

Differential Expression Analysis: 2.363 low-expressed genes and 287 high-expre

gene_name	gene_id	gene_biotype	log2FoldChange
EDDM3A	ENSG00000181562	protein_coding	-10.11009701
SEMG1	ENSG00000124233	protein_coding	-9.767394766
EDDM3B	ENSG00000181552	protein_coding	-9.715328144
SEMG2	ENSG00000124157	protein_coding	-9.528343781
AQP2	ENSG00000167580	protein_coding	-9.3209732
PAEP	ENSG00000122133	protein_coding	-9.282709765
PATE4	ENSG00000237353	protein_coding	-9.231914403
TMEM114	ENSG00000232258	protein_coding	-9.103129357
DEFB131A	ENSG00000186146	protein_coding	-8.967078595
CRISP1	ENSG00000124812	protein_coding	-8.772469396
PATE1	ENSG00000171053	protein_coding	-8.579052958
CLDN2	ENSG00000165376	protein_coding	-7.95133202
POU3F3	ENSG00000198914	protein_coding	-7.881854826
SCGB1D4	ENSG00000197745	protein_coding	-7.652651415
SPINK2	ENSG00000128040	protein_coding	-7.45630499
PIP	ENSG00000159763	protein_coding	-7.391005432
GRXCR1	ENSG00000215203	protein_coding	-7.35765617
EMX2	ENSG00000170370	protein_coding	-6.827404938
SERPINA5	ENSG00000188488	protein_coding	-6.820071881
SULT2A1	ENSG00000105398	protein_coding	-6.656379488
LHX1	ENSG00000273706	protein_coding	-6.392395268
SLC13A2	ENSG00000007216	protein_coding	-6.344196041
HOXB8	ENSG00000120068	protein_coding	-6.301418855
MFSD2A	ENSG00000168389	protein_coding	-6.007381998
PATE3	ENSG00000236027	protein_coding	-5.988253199
SIM1	ENSG00000112246	protein_coding	-5.896323251
LCN1	ENSG00000160349	protein_coding	-5.882851534
UGT2B7	ENSG00000171234	protein_coding	-5.673111612
SPINK13	ENSG00000214510	protein_coding	-5.607469751
ANXA13	ENSG00000104537	protein_coding	-5.559582893
CES5A	ENSG00000159398	protein_coding	-5.535781233
SPINT3	ENSG00000101446	protein_coding	-5.480492295
PATE2	ENSG00000196844	protein_coding	-5.47958818
KCNJ16	ENSG00000153822	protein_coding	-5.333717625
MCF2	ENSG00000101977	protein_coding	-5.315010941
OPRPN	ENSG00000171199	protein_coding	-5.247990665
DEFB129	ENSG00000125903	protein_coding	-5.218226768
FAM83A	ENSG00000147689	protein_coding	-5.129211223
KRT24	ENSG00000167916	protein_coding	-5.096650833
ACSL6	ENSG00000164398	protein_coding	-5.045341526
CDX4	ENSG00000131264	protein_coding	-5.023441157
MUC6	ENSG00000184956	protein_coding	-5.00719775
HS3ST5	ENSG00000249853	protein_coding	-4.982882783
WFDC9	ENSG00000180205	protein_coding	-4.953259536
WNT9B	ENSG00000158955	protein_coding	-4.938283125
SLCO4C1	ENSG00000173930	protein_coding	-4.850375153
OR5AU1	ENSG00000169327	protein_coding	-4.789771742
MGAM	ENSG00000257335	protein_coding	-4.767172844
SLC26A3	ENSG00000091138	protein_coding	-4.765920173
PNMT	ENSG00000141744	protein_coding	-4.711131279
NPFFR2	ENSG00000056291	protein_coding	-4.709688066
HOXB6	ENSG00000108511	protein_coding	-4.633011641
CYP19A1	ENSG00000137869	protein_coding	-4.632650366
PRSS1	ENSG00000204983	protein_coding	-4.604559828
SLC28A3	ENSG00000197506	protein_coding	-4.490452048
CA2	ENSG00000104267	protein_coding	-4.487043176

