

**Supplementary Table S1.** Relative expression of genes responsible for inflammation and autoimmunity in stratified human corneal epithelial cells. Cell cultures were exposed to HOS (94 mM NaCl, 24 h). Values in bold indicate statistically significant changes in gene expression following addition of 1 mM TUDCA. High positive  $\Delta C_T$  values reflect low amplification efficiency.

Gene Symbol	RefSeq*	Magnitude of Expression ( $\Delta C_T$ )	HOS+TUDCA (fold change)
<i>BCL6</i>	NM_001706	4.30	1.30
<i>C3</i>	NM_000064	7.61	1.30
<i>C3AR1</i>	NM_004054	13.87	4.57
<i>CCL2</i>	NM_002982	10.45	0.50
<i>CCL3</i>	NM_002983	16.22	3.73
<i>CCL4</i>	NM_002984	11.77	0.90
<i>CCL5</i>	NM_002985	10.94	2.45
<i>CCL7</i>	NM_006273	16.21	2.02
<i>CCL8</i>	NM_005623	14.64	1.24
<i>CCL11</i>	NM_002986	14.23	0.94
<i>CCL13</i>	NM_005408	14.87	1.45
<i>CCL16</i>	NM_004590	14.90	1.52
<i>CCL17</i>	NM_002987	10.75	1.51
<i>CCL19</i>	NM_006274	14.70	1.21
<i>CCL21</i>	NM_002989	14.70	1.18
<i>CCL22</i>	NM_002990	12.14	2.45
<i>CCL23</i>	NM_005064	14.18	0.90
<i>CCL24</i>	NM_002991	11.88	0.78
<i>CCR1</i>	NM_001295	13.93	1.51
<i>CCR2</i>	NM_001123396	11.11	0.27
<i>CCR3</i>	NM_001837	11.09	0.37
<i>CCR4</i>	NM_005508	14.64	1.10
<i>CCR7</i>	NM_001838	15.43	1.93
<i>CD14</i>	NM_000591	9.54	11.06
<i>CD40</i>	NM_001250	14.66	1.24
<i>CD40LG</i>	NM_000074	14.64	1.11
<i>CEBPB</i>	NM_005194	6.06	1.87
<i>CRP</i>	NM_000567	14.63	1.23

<i>CSF1</i>	NM_000757	8.69	1.71
<i>CXCL1</i>	NM_001511	5.40	0.68
<i>CXCL2</i>	NM_002089	3.73	0.74
<i>CXCL3</i>	NM_002090	13.06	0.50
<i>CXCL5</i>	NM_002994	13.72	0.58
<i>CXCL6</i>	NM_002993	9.60	0.53
<b><i>CXCL8</i></b>	<b>NM_000584</b>	<b>1.51</b>	<b>0.31</b>
<i>CXCL9</i>	NM_002416	11.14	3.04
<i>CXCL10</i>	NM_001565	7.18	1.75
<i>CXCR1</i>	NM_000634	14.52	3.75
<i>CXCR2</i>	NM_001557	14.52	2.47
<i>CXCR4</i>	NM_003467	11.91	0.24
<i>FASLG</i>	NM_000639	13.57	0.59
<i>FOS</i>	NM_005252	7.30	0.22
<i>IFNG</i>	NM_000619	11.38	0.14
<i>IL1A</i>	NM_000575	2.40	0.95
<i>IL1B</i>	NM_000576	2.33	0.71
<i>IL1R1</i>	NM_000877	10.51	1.75
<i>IL1RAP</i>	NM_002182	6.45	0.95
<i>IL1RN</i>	NM_000577	1.22	1.15
<b><i>IL5</i></b>	<b>NM_000879</b>	<b>9.44</b>	<b>0.10</b>
<i>IL6</i>	NM_000600	5.72	0.25
<i>IL6R</i>	NM_000565	11.78	1.17
<i>IL9</i>	NM_000590	11.88	0.27
<i>IL10</i>	NM_000572	12.05	0.17
<i>IL10RB</i>	NM_000628	7.20	3.29
<i>IL15</i>	NM_000585	5.80	2.92
<i>IL17A</i>	NM_002190	14.64	1.31
<i>IL18</i>	NM_001562	0.30	0.85
<i>IL22</i>	NM_020525	12.86	0.26
<i>IL23A</i>	NM_016584	11.16	2.25
<i>IL23R</i>	NM_144701	16.26	2.77
<i>ITGB2</i>	NM_000211	11.47	1.39
<i>KNG1</i>	NM_000893	13.71	0.71

<i>LTA</i>	NM_000595	14.97	1.31
<i>LTB</i>	NM_002341	7.86	0.86
<i>LY96</i>	NM_015364	8.37	3.82
<i>MYD88</i>	NM_002468	3.38	1.74
<i>NFKB1</i>	NM_003998	7.10	1.46
<i>NOS2</i>	NM_000625	9.37	0.98
<i>NR3C1</i>	NM_000176	3.66	2.00
<i>PTGS2</i>	NM_000963	2.89	0.21
<i>RIPK2</i>	NM_003821	3.39	1.09
<i>SELE</i>	NM_000450	11.39	0.35
<i>TIRAP</i>	NM_001039661	11.40	2.06
<i>TLR1</i>	NM_003263	11.58	1.53
<i>TLR2</i>	NM_003264	10.23	2.70
<i>TLR3</i>	NM_003265	8.53	1.10
<i>TLR4</i>	NM_138554	13.15	1.83
<i>TLR5</i>	NM_003268	8.48	1.81
<i>TLR6</i>	NM_006068	7.59	1.16
<i>TLR7</i>	NM_016562	13.52	0.49
<i>TLR9</i>	NM_017442	14.51	1.25
<i>TNF</i>	NM_000594	7.32	0.62
<i>TNFSF14</i>	NM_003807	13.15	3.59
<i>TOLLIP</i>	NM_019009	8.25	2.00

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\*Reference sequence database at NCBI (<https://www.ncbi.nlm.nih.gov/refseq/>).