

supplementary Table 1:primers of multiplex PCR

Gene	Exon	Forward primer	Reverse primer
IL-23R	2	CTAATCAAAGGTTCCCATC	TTGTTGAATGAAAGATAGCAAT
	3A	CTCTTGATTTAATGTTTTACGTG	TTATACCAAAGCCGAGCTG
	3B	CAGCAATTAAGAACTGCCAA	TAAACTAGCTTTTGTTCAT
	4A	TAAACCCCAGTGAGATGAACC	CTTATATGAAGCCGTGAGGA
	4B	AGATCCGCCAGATATTCT	AAGGGCTTTGGTAGTTTCAC
	5	TGCCTGGCCAATTAATTCAAAC	CAAGGTCAGCACAAACTGG
	6	CAGTTTCTCCCTAGGCAAG	TAATAAGTCCACTGTAGCCACT
	7	TTCTGCTAAATAAAAATAGTTGT	AAGATATATAAAGAAAAGCCCAA
	8	TAAACAAGGGAAGAAACTCCG	AAGGCATATCTTATTGTCCAG
	9	CTTTGAGCAGAGTAAAGAGA	GAAATGACTAAATTTTGGTGA
	10	TCCTATATGATTGCCTGCT	ATGATTTGAAACAGGTACAGT
	11A	AAATCATATGGGAAGATAAACA	TTCTTGAGTCTGTAGGCTT
IL-10	11B	GGTCTATATGTTGATCCCA	CTCCTTGATTAAATATGAGGC
	11C	AACACTGGATATAAACCCCAA	AGTATTAATAGATGGCAACTCC
	11D	GCAGTTCTCCTGACATACAAA	TCTATTGCAGGGAAAACCCAA
	1	TACACATCAGGGGCTTGCTC	TTAACTCACCAAACCCATGGCT
	2	AATCTCTAAATGAAAGGGCATC	GAGCCCTTTGTAAACCCTC
IL-10RA	3	TCCGCCAATCTCTCACTCACC	TCTGCCAGTCTGTGTCTTTGCT
	4	TGGAAGCCAGGATCACCAAC	GCTGAGCAGGTCATACCATC
	5	GGAGCCTATTTAGTCCCA	GGGCTTCTTTCTAAATCGT
	1	GACAGTGGTTCCCGTCCG	ATCCAGGTTTGCCAGAGTAAGGG
	2	TCCAGCTGTGGTACTGACACTC	AGGCACTCACTTCATTAACAAGG
IL-10RB	3	TCGTTTCCAGTGCCTAACCTG	CTTCAGAGCCATGTTCTAAGTCA
	4	TCAGCCCTCAAGTCTCATGGT	GCAAAGTTCCCAATGGCACAC
	5	GTTGGCTGAAATCACCTCT	TGAAGCAGCACCTAACACA
	6	ATTGCGAGAAACCTAGACACA	GCAAGCTAAGGCAATGGACT
	7A	TAGTCTCCTCCATCGAGCTCT	CTCCCTGTTTCCCAGCGTTC
	7B	GACTGAAGAGCCCCAGTTCCT	CAGCCTGTCTTGGTTGCCTT
	7C	GTTACCTGAGGCAGACCAG	AAGGTCATGGGCAAAGCTCC
	7D	CCAAGGGCTATTTGAAACAGGA	CCAGACTGCCTCGTGCCTA
	1	GATCCCTTCCTCTTCCTCGT	CCCGAAGGCTCTTAAGTCAC
	2	CCAAGGCTCCTTTGTCTGTC	TCCCTGAGGGTTGTACACAGT
IL-10RB	3	CAGCCTCAGGGAGACTGAAG	TCCTTGTCAGGACCATC
	4	ACCCTTCTTAGCCATGTCAATC	GGGAAAGGTCTGCTGTCACT
	5	GTGCCCTTCCACTGCTTAGT	TGAATGAGCTGCCTCAGAAG
	6	GTCTCTCAACCAGTTGCTGT	AATTGGGCAGCCCTAACTAGA
	7A	CAGTACTTGGGAGGCTGAG	TGAGATGGAGTCTCACTTTGTAC
	7B	CCCACATCTAGAACTCCAGAC	AACACAGTGCCTGGTCAACA
	1A	GCTCACTCTCTGCTGACCTCCG	CCGTGACCAGGCTGATGCTC
GPR35	1B	ACCCGCATCTACATGACCAACC	TCCTGAAGCAGAAGCCGCCCTC
	1C	GCCATCGCCGTGGACCGCTA	AGGAAGCAGACCACGAACACC
	1D	GGCCAACCTCCTGGTGTTTCG	CTGATCTCGGGCTCCTTGCTAC
	1A	AAAGAATTCTCAGTAAAGCG	TACATGAGAAAAGCACTCCC
GPR65	1B	TGTCTTTCTGCAAGCAAA	GTAATAATTAGACTTTTCGGCAT
	1C	TTGTTGAATATTGCGATGCC	CTTGTTAATGCAACCGTGA
	1D	TGTATAGAATCACGTTGCAT	TCTGAGAACACTTAGTCCCC
	1A	TTGCAGGGACTGAATAGCAAA	TCTTTCACGGAGCCCATGT
ADAM30	1B	TAAAAGGCAAGAAGCACGTC	ATCACTTAAGCCACAAACCTG
	1C	TGCCAAACATTACCAAATTGAGC	AGAGCCTTTAAGTGTATCCTC
	1D	CTGGATCCTATAAACACCC	TTTCCAAACGACCATGCAAG
	1E	GTATTAAATGCTCGCTGTCA	ATTTAGACATGTTGCTCCCGAA
ADAM30	1F	TATCCTTGCCCCTGCTACCTG	ACGAAACCGACAATCATGACA
	1G	TGCCAATCAAATTGTAAGTTGC	CCTGCCACATATTGAATTTGC
	1H	AAAGTGCAAATTCAATATGTGG	AATGCTTCCTCCATACCCCA
	1I	AATTGCGTCAATAGCTCAGTC	TTTTGCTTTGGATAGTGGCAT
FUT2	1J	TTCCCTCGTCAATTTGGGTT	ATAAATGAGCCTGTGTTACTGA
	1	GGCCTCTCCCATGCACTGT	CGTACTCGCCCATCTGGTTC
	2A	TGCAGATACCAGTGCTAGCCT	GTGAAGCGGACGTACTCCCC
	2B	CCCTGGCAGAACTACCACCT	TGTCAATGTTCTCCCGACACCA
TNFSF15	2C	TTGTAGGGGTCCATGTTTCGC	TCTCCGCCCCGTGAGGTATGC
	2D	CCATCATGACCATTGGGACGTTT	TTACTTGCAGCCCAACGCATC
	1	AGCTGGTCTTCTATTTAATGGGG	AGCTGAAATAGTTGCCACTCA
	2	GCTTTGTAATCATACCTGTGCTA	CCATTTTGCTTCTTAGTGC
TNFSF15	3	GTGCCACATTCCAATCCAA	ATGTAGTTTTTCATTTTAAGCCAC
	4A	TTCATTCTCCCAAAGCAGT	ATCCCACGGAATGTGACCTG
	4B	TTCCTGCTGATCCCAGAGTCG	AAAATTAGGAACTCGGTGGC
	1	CGCAGATGCCATGCCTGCTC	TGTCGCGGCCAAGGATGAAAG
TNFSF15	2A	GCCTTCCCTGACCACCCTGC	AGCAGCCATGCAGCTTGGGG
	2B	ACACCGTCTGGAATAAGGGTA	CCCTTTTCTGAGAACTCTG
	3	TCCCACATTGCTCCATCAGCC	TCTGCACTGACTGCCCTTCCC

