

**Supplementary Table S1** qPCR primer sequence

Gene name	F-terminal primer	R-terminal primer
ACTB2-like	GGCACAGAGCAAGCGTGGTATC	GATCTTCTCCATGTCGTCCAGTTG
FAK1-like	TCATGGTGGTGAGCAGAGACTCC	CAACATCCAGCGGACCTACAACAG
VAVA3	GCAGGATGACTCGCAGGTGTTC	CTCAAGCACAGGAAGTGGGACATC
DOCK1-like	TGGAGGAGCAGATACAGGAGAAGTC	GTACGAGTGAGTGGCGGAGAAATG
RHOA-like	GCTTGCCGTCCACCTCAATGTC	ATCGTGTTTACGCAAGGACCAGTTC
FGF9-like	GCGTAGTGAAGTACCGTCGAGTAAC	GCACACACATCCCTTTTGTCAATCC
FAK-1-like	TCATGGTGGTGAGCAGAGACTCC	CAACATCCAGCGGACCTACAACAG
PDGFRA-like	CAGCGTCGGTCATACAGGAGTTG	TTGCTCTTCTCGTCGTTGCCATC
ITGA11-like	TCACGCAGATGGAGTCCTTCCC	CATGAACGCCACGGTGACCTTC
RRAS2	CGGATTTGGAGGAAAGCGGATACC	TGGAAAGGGCAAGAGGAGGAAGG
ITGA8-like	TCTGGATGTGGTCTGCCTGGTAG	GTGTCTCTGAACTACAGCCTGGATG
COL2A1	TCATCGCCGTAGTTGAAGTGTAAGC	CACAGACCATCTCCCGCAAGAAC
Fgf4a-like	ACTGTATCGACTCGGCCGTG	CCCTTGCTGAGGCCGATGTA
RAC1	AAGCGATTAAGTGCCTGGTGGTC	GGGAAGGCGTTTGTGGTGTAGC
ARP2/3	CATGATGATGCGGGCGGAGAAC	CGTGTGGAAGTTGGTGATGAGGAAG

**Supplementary Table S2** qPCR primer sequence

Gene name	F-terminal primer	R-terminal primer
BAL	GCCAGCTTACTCGACAACCTCCTC	ACGGTAGTTGAAGGTCACCACAATG
ATGL	CTTCTGCTGGTTCCGTGCTCTG	GCTCTTCCTCCTCCTCCTCCTC
PNLIPRP2-like	CCTACTCGGGCTACACAGAGAGG	GGGTGGCTTTGGTGAAGAGGAG
DGL	CAAGACTGCTACGCTCACAAGGG	TGGTAATCCTGTGCCTGCTGAAAC
MGL	CCGACAAGACGCTGCACATCTAC	GCCACGATCCAAGCCTCAATCTC
IL-17	TGCTGGCGGTGTCTGCTTGGCTCGT	CTCTAGGTCCGGCTTGTAACGTA
IL1-1-like	CCAGGAGGGCAACGCACATC	CGGAACAGGTCGCTGCTCTTG
IL-8	AAGCTCCTTGTCGTCCTTCTCGCC	TTACTGCGTGGAATTTGGGTGCTCTG