

Supplementary Materials

Table S1. Genes of interest PCR primers.

Gene	Forward Primer (5' → 3')	Reverse Primer (5' → 3')
C6	GAGCTTGCTCCCATCACAGA	TGGCTGCGTATTCTCGGAAA
CCL2	CCAGGACTCCATAAGCCACC	AATGTGCCCAAGTCTCCGTT
CCL20	TCGCCAATGAAGCTTGTGAC	CCAATTCCATAGCAGGGAGCA
CXCL8	GCAGAGCTCACAAGCTCCTA	AAGTCATGTTGACACGGGCT
EGR1	CCTTCGGCTCCTTTCCACAT	GGGAAAAGACTCTGCGGTCA
GAPDH*	CCTCCCCGTTTCGACAGACA	GATGCGGCCAAATCCGTT
KERA	GGAGCCCTGAGTCAACTGAA	GCAGGTCAAGAAGGGTCAGG
LYZ	GCAAGACACCCAAAGCAGTT	ACCCCGAATGTACTGCGAGA
NFKB1	CACGCCAATGCCCTTTTGA	GTTACCCAAGCGGTCCAGAA
NFKBIA	AGACTCGTTCCTGCACTTGG	TCTCGGAGCTCAGGATCACA
PTGS2	CAGAAGCGAGGACCAGCTTT	CAGCCAGATTGTGGCGTACA
SUSD4	GAGACTCTTGGCCGTGATCC	AGCTGGAATCCGTCTTGGA
TNFAIP3	AAGTGAGGAAGCTTGTGGCA	AATCCTCAGTCCAATTCGGG

*Endogenous control

Table S2. qPCR quantification of GOI between baseline and complement NPSC.

Gene	Baseline	Complement	-log2(FC)	p-value
<i>C6</i>	1.008	1.574	3.776	0.072983
<i>CCL2</i>	1.008	6.480	4.794	0.036041
<i>CCL20</i>	1.014	25.02	10.97	0.000499
<i>CXCL8</i>	1.001	4.466	5.165	0.027880
<i>EGR1</i>	1.005	6.944	12.56	0.000166
<i>KERA</i>	1.002	1.271	1.011	0.496254
<i>LYZ</i>	1.010	0.054	19.30	0.000002
<i>NFKB1</i>	1.001	2.982	11.46	0.000356
<i>NFKBIA</i>	1.005	6.389	12.57	0.000165
<i>PTGS2</i>	1.009	23.73	7.108	0.007250
<i>SUSD4</i>	1.006	1.116	1.639	0.321186
<i>TNFAIP3</i>	1.005	5.478	7.444	0.005741

Table S3. Genes of interest.

Gene	Gene Name	Function
C6	Complement component 6	Part of the MAC
CCL2	C-C motif chemokine ligand 2	Cytokine involved in chemotaxis of monocytes, basophils, memory T cells, and dendritic cells; receptors include CCR2 and CCR14
CCL20	C-C motif chemokine ligand 20	Antimicrobial cytokine; immune regulation; inflammation; chemotaxis of dendritic cells, effector lymphocytes, and memory lymphocytes; CCR6 is cognate receptor
CXCL8	C-X-C motif chemokine ligand 8 (i.e., IL-8)	Chemotactic factor; inflammation; angiogenesis; increases blood vessel permeability; receptors include CXCR1 and CXCR2
EGR1	Early growth response 1	Transcription factor for differentiation and mitogenesis genes
KERA	Keratocan	Corneal transparency and structure
LYZ	Lysozyme	Antimicrobial substance; cleaves β [1-4]glycosidic linkages between N-acetylmuramic acid and N-acetylglucosamine of peptidoglycans that make up bacterial cell walls
NFKB1	Nuclear factor kappa B subunit 1	Transcription regulator for genes involved in many biological processes; regulator of immediate viral responses; associated with inflammation
NFKBIA	NFkB inhibitor alpha (i.e., IKBA)	Inhibits NFkB function and translocation to nucleus
PTGS2	Prostaglandin-endoperoxide synthase 2 (i.e., cyclooxygenase)	Prostaglandin biosynthesis in inflammation and mitogenesis
SUSD4	Sushi domain containing 4	Membrane-bound inhibition of alternative and classical complement activation
TNFAIP3	Tumor necrosis factor alpha induced protein 3 (i.e., A20)	Inhibits NFkB function; inhibits TNF-mediated apoptosis; associated with transplant accommodation and survival

Data retrieved from NCBI Gene Database ³⁰.