NOD2	4A	CAGCAGCCCATTGTCTGGTT	CCAGCACAGTGTCCGCATC
	4B	CTGCCTGGAGGACATATACACA	CAAAGAGTAGAGTCCGCACAGA
	4C	CAGTGCATGGCCAAACCAC	CGCTTCCTCAGGTACAGCTC
	4D	TCCAGACCCTGCTCTTCAACC	CCTCCTGCAGCAACAGTTCC
	4E	ACCTGCCTGTCTTCTCATGGAT	CGTACTCCCTGGCACGACAC
	4F	GGCATGTGCTGCTACGTGTTCTC	GCTGCTGTCCTTTCCCTCCGA
	4G	CAGACACCTCTTCAATTGTGGC	CGCTCCTCCTGCATCTCGT
	4H	CAGCCTCCGCAAGCACTTCC	GGTGCTCCACACTTAGCCTT
	5	TTTTCTTGTCTTACTAGCTCCA	CAGTGAGCACCAAATCCCA
	6	TGCTCACTGTCCAATGTGCTT	ATCACAGCATTAGAGAACCCCT
	7	CCTCCTTTTCTGCCTGCCGC	AGTCCCAAGCCCCCTCCATGC
	8	GCCACTGAAAACCTCTTGGGT	AAAACCTGCAGGATAGACTCTGA
	9	GCACCACGAATTTTGCCCTCC	CCGCTCCTATGGATGAGGCCAG
	10	GGCATGTGAGTTCATCATCTTC	TTGTCCACCTAGACCAAGGC
	11	GGACAGGTGGGCTTCAGTAG	CCTCAAAATTCTGCCATTCC
	12	CTTTTGTTTGAAAGCCCTGC	CAGGGCTCATTTTGAAGAGG