STAC2	ENSG00000141750	protein_coding	-4.463364219
PIK3C2G	ENSG00000139144	protein_coding	-4.42262599
SMR3B	ENSG00000171201	protein_coding	-4.417607703
PADI3	ENSG00000142619	protein_coding	-4.362955789
CRTAC1	ENSG00000095713	protein_coding	-4.337724458
GPX6	ENSG00000198704	protein_coding	-4.33510571
ATP13A4	ENSG00000127249	protein_coding	-4.303601998
CYP4F8	ENSG00000186526	protein_coding	-4.296236304
KLHL14	ENSG00000197705	protein_coding	-4.292959374
RAD21L1	ENSG00000244588	protein_coding	-4.228040939
SLC46A2	ENSG00000119457	protein_coding	-4.168732896
FUT3	ENSG00000171124	protein_coding	-4.15761276
PAX2	ENSG00000075891	protein_coding	-4.134796977
RNASE12	ENSG00000258436	protein_coding	-4.128349829
CLPSL1	ENSG00000204140	protein_coding	-4.040588898
TFAP2B	ENSG00000008196	protein_coding	-4.012828346
AKR1B1	ENSG00000085662	protein_coding	-3.920281531
SLC39A2	ENSG00000165794	protein_coding	-3.894237035
PLCZ1	ENSG00000139151	protein_coding	-3.851759101
SLC16A12	ENSG00000152779	protein_coding	-3.808819581
HOXB9	ENSG00000170689	protein_coding	-3.791843765
CYSLTR2	ENSG00000152207	protein_coding	-3.763704415
CDH16	ENSG00000166589	protein_coding	-3.751714398
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THRSP	ENSG00000151365	protein_coding	-3.712339936
C10orf99	ENSG00000188373	protein_coding	-3.65775326
ADCY8	ENSG00000155897	protein_coding	-3.656797159
GPR149	ENSG00000174948	protein_coding	-3.646297426
SLPI	ENSG00000124107	protein_coding	-3.622202463
HSPA6	ENSG00000173110	protein_coding	-3.590306877
HOXB5	ENSG00000120075	protein_coding	-3.56186064
KCP	ENSG00000135253	protein_coding	-3.538044295
CCDC198	ENSG00000100557	protein_coding	-3.526056059
RASL10B	ENSG00000270885	protein_coding	-3.517314084
ATP6V1G3	ENSG00000151418	protein_coding	-3.511744005
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RHEX	ENSG00000263961	protein_coding	-3.416977741
NDRG4	ENSG00000103034	protein_coding	-3.399540056
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GSTM1	ENSG00000134184	protein_coding	-3.387100254
PON3	ENSG00000105852	protein_coding	-3.371106884
LCN8	ENSG00000204001	protein_coding	-3.367635232
TNMD	ENSG00000000005	protein_coding	-3.335402029
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SPRR3	ENSG00000163209	protein_coding	-3.305146756
LYZL1	ENSG00000120563	protein_coding	-3.30491386
LY6D	ENSG00000167656	protein_coding	-3.29467944
CAPZA3	ENSG00000177938	protein_coding	-3.285710469
KCNH5	ENSG00000140015	protein_coding	-3.274675603
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IL19	ENSG00000142224	protein_coding	-3.253636611
TRPM5	ENSG00000070985	protein_coding	-3.232161967
PAX8	ENSG00000125618	protein_coding	-3.212414111
SLC34A2	ENSG00000157765	protein_coding	-3.206549932
ADTRP	ENSG00000111863	protein_coding	-3.194483405
MUC21	ENSG00000204544	protein_coding	-3.180636261
LCE1C	ENSG00000197084	protein_coding	-3.180279315
KCNJ5	ENSG00000120457	protein_coding	-3.161354172

