
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR primer

 <400> 27
 gactagtcgt gcagaaggaa cccgaggag 29

2577230PCTSequenceListing.txt

```

<210> 28
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 28
aaaccatggc gaggcgagag gggttgag                28

<210> 29
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 29
gactagtcgg gaggattgat gatcggggtg c            31

<210> 30
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 30
aaaccatggg ggtcgagctt gtgagg                26

<210> 31
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 31
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<210> 32
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<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 32
aaaccatggg cggacggtgg gaaggggggg ga            32

<210> 33
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

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2577230PCTSequenceListing.txt

<400> 33
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<210> 34
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 34
 aaaccatggt gtaggtagct gcggcgggt 29

<210> 35
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 35
 aaaggcgcgc ctgaagctgt acatcgaggt ggac 34

<210> 36
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 36
 aaaccatggt cccacaatca gtagttgtcc tcggaag 37

<210> 37
 <211> 672
 <212> DNA
 <213> Ustilago maydis

<220>
 <221> misc_feature
 <222> (1)..(6)
 <223> KpnI cloning site

<220>
 <221> misc_feature
 <222> (667)..(672)
 <223> NcoI cloning site

<400> 37
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 aagactgacc gaagaaacag cgagatctag aagtgataag cggaaagaat ctgacttgct 180
 gtgatcagca gccaaatctt ttttcgtttt ttttttttca ctccacatcg tcgtgcgtgc 240
 acggtctgca tgtgtaaatt gtattcatcg aaagccacag ttgaatacat cagcccgatg 300
 tggatttcga aaaccaatta atcttggaat tcacgcgctc agatcagtcc atagagtcga 360
 cttcggtctg ttccaagagc ttcttctctg cgagggtggt gcccgtgttt ctcgctggga 420

2577230PCTSequenceListing.txt

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aaaaaggatc gattattatt cgcttctacc tcgctcgcac ccttggcctg ctgaaggaaa      480
cagcgccgag actcggtcac ggttgctggg ctccgtgttg atgctgggac ggcgcaaagt      540
ggggcccgcg cactcttcga gccaaggacc tcactcttca agaacaagcg ctgtcgccat      600
cgtcttcttc tttctgctcc accatcgaat ctttctttct cgtttcgaaa ccaaaacact      660
cttcacccat gg                                                         672

```

```

<210> 38
<211> 1450
<212> DNA
<213> Rhodosporidium toruloides

```

```

<220>
<221> misc_feature
<222> (1)..(6)
<223> KpnI cloning site

```

```

<220>
<221> misc_feature
<222> (1445)..(1450)
<223> NcoI cloning site

```

```

<400> 38
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accctgtgcg ttctgcgccc tccctcgtct cgggaggcag tgtctgacag aagctttgcg      180
cgcagtaccc cgtcaagatg caactctacg caacgttcgg cacagaagtc gccaagctcc      240
gcgcacgcgc gcctcaagct ctcgcgctgc ccgacgggtg cgtctattac gaggcggaga      300
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agctcgtgag caagcggagg tgcgaggctc cctcgaaagc tgcgcctctt cagacggctt      660
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tcggtctcaa ttcgacgttg aaagggcata gcgcaaggaa gaaccctctg cggacatgca      780
gaattactgg ctgcctgct ccttcgtcta ctggaataag tcctgtctcg ttaaagcccc      840
aacgtcgttt ttcgacgttt gtaaggcgca agagggtgcta tgggctacgc aggaagctga      900
gaggacatag aagtcggggg aggaacggcg cagagcggca gttgcggaag catgaggaaa      960
gcgagacggt ccagcatctg cagcgccaat ccgcaatctc ctggttgagc ctgcaccgga     1020
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agcaacctcg gagatggaca cgtcacatca ccaacttata gatctcggcc gtcgacgtcg     1200
cagagagggc gagagaagcg gtgaaggagg gaaacaaccc ctcgagagca tgatccgacc     1260

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2577230PCTSequenceListing.txt

```

gaatctgcag cgcaggaagc cgttacaagc cgcctctgag cgcaggtcgg gtccagccgg 1320
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cctttgccct ctttcccatc acccgttctc gccttaccgc ctgagaacaa caccagatca 1440
ctcaccatgg 1450

```

```

<210> 39
<211> 963
<212> DNA
<213> Rhodotorula graminis strain WP1

```

```

<220>
<221> misc_feature
<222> (1)..(6)
<223> AscI cloning site

```

```

<220>
<221> misc_feature
<222> (958)..(963)
<223> NcoI cloning site

```

```

<400> 39
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tcgccttctt ctcggtccct gtcgagctcg gcgtgcgtcc cgccgctctc tctctctctt 120
tctctcggcc gcgcctcacg tgatccacga cgtcgtactg acccttgcca atgtgcgcgc 180
ccgcagccca acggcgctga gaaggtgcac ccgctcggcg acctgacggc gttcgagaag 240
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atgtgagagg aggcgtttcc tccaccttgg accccatctg ccgcctccct ttctctctct 420
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agagagaaga ggccacggtc caggacgacg acgacgagga ggaagcgcaa aaggcgagac 660
accgagtgcc atcgattccc cgctcgaacc tgctcacggc tgtcgaaggc ggtgcgccac 720
ggtgcttgcg ggagcgaaag caagctggcg tcgtcctctt gaactgggtc gagtccgtga 780
gggcgggcgc gagaactcag gcgaggtgct cgcgtcggaa caagccgggc ttgtggtcga 840
gggagcgaga gcgaggcagc gccgtcgtcg ccgaggcaag agcggcatcg acaagttggc 900
ccgtcgcttc tcgtccctc ttctcctcct cccaccacca ctttctcca gtcgaacca 960
tgg 963

```

```

<210> 40
<211> 2148
<212> DNA
<213> Rhodotorula glutinis ATCC 204091

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```

<220>
<221> misc_feature

```

2577230PCTSequenceListing.txt

<222> (1)..(6)

<223> AscI cloning site

<220>

<221> misc_feature

<222> (2143)..(2148)

<223> NcoI cloning site

<400> 40

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cagccccac gagcgctca aaagacgcgg acgcagacgc ccgccgaacg acggcacgcc      180
cctcttctca ctacgcgac gaaccagctg cgacgattcg tgcgcttatg ttagccggac      240
ttctggcttg ctttgcgctg ctgcgtccgt cttgtggtgc ggatcggtc gatgggggtt      300
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2577230PCTSequenceListing.txt

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