

Supplementary Table 4: ToppFun output for the 308 validated DE genes in ICSs twins.

Category	ID	Name	p-value	Hit Count	Hit Count	Hit in Query List
GO: Molecular Function	GO:0000977	RNA polymerase II transcription regulatory region sequence	1.28E-10	40	853	SOX10,HHEX,KLF8,FOXQ1,NKX3-2,ETV4,SOX8,HOXB3,HOXB7,HOXC10,HOXD3,HOXD9,HOXD10,HOXD13,NFIB,KLF5,PITX1,PLAG1,FOXF1,HAND2,TBX2,TBX15,TBX3,ATF5,FOS,EBF1,RUNX3,TFAP2A,TFAP2B,AR,NFE2L3,LIF,HEYL,HMGA2,EGR1,EGR3,EMX2,EN1,PRDM6,GLIS1
GO: Molecular Function	GO:0000976	transcription regulatory region sequence-specific DNA binding	5.82E-10	40	898	SOX10,HHEX,KLF8,FOXQ1,NKX3-2,ETV4,SOX8,HOXB3,HOXB7,HOXC10,HOXD3,HOXD9,HOXD10,HOXD13,NFIB,KLF5,PITX1,PLAG1,FOXF1,HAND2,TBX2,TBX15,TBX3,ATF5,FOS,EBF1,RUNX3,TFAP2A,TFAP2B,AR,NFE2L3,LIF,HEYL,HMGA2,EGR1,EGR3,EMX2,EN1,PRDM6,GLIS1
GO: Molecular Function	GO:0001228	DNA-binding transcription activator activity, RNA polymerase II	9.73E-10	28	483	SOX10,ETV4,SOX8,HOXB3,HOXB7,HOXC10,HOXD3,HOXD9,HOXD10,HOXD13,NFIB,KLF5,PITX1,PLAG1,FOXF1,HAND2,TBX2,TBX15,TBX3,ATF5,FOS,EBF1,TFAP2A,TFAP2B,AR,HEYL,HMGA2,EGR1,GLIS1
GO: Molecular Function	GO:0001216	DNA-binding transcription activator activity	1.02E-09	28	484	SOX10,ETV4,SOX8,HOXB3,HOXB7,HOXC10,HOXD3,HOXD9,HOXD10,HOXD13,NFIB,KLF5,PITX1,PLAG1,FOXF1,HAND2,TBX2,TBX15,TBX3,ATF5,FOS,EBF1,TFAP2A,TFAP2B,AR,HEYL,HMGA2,EGR1,GLIS1
GO: Molecular Function	GO:1990837	sequence-specific double-stranded DNA binding	2.77E-09	40	948	SOX10,HHEX,KLF8,FOXQ1,NKX3-2,ETV4,SOX8,HOXB3,HOXB7,HOXC10,HOXD3,HOXD9,HOXD10,HOXD13,NFIB,KLF5,PITX1,PLAG1,FOXF1,HAND2,TBX2,TBX15,TBX3,ATF5,FOS,EBF1,RUNX3,TFAP2A,TFAP2B,AR,NFE2L3,LIF,HEYL,HMGA2,EGR1,EGR3,EMX2,EN1,PRDM6,GLIS1
GO: Molecular Function	GO:0001067	regulatory region nucleic acid binding	1.08E-08	41	1036	SOX10,HHEX,KLF8,FOXQ1,NKX3-2,ETV4,SOX8,HOXB3,HOXB7,HOXC10,HOXD3,HOXD9,HOXD10,HOXD13,NFIB,KLF5,PITX1,PLAG1,FOXF1,HAND2,TBX2,TBX15,TBX3,ATF5,FOS,WNT5A,EBF1,RUNX3,TFAP2A,TFAP2B,AR,NFE2L3,LIF,HEYL,HMGA2,EGR1,EGR3,EMX2,EN1,PRDM6,GLIS1
