

Supplemental Table 1

Primer sequences used to generate hGPR109A point mutations

Mutant	Forward primer	Reverse primer
N2A	gctcgaattccgcatgtaccctacgacgtgcccgactacgc cgctcggcaccatctgcagg	aaaagatatcttaaggagaggtgggccagataagagggg c
N17A	ctggaaatagacaagaaggcctgctgtgtgtccgagatgac	gtcatctcggaacacacagcagccttctgtctattccag
N86A	ctgcctgcccttctgatggacgcctatgtgaggcgtgggact gg	ccagtccaacgcctcacataggcctcatcaggaaggga ggcag
N171A	gaagaagatgccgatccaggctggcggtgcaattgtgca gc	gctgcacaaattgcaccgccagcctggatcggcatcttctc
N175A	gccgatccagaatggcggtgacgcttctgtcagcagcttcagc	gctgaagctgctgcacaaagctgcaccgccattctggatcgg c
N265A	cctgcacacttcgggcacgcagcctgtgaagtgtaccgctcg gtgg	ccaccgagcggctacacttcacaagcctgcgtgcccgagg tgcagg
D14A	caggatcacttctgaaatagccaagaagaactgctgtgtgtt ccg	cggaacacacagcagttcttctggctattccagaaagtgatc ctg
K15A	ggatcacttctgaaatagacgcgaagaactgctgtgtgtcc gag	ctcggaacacacagcagttcttctgcgtctattccagaaagt atcc
K16A	cacttctgaaatagacaaggcgaactgctgtgtgtccgaga tg	catctcggaacacacagcagttcgccttctctattccagaaa gtg
C18A	ggaaatagacaagaagaacgcctgtgtgtccgagatgacttc	gaagtcatctcggaacacacagcgttcttctgtctattcc
C19A	ggaaatagacaagaagaactgcgctgtgttccgagatgacttc attg	caatgaagtcacatcggaacacagcagttcttctgtctatt cc
V20A	ggaaatagacaagaagaactgctgtgcgttccgagatgactt cattg	caatgaagtcacatcggaacacacagcagttcttctgtctatt cc
C19S	tagacaagaagaactgctgtgttccgagatgacttca	tgaagtcatctcggaacacagcagttcttctgtctata
C19T	ggaaatagacaagaagaactgcactgtgttccgagatgacttc attg	caatgaagtcacatcggaacacagtcagttcttctgtctatt cc
C19V	tagacaagaagaactgcgtgtgttccgagatgacttca	tgaagtcatctcggaacacacagcagttcttctgtctata
C19Y	tagacaagaagaactgctatgtgttccgagatgacttca	tgaagtcatctcggaacacatagcagttcttctgtctata
C19M	tagacaagaagaactgcatggtgttccgagatgacttca	tgaagtcatctcggaacacacagcagttcttctgtctata
C19D	tagacaagaagaactgcgatgtgttccgagatgacttca	tgaagtcatctcggaacacacagcagttcttctgtctata
C19E	tagacaagaagaactgcgaagtgttccgagatgacttca	tgaagtcatctcggaacacttcgagttcttctgtctata
C100A	ggaagttfgggacatccctccccggctgatgctctcatgttg g	ccaacatgaagagcatcagccgggcaggatgtcccaaa cttcc
C177A	ggtgcaaattggccagcagcttcagc	gctgaagctgctggcacaattgcacc
C183A	cagcttcagcatgccataccttccag	ctggaaggatgggcgatgctgaagctg
C266A	ggcacgcagaatgctgaagtgtaccgc	gcggtacacttcagcattctgcgtgcc