

Table 1. Primer sequences of various genes studied

Name	Primer Sequence (5'-3')	Gene size)
Tbet-forward	GTTCAACCAGCACCAGACAGAG	135 bp.
Tbet-reverse	TGGTCCACCAAGACCACATC	
IDO1-forward	CAAAGCAATCCCCACTGTATCC	129bp
IDO1-reverse	ACAAAGTCACGCATCCTCTTAAA	
IDO2-forward	CCAGAAGGACCGTTGGAAATC	89 bp
IDO2-reverse	ACTGTCACTAGGATGAAGCCC	
PDL-1-forward	GCTTCTCAATGTGACCAGCA	211bp
PDL-1-reverse	GAGGAGGACCGTGGACACTA	
STAT3-forward	AATATAGCCGATTCTGCAAGAG	95 bp
STAT3-reverse	TGGCTTCTCAAGATACCTGCTC	
CD40-forward	TGTCATCTGTGAAAAGGTGGTC	120 bp
CD40-reverse	ACTGGAGCAGCGGTGTTATG	
CXCL12-forward	TGCATCAGTGACGGTAAACCA	118 bp
CXCL12-reverse	CACAGTTTGGAGTGTTGAGGAT	
IL-12-forward	TGGTTTGCCATCGTTTTGCTG	123 bp.
IL-12-reverse	ACAGGTGAGGTTCACTGTTTCT	
IL-1 $\beta$ -forward	ACAGCAGCACATCAACAAGAG	204 bp
IL-1 $\beta$ -reverse	ATGCGAACGTCACACACCAG	
IFN- $\gamma$ -forward	ATGAACGCTACACACTGCATC	182 bp.
IFN- $\gamma$ -reverse	CCATCCTTTTGCCAGTTCTC	
GzmB- forward	CCACTCTCGACCCTACATGG	142 bp
GzmB- reverse	GGCCCCCAAAGTGACATTTATT	
TNF $\alpha$ - forward	TTCTGTCTACTGAACTTCGGGGTGATCGGTCC	306 bp.
TNF $\alpha$ -reverse	GTATGAGATAGCAAATCGGCTGACGGTGTGG G	
IL-5-forward	TCAGGGGCTAGACATACTGAAG	168 bp.
IL-5-reverse	CCAAGGAACTCTTGCAGGTAAT	
IL-4- forward	CCCCAGCTAGTTGTCATCCTG	78 bp.
IL-4-reverse	CAAGTGATTTTTGTGCGCATCCG	
IL-13- forward	CGGCAGCATGGTATGGAGTG	85 bp.

IL-13-reverse	ATTGCAATTGGAGATGTTGGTCAG	
GATA-3-forward	GGATGTAAGTCGAGGCCCAAG	117 bp.
GATA-3-reverse	ATTGCAAAGGTAGTGCCCGGTA	
TGF- $\beta$ -forward	CTCCCGTGGCTTCTAGTGC	105 bp.
TGF- $\beta$ -reverse	GCCTTAGTTTGGACAGGATCTG	
IL-10- forward	GCTCTTACTGACTGGCATGAG	105 bp.
IL-10-reverse	CGCAGCTCTAGGAGCATGTG	
Foxp3- forward	AGCAGTGTGGACCGTAGATGA	77 bp.
Foxp3-reverse	GGCAGGGATTGGAGCACTT	
IL-21- forward	CAGGCTAAGAGCTTGTATCGTTTGG	248 bp
IL-21- reverse	AGGACTGGCTGAGTCTTGAGCAC	
RORrt- forward	CGCGGAGCAGACACACTTA	167 bp
RORrt- reverse	CCCTGGACCTCTGTTTTGGC	
CCL20- forward	TACAGACGCCTCTTCCTCCA	147 bp
CCL20- reverse	CAGCCCTTTTCACCCAGTTC	
perforin-forward	CTGCCACTCGGTCAGAATG	88 bp
perforin- reverse	CGGAGGGTAGTCACATCCAT	
FOXO3- forward	CTGGGGGAACCTGTCCTATG	210 bp
FOXO3- reverse	TCATTCTGAACGCGCATGAAG	
Eomes- forward	GGCCCCTATGGCTCAAATTCC	62 bp
Eomes- reverse	CCTGCCCTGTTTGGTGATG	
Bcl-6- forward	ATGTACAGCCATCTCCCGCT	134 bp
Bcl-6- reverse	TTAGGGACTTGCCTGGCACT	
IL-7- forward	TTCCTCCACTGATCCTTGTCT	126 bp
IL-7- reverse	AGCAGCTTCCTTTGTATCATCAC	
IL-15- forward	AGAGGCCAACTGGATAGATGT	105 bp
IL-15- reverse	AGAGCACGTTTCTTACTGTTCA	
IL-6- forward	GACAAAGCCAGAGTCCTTCAGAGAGATACAG	220 bp
IL-6- reverse	TTGGATGGTCTTGGTCCTTAGCCAC	
GAPDH- forward	AGGTCGGTGTGAACGGATTTG	98 bp
GAPDH- reverse	GGGGTCGTTGATGGCAACA	