GO: Molecular Function	GO:0003690	double-stranded DNA binding	4.46E-08	40	1048	SOX10,HHEX,KLF8,FOXQ1,NKX3-2,ETV4,SOX8,HOXB3,HOXB7,HOXC10,HOXD3,HOXD9,HOXD10,HOXD13,NFIB,KLF5,PITX1,PLAG1,FOXF1,HAND2,TBX2,TBX15,TBX3,ATF5,FOS,EBF1,RUNX3,TFAP2A,TFAP2B,AR,NFE2L3,LIF,HEYL,HMGA2,EGR1,EGR3,EMX2,EN1,PRDM6,GLIS1
GO: Molecular Function	GO:0000978	RNA polymerase II cis-regulatory region sequence-specific DNA binding	5.16E-08	28	580	SOX10,HHEX,KLF8,FOXQ1,NKX3-2,ETV4,HOXB3,HOXB7,HOXD3,HOXD13,NFIB,KLF5,PITX1,PLAG1,HAND2,TBX2,TBX15,TBX3,FOS,EBF1,TFAP2A,TFAP2B,AR,NFE2L3,HEYL,HMGA2,EMX2,EN1
GO: Molecular Function	GO:0043565	sequence-specific DNA binding	7.71E-08	43	1199	SOX10,HHEX,KLF8,FOXQ1,NKX3-2,ETV4,SOX8,HOXB3,HOXB7,HOXB8,HOXC10,HOXD3,HOXD9,HOXD10,HOXD11,HOXD13,NFIB,KLF5,PITX1,PLAG1,HOXB13,FOXF1,HAND2,TBX2,TBX15,TBX3,ATF5,FOS,EBF1,RUNX3,TFAP2A,TFAP2B,AR,NFE2L3,LIF,HEYL,HMGA2,EGR1,EGR3,EMX2,EN1,PRDM6,GLIS1
GO: Molecular Function	GO:0000987	cis-regulatory region sequence-specific DNA binding	8.48E-08	28	594	SOX10,HHEX,KLF8,FOXQ1,NKX3-2,ETV4,HOXB3,HOXB7,HOXD3,HOXD13,NFIB,KLF5,PITX1,PLAG1,HAND2,TBX2,TBX15,TBX3,FOS,EBF1,TFAP2A,TFAP2B,AR,NFE2L3,HEYL,HMGA2,EMX2,EN1
GO: Molecular Function	GO:0005102	signaling receptor binding	6.29E-07	54	1815	EPHB2,IL11,NES,EREG,PDGFB,HLA-DQA1,PENK,SYTL2,F2RL1,F7,REEP2,ITGB7,STX1B,UCN2,CMTM8,NEFM,SLC9A3R2,CCN4,BMP6,FAP,SRPX2,CADM1,PTPRD,PTPRZ1,FGF5,FAM3C,KIF5C,GNAZ,CXCL6,FERMT3,SHANK1,SEMA3C,DRD1,GPR17,DL4,WNT5A,NTRK2,L1CAM,ADAMTS5,CXCL1,EDA,OGN,ANGPTL1,AR,TGFB3,LIF,THBS4,CD9,PLPPP,CD70,CD74,RSPO1,IL6,SEMA3E
GO: Molecular Function	GO:0001227	DNA-binding transcription repressor activity, RNA polymerase II	2.07E-06	16	261	HHEX,KLF8,FOXQ1,NKX3-2,HOXD9,HOXB13,TBX2,TBX15,TBX3,TFAP2A,NFE2L3,HEYL,HMGA2,EMX2,EN1,GLIS1
GO: Molecular Function	GO:0001217	DNA-binding transcription repressor activity	2.07E-06	16	261	HHEX,KLF8,FOXQ1,NKX3-2,HOXD9,HOXB13,TBX2,TBX15,TBX3,TFAP2A,NFE2L3,HEYL,HMGA2,EMX2,EN1,GLIS1
GO: Molecular Function	GO:0005201	extracellular matrix structural constituent	2.83E-06	13	178	FGL2,ANOS1,SRPX2,FBN2,COL14A1,COL7A1,FRAS1,COL9A3,OGN,COL23A1,THBS4,PCOLCE2,PRG4
