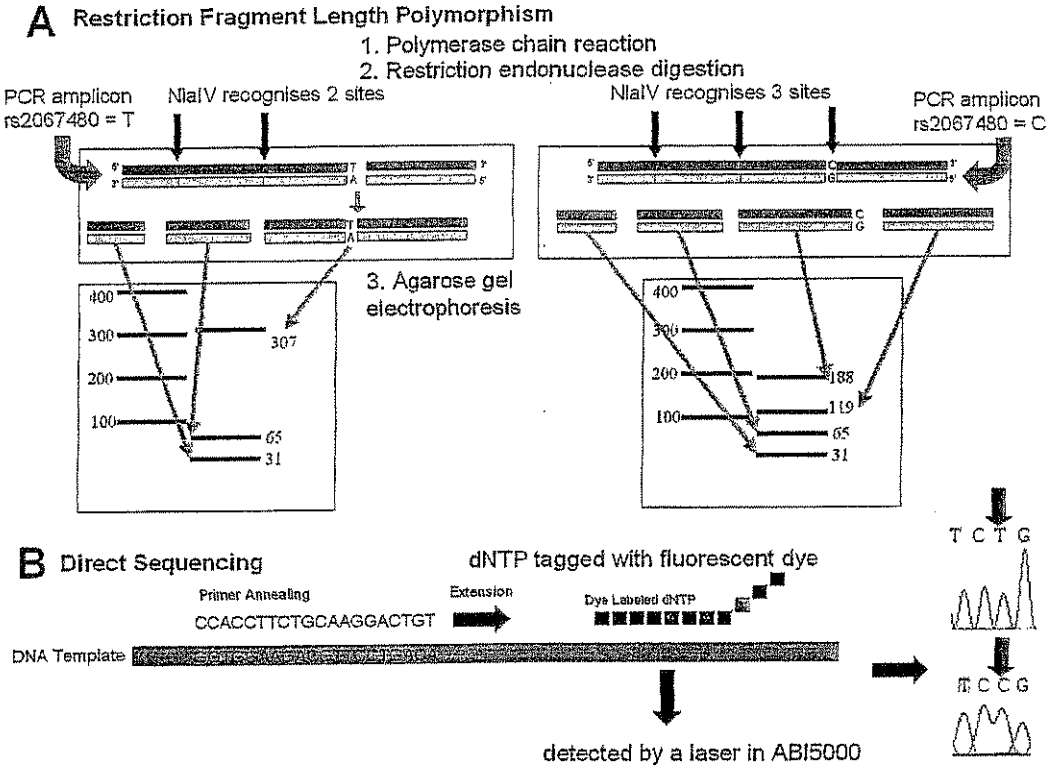
Figure 1


A Restriction Fragment Length Polymorphism
1. Polymerase chain reaction
2. Restriction endonuclease digestion
PCR amplicon rs2067480 = T
NlaIV recognises 2 sites
NlaIV recognises 3 sites
PCR amplicon rs2067480 = C
3. Agarose gel electrophoresis
400
300
200
100
307
65
31
188
119
B Direct Sequencing
dNTP tagged with fluorescent dye
Primer Annealing
Extension
Dye Labeled dNTP
CCACCTTCTGCAAGGACTGT
DNA Template
T C T G
T C C G
detected by a laser in ABI5000

SEQUENCE LISTING

<110> Singapore Health Services Pte Ltd

<120> Method and/or kit for determining response to muscarinic receptor antagonist treatment

