

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

<160> 41

<170> PatentIn version 3.5

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<213> Rhodotorula glutinis ATCC 204091

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<223> KpnI cloning site

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ggaagaggta gaaatgccac gccgaagcga aggtgacggc aaactgcgag agggacgagg     420
tcagtgcgag ggtccgcaac agggagaggg cactcgtcac ggaccatcat ccagcccagg     480

```

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
cacggccccg agcactagac aggtgatgtt ggcgaccgcg ccgccgacgg cgagagcgag      840
aacgctgtag acgaagtgct tgatgcgtcg gtggattggc gctcgtcgga tcctcgcgat      900
ctgggccttg gtgagcggtg gtggcgggcc aagcggtggg ccagcagctg tgctcatcgc      960
agcagcggtg cggcgcaaga gcgactgtgg agctcgaggg agaggagcgc ggcaggggaa     1020
agcgagaccg aggaggagcg agcgcggaca ggcgaggcgg accggacgtt ccggtgcggc     1080
tcgactggcg tgcgagacga gcaggccgtc gccggaagca gccgtgtccg gcgaaagag     1140
ccaggcgcgc gagcggggcg gagcagacag cggcgggtcc agcgcgcggg gcaggttcga     1200
cgaaagtcgg gctcgggtca ggctcgcgcg agcgcattgag atgccgtcga gcgagcccat     1260
gtacagagtc gagcgagaga gcgaagtgcg tggaaggaga 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 cgaccaccat 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
ggtaccgcga ggggaagggc aggagagtcg ccggaacacc gggcaaggag acaaggacaa      60
agagcgagcg cgcacgcacc gtctggcggt cgggctgggt ggggcgggtc cgagtagcgc      120
tgaccgaaga gcgaggagga ggaaaagcga gcgcggcggg cgtgggaagg agggcaagga      180
gggcggcggc gacgcaaaa aaggccagat tcgcggggca gtgatcgagt gccgtccgcg      240
agctcaacca gcgagcgtc tctcgcgcgc agcgggtgcgc ttctttcgcc agccgatgcg      300
caccgttcag aagcacgtcg cccgcaccga gagcgcctcc tcgcgagcct gtgaccacct      360
cgtcgacccg cttcccgcg cttttctcgc cggcctggac cgccgctatc agatcgtgcc      420
catgagacaa gcgactcgtc gaaaggacga cgatctcgta gtactgggtc cctgcgcaac      480

```

2577230PCTSequenceListing.txt

gctcagccgt ccgccccgt caaagtgtt cggcgagg gaccgtgcgc gagacgcccc	540
agttggcctc ctcaagtcgg tagatccagc ttaacgctat caagggttgc atggtgtagt	600
tggtcatcac gtcagtttaa cattcagttc actgaaggtc ctcagttcaa acctgggtgc	660
gatcaccttt ttggctcggc ggcattgcgc cttacaccc gcacgggtct acttcccttt	720
gcaagcgacc aagcgaagca tcctctcgtc 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 cgacagggca 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	
ggtaccacta cctcgtcacg acccagggtg cgttccccctt ctcgccgcgt ccacagccac	60
gacgttgcca gtccttaacg cgtccgctcc cccgtgcagg tggtcctccg cacggcgcct	120
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
caacgcccctc gcgtcgacct cgctcgcccc ctcgccgatc ctgtcgtgtg acaacctcgt	660
cgggccccctc gcggcgcgca tcctgccctt tggcaacctg cccgagacgt acgccgacgt	720
gcccgtgtac gtcgcggcca acccggcagc gcgcagccaa gggctcgagt actgcaacga	780

2577230PCTSequenceListing.txt

```

gcgcatgaag ccgctcggga gcccggcgtg ggccgagggc gcgacgggcg caaaggtgtg      840
ggacgggctg agggccatga tcgaggagtg agctggtggg cgggcgagcg aggagccgga      900
gaggaggggc ggaacgtgtt tgagaaggtc gcgctttgct cgtcggtcgc gggcgagcc      960
gtggctgtag ccagtctcgc tttgcagtgt cactcttgta catagctgag caaggcctag     1020
cgtcgcgaga gagctgcgct gtggcgccctg gtcgagggcc gagagcgctc 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 cgaggcccg ggtcgggtct ctgccaccg aggaaccatc     1440
gatgtcgctg acgcttcgct cctcgtcctc ctccctctcc caccgcccgc 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

