

ESM_1 Oligos used for *GABRA4* long-range PCR amplification

Oligo Name	Sequence 5'-3'	Size (bp)	Amplicon Genome Position	Overlap With Next Amplicon (bp)
GABRA4_LR1_F	CTGGGTGACTAGGTCATAGAATAGG	8736	chr4.hg19:46918162-46926897	210
GABRA4_LR1_R	CTCATTTATAACAGGGAGGAGGTG			
GABRA4_LR2_F	GGTAGGGAAACCTTAGTTTGAAGC	8980	chr4.hg19:46926687-46935666	230
GABRA4_LR2_R	GTGCCAGATAGATCAGCAGATACC			
GABRA4_LR3_F	AGTCTGGCTGAGAATGCCTTAG	8913	chr4.hg19:46935436-46944348	251
GABRA4_LR3_R	AAGTGAGTGACAGACGAAGAAGTG			
GABRA4_LR4_F	ATCCAGCCATCTAGTTACTCATCC	8878	chr4.hg19:46944097-46952974	50
GABRA4_LR4_R	CCCAGTATAGGTTTTCTGGCTATG			
GABRA4_LR5_F	GCGAGTATTAGATTCCTTCCTTC	8720	chr4.hg19:46952924-46961643	154
GABRA4_LR5_R	CTCCCTGAAACATACTTCCTGACTAC			
GABRA4_LR6_F	ATCTTCTTGACCTTGATGTGC	8968	chr4.hg19:46961489-46970456	27
GABRA4_LR6_R	TCCAGAAGTCTGAGTGAGATTAC			
GABRA4_LR7_F	CCATGTAATCTCACTCAGCAGTTC	8818	chr4.hg19:46970429-46979246	417
GABRA4_LR7_R	CCCTCCCTTCCTTCTATTTAGA			
GABRA4_LR8_F	CCAGCCAATTGTGACTAAGACTAC	8930	chr4.hg19:46978829-46987758	190
GABRA4_LR8_R	AGGGTTAGGATGTATCCATTGC			
GABRA4_LR9_F	GCTTAGAGTATAAGGCGGTGATGT	8856	chr4.hg19:46987568-46996423	25
GABRA4_LR9_R	GTCAACCTCTGGAAGTAAGTCAACTC			
GABRA4_LR10_F	GAGTTGACTTACTTCCAGAGGTTGAC	8790	chr4.hg19:46996398-47005187	-
GABRA4_LR10_R	CATGTGAAGATACATGGAGGACTG			