MRO	ENSG00000134042	protein_coding	-3.143774442
DCAF12L1	ENSG00000198889	protein_coding	-3.121491442
RASAL1	ENSG00000111344	protein_coding	-3.120549818
SNAP25	ENSG00000132639	protein_coding	-3.108540922
CABS1	ENSG00000145309	protein_coding	-3.106244709
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PTGES	ENSG00000148344	protein_coding	-3.087222627
CLPSL2	ENSG00000196748	protein_coding	-3.08383232
KIRREL3	ENSG00000149571	protein_coding	-3.068793655
TMEM171	ENSG00000157111	protein_coding	-3.068508771
DMRT2	ENSG00000173253	protein_coding	-3.064303424
PDK4	ENSG00000004799	protein_coding	-3.061796678
PTGS2	ENSG00000073756	protein_coding	-3.060776152
ADGRD2	ENSG00000180264	protein_coding	-3.048154694
FAM163B	ENSG00000196990	protein_coding	-3.036697386
CLCA2	ENSG00000137975	protein_coding	-3.028952926
KRT13	ENSG00000171401	protein_coding	-3.014508109
ELSPBP1	ENSG00000169393	protein_coding	-2.998589815
TMEM213	ENSG00000214128	protein_coding	-2.985353154
ATP10B	ENSG00000118322	protein_coding	-2.969536392
FAM167A	ENSG00000154319	protein_coding	-2.948234356
NEFM	ENSG00000104722	protein_coding	-2.933510319
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ANO1	ENSG00000131620	protein_coding	-2.911862525
FAM83C	ENSG00000125998	protein_coding	-2.900781045
DUOXA2	ENSG00000140274	protein_coding	-2.900143506
WFDC8	ENSG00000158901	protein_coding	-2.890404657
SMR3A	ENSG00000109208	protein_coding	-2.890177033
REG3G	ENSG00000143954	protein_coding	-2.876511502
ABCG2	ENSG00000118777	protein_coding	-2.855022043
EPPIN	ENSG00000101448	protein_coding	-2.853493217
KCNJ1	ENSG00000151704	protein_coding	-2.848592147
LIPG	ENSG00000101670	protein_coding	-2.846215216
ARC	ENSG00000198576	protein_coding	-2.836226149
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PLAAT1	ENSG00000127252	protein_coding	-2.832001409
PRR35	ENSG00000161992	protein_coding	-2.818128399
SFRP5	ENSG00000120057	protein_coding	-2.814046038
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KCNS1	ENSG00000124134	protein_coding	-2.789358152
TMEM196	ENSG00000173452	protein_coding	-2.760611053
SLC2A9	ENSG00000109667	protein_coding	-2.744319149
ITLN1	ENSG00000179914	protein_coding	-2.734443262
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ROS1	ENSG00000047936	protein_coding	-2.727520549
MUC15	ENSG00000169550	protein_coding	-2.716786979
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ATP1A4	ENSG00000132681	protein_coding	-2.704594739
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TGM4	ENSG00000163810	protein_coding	-2.659338004

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OPCML	ENSG00000183715	protein_coding	-2.649707571
HSD17B13	ENSG00000170509	protein_coding	-2.638801355
COLEC10	ENSG00000184374	protein_coding	-2.636941582
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PRDM16	ENSG00000142611	protein_coding	-2.633417414
CLU	ENSG00000120885	protein_coding	-2.627976958
DUOX2	ENSG00000140279	protein_coding	-2.625617097
PAQR8	ENSG00000170915	protein_coding	-2.616673733
CLDN19	ENSG00000164007	protein_coding	-2.616113217
SLC18A2	ENSG00000165646	protein_coding	-2.604942607
ACTC1	ENSG00000159251	protein_coding	-2.602829154
AL163195	ENSG00000259060	protein_coding	-2.599583835
HOXB7	ENSG00000260027	protein_coding	-2.590367726
MYH6	ENSG00000197616	protein_coding	-2.585967834
GKN1	ENSG00000169605	protein_coding	-2.582011242
C21orf62	ENSG00000205929	protein_coding	-2.570298156
GPRC6A	ENSG00000173612	protein_coding	-2.564551513
PTGS1	ENSG00000095303	protein_coding	-2.560127808
GPX2	ENSG00000176153	protein_coding	-2.559623535
PLA2G3	ENSG00000100078	protein_coding	-2.551892175
CYP4F22	ENSG00000171954	protein_coding	-2.547482582
ADAMTS1	ENSG00000140873	protein_coding	-2.541729277
OVCH2	ENSG00000183378	protein_coding	-2.538868124
GNAO1	ENSG00000087258	protein_coding	-2.537708313
DSG4	ENSG00000175065	protein_coding	-2.537425189
TMEM132	ENSG00000181234	protein_coding	-2.53543518
GAS2L2	ENSG00000270765	protein_coding	-2.532401498
CLCA4	ENSG00000016602	protein_coding	-2.530765264
DCC	ENSG00000187323	protein_coding	-2.520757671
ATP2B3	ENSG00000067842	protein_coding	-2.517402141
ATP6V0A4	ENSG00000105929	protein_coding	-2.51314096
SCGB1A1	ENSG00000149021	protein_coding	-2.510464678
KRT27	ENSG00000171446	protein_coding	-2.497044204
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GCNT4	ENSG00000176928	protein_coding	-2.470876633
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KRT16	ENSG00000186832	protein_coding	-2.451594779
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DUSP2	ENSG00000158050	protein_coding	-2.41697583
VWA5B2	ENSG00000145198	protein_coding	-2.409941416
FUT6	ENSG00000156413	protein_coding	-2.404445486
C2orf88	ENSG00000187699	protein_coding	-2.399405498
KY	ENSG00000174611	protein_coding	-2.39749599
GLRA4	ENSG00000188828	protein_coding	-2.386489483
SYT10	ENSG00000110975	protein_coding	-2.385362851
DEFB132	ENSG00000186458	protein_coding	-2.385184903
CRNN	ENSG00000143536	protein_coding	-2.382760977