<130> FP4372

<160> 8

<170> PatentIn version 3.4

<210> 1
<211> 2863
<212> DNA
<213> Homo sapien

<220>
<221> n
<222> (1353)..(1353)
<223> n is C or T

<400> 1
tggggctcaa attgggtgcc ctggtgaagg agggggggcac actccagaac ctagtccaac 60

cccagacgct gcctgaggct tccctccagc tcccctcccc tccttttctc cctttcctcc 120

ctccctctct ttccctttct ccctccccgc taaggctggc gtgccagggg gtgggacatg 180

ccaatcactg gctgtgcctc tcccgctgcc agcacagggc gcagctcccc ctgggagcca 240

ggtgtttggg tccctggaga cgccgcaggc ccccagggag gcagtggggc tgaggaccct 300

acagacccct cttcagcccc gtggtgatga ctttcccctg aggaagccct gtagcgtgcc 360

tggaggaagg ggctctccaa ccccagcccc acctagccac catgaacact tcagccccac 420

ctgctgtcag ccccaacatc accgtcctgg caccaggaaa gggtccctgg caagtggcct 480

tcattgggat caccacgggc ctcctgtcgc tagccacagt gacaggcaac ctgctggtac 540

tcatctcttt caaggtcaac acggagctca agacagtcaa taactacttc ctgctgagcc 600

tggcctgtgc tgacctcatc atcggtacct tctccatgaa cctctatacc acgtacctgc 660

tcatgggcca ctgggctctg ggcacgctgg cttgtgacct ctggctggcc ctggactatg 720

tggccagcaa tgcctccgtc atgaatctgc tgctcatcag ctttgaccgc tacttctccg 780

tgactcggcc cctgagctac cgtgccaagc gcacaccccg ccgggcagct ctgatgatcg 840

gcctggcctg gctggtttcc tttgtgctct gggccccagc catcctcttc tggcagtacc 900

tggtagggga gcggacagtg ctagctgggc agtgctacat ccagttcctc tcccagccca 960

tcatcacctt tggcacagcc atggctgcct tctacctccc tgtcacagtc atgtgcacgc 1020

tctactggcg catctaccgg gagacagaga accgagcacg ggagctggca gcccttcagg 1080

gctccgagac gccaggcaaa gggggtggca gcagcagcag ctcagagagg tctcagccag 1140

gggctgaggg ctcaccagag actcctccag gccgctgctg tcgctgctgc cgggccccca 1200

ggctgctgca ggcctacagc tggaaggaag aagaggaaga ggacgaaggc tccatggagt 1260

ccctcacatc ctcagaggga gaggagcctg gctccgaagt ggtgatcaag atgccaatgg 1320

tggaccccga ggcacaggcc cccaccaagc agnccccacg gagctcccca aatacagtca 1380

agaggccgac taagaaaggg cgtgatcgag ctggcaaggg ccagaagccc cgtggaaagg 1440

agcagctggc caagcggaag accttctcgc tggtcaagga gaagaaggcg gctcggaccc 1500

tgagtgccat cctcctggcc ttcatcctca cctggacacc gtacaacatc atggtgctgg 1560

tgtccacctt ctgcaaggac tgtgttcccg agaccctgtg ggagctgggc tactggctgt 1620

gctacgtcaa cagcaccatc aaccccatgt gctacgcact ctgcaacaaa gccttccggg 1680

acacctttcg cctgctgctg ctttgccgct gggacaagag acgctggcgc aagatcccca 1740

agcgccctgg ctccgtgcac cgcactccct cccgccaatg ctgatagtcc cctctcctgc 1800

atccctccac cccagtcccc gggaaaggcc ggtgggaaga gggcaggggc tgcatcctca 1860

gccccagggc cctgctcagg cctcacctgg cttcccagga ccctgggtca ccttcctggg 1920

cagcccagag agaccctgcc aactttccag acttcgctat tcccaggcag ggagggaaac 1980

ccggggaact ggtttttctg ttccctgctg ggtgggaatg cgctcttcac caggaagaag 2040

gcccgggagg aggatccggg ctttggactc cttgtttgcc tttaggcagg aagtcaggag 2100

ccagcagggc gggccaggag aaagaaggct taacattaag tattccttgg cccagcagcg 2160

gcccagattg cggtgtgaga tggtgccccc tgggggggcac agccagaaac tgaactggcc 2220

gctgggagaa aagccagatg acagggagct ggggaatccc ctcgcttcat aggcagagcc 2280

cgcccacctg ggccctaggc atactctcca ggattgtcca caaatgtcct cagagggtcc 2340

ctaggtgggt caactccaag gcaaatgtcc aagcatcagc aagacaatga cactggaagg 2400

gtccggcttg gctagtcaca tatcaagtcc cgaggcagca acaggaccag gagccaggtg 2460

tcctgactgt cctacaatat cattttcctg ggagtgggag tcaagtgtgc ctgctatcca 2520

gccgcaaatc catacccccct gccccagaga agcctcagtc cctcccctcct ggctcacagc 2580

caccacctgg atggatctgc tccatgcaga tctagccagg cctcccgcat gctgcctgcc 2640

tccggccctg ccccacacag gcctggccca gccagcaggt tctctcctgt gagctcccca 2700

atccaaccca tgcatggcct cccagccacc cggatctcca ggcccagcct ggccccaaat 2760

gttctttcct ttcatcctca gcaagtgctg agtctgtgaa taaagccaca taaccagcgg 2820

gcaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 2863

<210> 2
<211> 180
<212> DNA
<213> Homo sapiens

<220>
<221> n
<222> (52)..(52)
<223> n is C or T

<400> 2
tggatccagg ccgtctgcct ccgagaccaa cctcttgaac cctactcctg cncttgaggg 60

gttgcggggg tttgccagcc tccttgccca cctcagctag cttactcaag cccaactttg 120

aatcagttaa cgatgagcaa tcggtccttc tttcagaatc tggcctcctt tgtgtgcgcg 180

<210> 3
<211> 20
<212> DNA
<213> artificial

<220>
<223> rs2067480 forward primer

<400> 3
ccaccttctg caaggactgt 20

<210> 4
<211> 20
<212> DNA
<213> artificial

<220>
<223> rs2067480 reverse primer

<400> 4
ctgggaatag cgaagtctgg 20

<210> 5
<211> 20
<212> DNA
<213> artificial

<220>
<223> rs542269 forward primer

<400> 5
tttgcaaaag gcctaacctg 20

<210> 6
<211> 21
<212> DNA
<213> artificial

<220>
<223> rs542269 reverse primer

<400> 6
cctcttccca cagcactgtt a 21

<210> 7
<211> 20
<212> DNA
<213> artificial

<220>
<223> complementary to SEQ ID NO: 3

<400> 7
acagtccttg cagaaggtgg 20

<210> 8
<211> 11
<212> DNA
<213> Artificial

<220>
<223> BslI restriction site

<220>
<221> misc_feature
<222> (3)..(9)
<223> n is a, c, g, or t

<400> 8
ccnnnnnnng g 11

2

4