

Appendix 1: DEGs

Gene	logFC	adj. P. Value	AveExpr	t	P. Value	B
AQP8	-2.177573 517	4.23E-09	4.769284 76	-7.779646 082	9.66E-13	18.489929 54
CLDN8	-1.710949 62	3.34E-05	3.659814 26	-5.193304 076	6.43E-07	5.7400013 1
SLC26A2	-1.512273 147	2.12E-05	5.247508 03	-5.321090 991	3.57E-07	6.2958422 19
CWH43	-1.486427 844	1.20E-06	4.783615 282	-6.159355 894	6.05E-09	10.158034 82
BEST2	-1.389909 648	1.12E-07	4.264565 95	-6.749137 816	2.82E-10	13.074695 46
CA2	-1.367057 235	4.59E-06	7.203591 28	-5.768875 894	4.22E-08	8.3142845 05
HMGCS2	-1.322601 031	5.82E-08	4.411589 002	-6.984462 927	7.98E-11	14.278323 14
MS4A12	-1.235831 089	8.25E-05	5.993604 341	-4.907273 772	2.32E-06	4.5303063 89
FAM55D	-1.220567 727	3.50E-05	6.368466 431	-5.178716 719	6.87E-07	5.6771436 41
LOC3890 23	-1.198659 617	7.90E-06	3.007999 956	-5.607273 294	9.23E-08	7.5735318 26
PDE6A	-1.178673 904	1.01E-07	3.592495 574	-6.785853 701	2.32E-10	13.261074 31
CA1	-1.154649 474	6.68E-06	5.311362 458	-5.656387 863	7.29E-08	7.7972283 4
UGT2B17	-1.114714 04	0.009789 799	7.395091 178	-3.202812 845	0.001652 764	-1.551237 432
SLC16A9	-1.110648 372	1.34E-06	3.834472 797	-6.129084 348	7.05E-09	10.012484 86
PCK1	-1.011498 161	0.003551 327	4.278069 192	-3.601178 29	0.000426 338	-0.318387 779
SERPINA 3	1.0186011 06	1.09E-07	2.613233 599	6.7590559 94	2.68E-10	13.124989 97
CXCL6	1.0349432 51	7.28E-06	3.026417 724	5.6300133 55	8.27E-08	7.6769460 4
AQP9	1.0916318 94	0.000408 975	3.352588 038	4.3846277 44	2.14E-05	2.4507252 62
MMP1	1.1127911 45	4.68E-06	3.925584 341	5.7625474 68	4.35E-08	8.2850232 14
MME	1.1870621 98	2.22E-08	2.765631 843	7.2241663 03	2.16E-11	15.525521 77

TNIP3	1. 2048401 63	0. 000791 71	3. 487058 392	4. 1570453 41	5. 32E-05	1. 6014767 87
IDO1	1. 2723808 67	2. 73E-05	3. 901946 083	5. 2489029 72	4. 98E-07	5. 9807007 75
CXCL9	1. 3465611 46	4. 80E-06	5. 402396 264	5. 7532845 63	4. 56E-08	8. 2422303 12
VNN1	1. 3490287 87	1. 29E-08	3. 904729 775	7. 4365782 12	6. 66E-12	16. 647417 01
LCN2	1. 3491632 05	7. 06E-06	6. 762342 276	5. 6417409 86	7. 82E-08	7. 7303855 59
SLC6A14	1. 3833436 38	2. 86E-05	3. 891679 825	5. 2350786 16	5. 31E-07	5. 9206869 31
DUOX2	1. 4329694 88	1. 85E-05	5. 247312 055	5. 3581940 08	3. 00E-07	6. 4589582 38
CXCL1	1. 5115050 8	6. 25E-05	4. 775943 757	4. 9951206 51	1. 57E-06	4. 8966524 44
REG3A	1. 5180261 92	2. 04E-05	4. 936190 264	5. 3352547 57	3. 34E-07	6. 3580195 71
DEFB4A	1. 5827109 11	0. 000690 21	4. 037556 497	4. 2039052 17	4. 42E-05	1. 7734328 56
S100A8	1. 5832713 76	3. 97E-05	5. 412933 691	5. 1379700 2	8. 27E-07	5. 5022166 38
REG1A	1. 6530423 45	0. 000169 049	6. 420316 062	4. 6762108 25	6. 33E-06	3. 5893842 3
REG1B	1. 6794348 89	9. 60E-05	4. 524003 927	4. 8634846 67	2. 81E-06	4. 3494461 72
MMP3	1. 7332214 83	5. 56E-06	3. 859556 161	5. 7146810 52	5. 50E-08	8. 0643618 95
DEFA5	1. 8184207 69	4. 86E-05	5. 918113 025	5. 0719454 92	1. 11E-06	5. 2208282 54
DEFA6	1. 8563830 29	4. 67E-05	6. 398403 864	5. 0861662 79	1. 05E-06	5. 2812191 69