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WFDC2	ENSG00000101443	protein_coding	-2.339642631
KRT222	ENSG00000213424	protein_coding	-2.336133311
ASTL	ENSG00000188886	protein_coding	-2.334504027
GSTM3	ENSG00000134202	protein_coding	-2.334412618
SBSPON	ENSG00000164764	protein_coding	-2.332604006
CDH8	ENSG00000150394	protein_coding	-2.329684716
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LYVE1	ENSG00000133800	protein_coding	-2.324921202
MATN4	ENSG00000124159	protein_coding	-2.323544058
FOLR1	ENSG00000110195	protein_coding	-2.322715269
WFDC10A	ENSG00000180305	protein_coding	-2.316391141
CCDC27	ENSG00000162592	protein_coding	-2.314886622
KRT3	ENSG00000186442	protein_coding	-2.311755097
CDO1	ENSG00000129596	protein_coding	-2.310911192
CIDEC	ENSG00000187288	protein_coding	-2.293608412
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ATP4B	ENSG00000186009	protein_coding	-2.291951119
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MEI4	ENSG00000269964	protein_coding	-2.284285991
SCN11A	ENSG00000168356	protein_coding	-2.282953462
FRMD3	ENSG00000172159	protein_coding	-2.280846717
TRIM9	ENSG00000100505	protein_coding	-2.277724645
CRYGD	ENSG00000118231	protein_coding	-2.277204016
HCAR3	ENSG00000255398	protein_coding	-2.275822042
PDE1C	ENSG00000154678	protein_coding	-2.275142283
SCARA5	ENSG00000168079	protein_coding	-2.271763536
KBTBD13	ENSG00000234438	protein_coding	-2.266271015
INSYN2B	ENSG00000204767	protein_coding	-2.264506281
EVX2	ENSG00000174279	protein_coding	-2.260179252
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IGSF1	ENSG00000147255	protein_coding	-2.25759205
PCP4L1	ENSG00000248485	protein_coding	-2.256333758
GATA3	ENSG00000107485	protein_coding	-2.254764491
DPP6	ENSG00000130226	protein_coding	-2.254031037
AQP5	ENSG00000161798	protein_coding	-2.249731651
BMP5	ENSG00000112175	protein_coding	-2.247478105
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PLAAT5	ENSG00000168004	protein_coding	-2.239220648
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FAM110C	ENSG00000184731	protein_coding	-2.233121786
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LMO3	ENSG00000048540	protein_coding	-2.22452311
SCGB3A1	ENSG00000161055	protein_coding	-2.223850129
IVL	ENSG00000163207	protein_coding	-2.220951182
ARSF	ENSG00000062096	protein_coding	-2.220515156