```

```

<400> 12
ggcgcgcctg aagctgtaca tcgaggtgga cgacagcgcg ggcaaggatg cgccagcaat      60
cgtttgtggg tcgcttcttt cctcgcagca cgcttttgtc ggctccctga tcagcacaca     120
agctaactaa cgctctgggt tcgctggcag tcatgcacgg ccttgggtcg tcaacctcgt     180
tctgggaagc gcccttctcc cgctcaaacc tgtcctcccg cttccgcctc atccgctacg     240
acttcgacgg ccacgggtctc tcgcccgtct cgtccctcga cgcagcagat gacggcgcca     300
tgatcccgct cgacgacctc gtcggggact tggcggtgtg gatcgagtgg gctgggggtg     360
agaaggttgc gggagttggt ggacactcga tgagcgggct ggtggcgagc acatttgcg     420
ccaagtaccg gcagaagctc gacaagctcg gtgagtcgca ttgaaccttc ctccgccgtc     480
tcttctccgc tgacgattcg tcgacttggc cctgcttctc gcgcagtcct cctcggcgca     540
atgcgctctc tgaaccctac cgtccaaagc aacatgctca agcgagccga tacagtctc     600
gaatccggcc tctcagcaat cgtcgcacaa gtcgtctccg ccgctttgtc cgacaagtca     660
aagcaggact cgcccctctc ggcagcgatg gtgcgaacgc tcgtgcttgg aacggaccgg     720
agaggggtac cggcggcgtg tagggcgctt gcgggtgcga aggacccgga ttactcgagc     780

```

2577230PCTSequenceListing.txt

```

atcaaggccg agacgttggg tgcgttcgct tgttctcctt cctctgcttt tctcccagca      840
actgacgcaa gcgtctgcaa cacagtcgtc gcaggcgagt ttgactacct ctcgaacaag      900
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 ttccgggggtg gggttgacag cgccagtaga attccagcgt     1320
cgcaacagag ctctagtcga ccgcgatcac ccacaaggac gagagcgggt cgcgccttgt     1380
ccgcttcccc atcctcgtcc tgctcttgct ctcttccta ccacactctc ccgcttgagg     1440
gctctctttc tcgcttgagg ctcttgctac cgctactcta gactctccta 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

```

```

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

```

```

<220>
<223> PCR primer

```

```

<400> 15
aaaggtaccc atgctgctgc tgcccctca                                     29

```

```

<210> 16
<211> 31

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2577230PCTSequenceListing.txt

<212> DNA
 <213> Artificial Sequence
 <220>
 <223> PCR primer
 <400> 16
 ataccatggt ggatgaagtg agattcgagt g 31

<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
 aaaccatggc ggcgggtgat tcttcttggt tc 32

 <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
aaaggtaccg cgaggggaag ggcaggagag tcg        33

<210> 32
<211> 32
<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

```

2577230PCTSequenceListing.txt

<400> 33
 aaaggtacca ctacctcgtc acgacccagg gtg 33

<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
 aaaggcgcg ctagaagctgt 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
 ggtaccggcg cgctagtcct taaaactgaa ggcgggaaac gacaatctga tccaagctca 60
 agctaagctc tagtgattag atcttgctga taggcagggt tgcttggaga atggggggaa 120
 aagactgacc gaagaaacag cgagatctag aagtgataag cggaaagaat ctgacttgct 180
 gtgatcagca gccaaatctt ttttcgtttt ttttttttca ctccacatcg tcgtgctgctc 240
 acggtctgca tgtgtaaatt gtattcatcg aaagccacag ttgaatacat cagcccgatg 300
 tggatttcga aaaccaatta atcttggaat tcacgcgctc agatcagtcc atagagtcga 360
 cttcggtgtg ttccaagagc ttcttctctg cgagggtggt gcccgtgttt ctcgctggga 420

