

TableS1. Primer sequence.

HA-GNAQ-F	5'-tctaggcgcggaattatgtaccatacgcagctcccagactacgctatgactctggagtcctcatggc-3'
HA-GNAQ-R	5'-gcggaattcgtaactagaccagattgtactcctcaggt-3'
HA-GNA11-F	5'-tctaggcgcggaattatgtaccatacgcagctcccagactacgctatgactctggagtcctcatggc-3'
HA-GNA11-R	5'-gcggaattcgtaactagaccaggtgtactcctcaggt-3'
GNAQ-QL-F	5'-cttctctgaccttagggcccctacatcga-3'
GNAQ-QL-R	5'-tcgatgtaggggccaaggtcagagagaag-3'
GNAQ-CS-F	5'-tcctcgctcaggctgctcgcctatggagc-3'
GNAQ-CS-R	5'-gtccatcatggcgagcagcctgagcgagga-3'
GNA11-QL-F	5'-gctccgaccgaggccccccaca-3'
GNA11-QL-R	5'-tgtggggggcctgcggtcggagc-3'
GNA11-CS-F	5'-cctcatcgctcaggctactcgccatcaggactc-3'
GNA11-CS-R	5'-gagtcctatgagcgagtagcctgagcgatgagg-3'
GNAQ-LP-F	5'-cttctctgaccttagggcccctacatcga-3
GNAQ-LP-R	5'-tcgatgtagggggccaaggtcagagagaag-3'
shGNAQ-1-F	5'-CCGGGCAAGAGTACGTTTATCAAGCCTCGAGGCTTGATAAACGTA CTCTTGTCTTTTG-3'
shGNAQ-1-R	5'-aattcaaaaaGCAAGAGTACGTTTATCAAGCCTCGAGGCTTGATAAACGTA CTCTTGC-3'
shGNAQ-2-F	5'-ccgg TCGTCTATCATAGCATTCC ctcgagGGAATGCTATGATAGACGA ttttg-3'
shGNAQ-2-R	5'-aattcaaaaaTCGTCTATCATAGCATTCCctcgagGGAATGCTATGATAGACGA-3'
shGNA11-1-F	5'-ccggGGAAGAGCACGTTTCATCAAGCctcgaggcttgatgaacgtgctctcttttg-3'
shGNA11-1-R	5'-aattcaaaaaGGAAGAGCACGTTTCATCAAGCctcgaggcttgatgaacgtgctctcc-3'
shGNA11-2-F	5'-ccggGCTTTGTGATGTCACCAATTTctcgagaaattggtgacatcacaagcttttg-3'
shGNA11-M-R	5'-taaagtacttttccgTCTCGCCGTGCCGAGCA-3'
shGNAQ-1-MF	5'-gggaaaagcacattcattaaaCAGATGAGAATCATCCATGGGTC-3'
shGNAQ-1-MR	5'-atgaatgtgctttcccACTCTCTCCTGTCCCGAGCAG-3'
shGNAQ-2-MF	5'-agagtgttacgaccggaggCGAGAATATCAATTATCTGACTCTACCA-3'
shGNAQ-2-MR	5'-tccggtcgtaacactctTGGATTCCAGGATCATTCCATAA-3'
shGNA11-2-R	5'-aattcaaaaaGCTTTGTGATGTCACCAATTTctcgagaaattggtgacatcacaagc-3'
shGNA11-M-F	5'-gcggaaaaagtacatttattaacagATGCGCATCATCCACGGC-3'