C11orf87	ENSG00000185742	protein_coding	-2.21981067
CAPN6	ENSG00000077274	protein_coding	-2.213969608
LRRTM3	ENSG00000198739	protein_coding	-2.213824515
IL1RL1	ENSG00000115602	protein_coding	-2.213546532
CYP4B1	ENSG00000142973	protein_coding	-2.210904639
PENK	ENSG00000181195	protein_coding	-2.209615096
EPGN	ENSG00000182585	protein_coding	-2.203881665
DUOXA1	ENSG00000140254	protein_coding	-2.202371818
DCHS2	ENSG00000197410	protein_coding	-2.196115005
MGAT4C	ENSG00000182050	protein_coding	-2.193341956
SLC6A2	ENSG00000103546	protein_coding	-2.193244322
PLPPR5	ENSG00000117598	protein_coding	-2.19251812
CHP2	ENSG00000166869	protein_coding	-2.19091148
C10orf82	ENSG00000165863	protein_coding	-2.189296577
DUOX1	ENSG00000137857	protein_coding	-2.184419207
FOXI1	ENSG00000168269	protein_coding	-2.183596971
TMEM252	ENSG00000181778	protein_coding	-2.183477705
KRT4	ENSG00000170477	protein_coding	-2.173509505
FAM163A	ENSG00000143340	protein_coding	-2.163090266
SLC31A2	ENSG00000136867	protein_coding	-2.163048076
FOXQ1	ENSG00000164379	protein_coding	-2.161754639
CASP14	ENSG00000105141	protein_coding	-2.156898919
GJB4	ENSG00000189433	protein_coding	-2.154170405
GLIS3	ENSG00000107249	protein_coding	-2.151109114
S100A14	ENSG00000189334	protein_coding	-2.146860527
BTN1A1	ENSG00000124557	protein_coding	-2.146598119
EPHB1	ENSG00000154928	protein_coding	-2.141309541
ASPA	ENSG00000108381	protein_coding	-2.138588767
SH2D1B	ENSG00000198574	protein_coding	-2.135089694
CPB2	ENSG00000080618	protein_coding	-2.12124651
LGR6	ENSG00000133067	protein_coding	-2.119783957
ATP6V0D2	ENSG00000147614	protein_coding	-2.111783155
KLHL4	ENSG00000102271	protein_coding	-2.109368188
TRIM61	ENSG00000183439	protein_coding	-2.107902486
ANGPT1	ENSG00000154188	protein_coding	-2.105351463
GSTP1	ENSG00000084207	protein_coding	-2.104205909
KCNK10	ENSG00000100433	protein_coding	-2.102110117
TGM5	ENSG00000104055	protein_coding	-2.101788009
SP6	ENSG00000189120	protein_coding	-2.099282439
LVRN	ENSG00000172901	protein_coding	-2.096953345
JPH4	ENSG00000092051	protein_coding	-2.092322811
OR7C1	ENSG00000127530	protein_coding	-2.091341544
KCNF1	ENSG00000162975	protein_coding	-2.087354309
APOBEC3C	ENSG00000244509	protein_coding	-2.086805352
C20orf202	ENSG00000215595	protein_coding	-2.084974302
CYP1A2	ENSG00000140505	protein_coding	-2.083039489
ADRA1A	ENSG00000120907	protein_coding	-2.081515393
TNFSF11	ENSG00000120659	protein_coding	-2.078287302
HOXD4	ENSG00000170166	protein_coding	-2.076118324
ZSCAN4	ENSG00000180532	protein_coding	-2.07382871
FAM83B	ENSG00000168143	protein_coding	-2.066526933
SERPINB5	ENSG00000206075	protein_coding	-2.065926813
HOXB4	ENSG00000182742	protein_coding	-2.065015232
IRX1	ENSG00000170549	protein_coding	-2.062428259
RHCG	ENSG00000140519	protein_coding	-2.06174467
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Supplementary Dataset File_2 : 363 low-expressed genes and 287 high-expressed

ssed genes was done using differential expression analysis using $|\log_2FC| > 2$ and $FDR < 0.05$.
padj

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d genes was done using differential expression analysis using $|\log_2FC| > 2$ and $FDR < 0.05$.