2577230PCTSequenceListing.txt

aaaaaggatc gattattatt cgcttctacc tcgctcgcac ccttggcctg ctgaaggaaa	480
cagcgccgag actcggtcac ggttgctggg ctccgtgttg atgctgggac ggcgcaaagt	540
ggggcccgcg cactcttcga gccaaaggacc tcactcttca agaacaagcg ctgtcgccat	600
cgtcttcttc tttctgctcc accatcgaat ctttctttct cgtttcgaaa ccaaaacact	660
cttccacat 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	
ggtaccggcg cgctagtctg cagaactacg ccctctcaca cccaacttcc gactcgaccg	60
gcggtacgag cagcacctac ttctactgcc tgccatcgac atccgggagg gtcgctgcct	120
accctgtgcg ttctgcgccc tccctcgtct cgggaggcag tgtctgacag aagctttgcg	180
cgcagtaccc cgtcaagatg caactctacg caacgttcgg cacagaagtc gccaaagctcc	240
gcgcacgcgc gcctcaagct ctcgcgctgc ccgacgggtg cgtctattac gaggcggaga	300
agctcgagtt gccggctttg ccagcggcgg tcaagggtga ggtggagacg gagaaggcgg	360
gagtagcggg ggaggacaat gaggcgaagg gtgagatggt gctggaggag actcttacgg	420
tggagcagga ggagattgaa ttgggctcgg gagtcgtgca gattgaggag tcgttgctcg	480
tcaagctgga ggtcagcggc tgatccttcc gttcgttgca aggatcgtct gcatgtttcg	540
cttctctcaa tgacacaacc tggagagcgc tcccgtcagc gagaatcgag gacattccgc	600
agctcgtgag caagcggagg tgcgaggctc cctcgaaagc tgcgcctctt cagacggctt	660
gttctctcct gctctggtgg gctggcctga catgtaatgt gtcgcccgcc aagtcgctcg	720
tcggtctcaa ttcgacgttg aaagggcata gcgcaaggaa gaaccctctg cggacatgca	780
gaattactgg ctcgcctgct 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
agcgtcggaa cagtatgcgc agagtcgaac gcaagtaaga aagacgcacc ctacactcg	1080
cttacttcga gccatacaac ggatcaaagc tgcgcgtatc tcggcttgta agggccggaa	1140
agcaacctcg gagatggaca cgtcacatca ccaacttata gatctcggcc gtcgacgtcg	1200
cagagagggc gagagaagcg gtgaaggagg gaaacaaccc ctcgagagca tgatccgacc	1260

2577230PCTSequenceListing.txt

gaatctgcag cgcaggaagc cgttacaagc ccgcctcgag cgcaggtcgg gtccagccgg 1320
 gggacgaaac gcgcgaggct gattcgtgag cgaaggaagc cgcacgcaca agttcgctcc 1380
 cctttgccct ctttcccatc acccgttctc gccttaccgc ctccagaaca 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
 ggcgcgccta cgtctacgtc aagggcaatg ccgacgtgac caaggccatc ggccaggacc 60
 tcgccttctt ctcggtccct gtcgagctcg gcgtgcgtcc cgccgctctc tctctctctt 120
 tctctcggcc gcgcctcacg tgatccacga cgtcgtactg acccttgcca atgtgcgcgc 180
 ccgcagccca acggcgctga gaagggtcac ccgctcggcg acctgacggc gttcgagaag 240
 gagtcctcg aggcgtgcct cggcgagctg cccgggtcca tctccaaggg cgagtcgttc 300
 atccagggct ccaagctctg actcgccggc gcatcgacgg gcgcgagcca caaggcgagg 360
 atgtgagagg aggcgtttcc tccaccttgg accccatctg ccgcctccct ttctctctct 420
 ttctttccct tctctctctt ctctctctct ctcgttctcc tctttctggg cctctcggac 480
 ctcttcctcg ccgtcgactc gtgaaaatgc agtgcgcgtt tctgtacctt gtcctgcgag 540
 agagatctgg ttctgcgagg gtgagtcgtt gccttgggcg tggcacgcct cgccgcagcg 600
 agagagaaga ggccacggtc caggacgacg acgacgagga ggaagcgcaa aaggcgagac 660
 accgagtgcc atcgattccc cgctcgaacc tgctcacggc tgtcgaaggc ggtgcgccac 720
 ggtgcttgcg ggagcgaaag caagctggcg tcgtcctctt gaactgggtc gagtccgtga 780
 gggcggcgac gagaactcag gcgaggtgct cgcgtcggaa caagccgggc ttgtggtcga 840
 gggagcgaga gcgaggcagc gccgtcgtcg ccgaggcaag agcggcatcg acaagttggc 900
 ccgtcgctc tcgtccctc ttctcctcct cccaccacca cttttctcca gtcgaacca 960
 tgg 963

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

<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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ggcgcgccac catctcctcg tcgcttcttc cctctccttc ggcgcccaca ccgcttcgca      60
gggctcacgg actgctcaca tcgtttgtgt gcgtcgctgt gcatgtccac gcaccactcc      120
cagccccac gagcgctca aaagacgcgg acgcagacgc ccgccgaacg acggcacgcc      180
cctcttctca ctacgcgac gaaccagctg cgacgattcg tgcgcttatg ttagccggac      240
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