GO: Molecular Function	GO:0008201	heparin binding	1.72E-05	12	180	CCN4,ANOS1,CXCL6,CRISPLD2,FBLN7,ADAMTS5,COL23A1,EVA1C,THBS4,LIPC,PCOLCE2,RSPO1
GO: Molecular Function	GO:0000981	DNA-binding transcription factor activity, RNA polymerase II	3.29E-05	45	1615	SOX10,HHEX,KLF8,FOXQ1,NKX3-2,ETV4,SOX8,HOXB3,HOXB7,HOXB8,HOXC10,HOXD3,HOXD9,HOXD10,HOXD11,HOXD13,NFIB,KLF5,PITX1,PLAG1,HOXB13,FOXF1,HAND2,TBX2,TBX15,TBX3,ATF5,FOS,ID3,EBF1,RUNX3,TFAP2A,TFAP2B,AR,ZFPM2,NFE2L3,HEYL,HMGA2,EGR1,EGR3,ZNF396,EMX2,EN1,PRDM6,GLIS1
GO: Molecular Function	GO:0008083	growth factor activity	4.32E-05	11	167	IL11,EREG,PDGFB,BMP6,FGF5,CXCL1,OGN,TGFB3,LIF,THBS4,IL6
GO: Molecular Function	GO:0048018	receptor ligand activity	6.13E-05	20	497	IL11,EREG,PDGFB,PENK,UCN2,CMTM8,BMP6,FGF5,FAM3C,CXCL6,SEMA3C,WNT5A,CXCL1,OGN,TGFB3,LIF,THBS4,CD70,IL6,SEMA3E

GO: Molecular Function	GO:0005178	integrin binding	6.91E-05	10	146	ITGB7,CCN4,FAP,PTPRZ1,FERMT3,L1CAM,ADAMTSS,THBS4,CD9,PLPP3
GO: Molecular Function	GO:0030546	signaling receptor activator activity	7.03E-05	20	502	IL11,EREG,PDGFB,PENK,UCN2,CMTM8,BMP6,FGF5,FAM3C,CXCL6,SEMA3C,WNT5A,CXCL1,OGN,TGFB3,LIF,THBS4,CD70,IL6,SEMA3E
GO: Molecular Function	GO:0005539	glycosaminoglycan binding	8.76E-05	13	246	CCN4,ANOS1,CXCL6,CRISPLD2,FBLN7,ADAMTSS,COL23A1,EVA1C,THBS4,LIPC,HAPLN3,PCOLCE2,RSPO1
GO: Molecular Function	GO:0030545	receptor regulator activity	2.22E-04	20	547	IL11,EREG,PDGFB,PENK,UCN2,CMTM8,BMP6,FGF5,FAM3C,CXCL6,SEMA3C,WNT5A,CXCL1,OGN,TGFB3,LIF,THBS4,CD70,IL6,SEMA3E
GO: Molecular Function	GO:1901681	sulfur compound binding	3.03E-04	13	279	CCN4,ANOS1,CHST15,CXCL6,CRISPLD2,FBLN7,ADAMTSS,COL23A1,EVA1C,THBS4,LIPC,PCOLCE2,RSPO1
GO: Molecular Function	GO:0005125	cytokine activity	5.86E-04	11	225	IL11,CMTM8,BMP6,FAM3C,CXCL6,WNT5A,CXCL1,TGFB3,LIF,CD70,IL6
GO: Molecular Function	GO:0001085	RNA polymerase II transcription factor binding	6.15E-04	6	70	PITX1,TBX3,ID3,AR,ZFPM2,HCLS1
GO: Molecular Function	GO:0042577	lipid phosphatase activity	6.53E-04	3	12	EPHX2,PLPP1,PLPP3
GO: Molecular Function	GO:0042277	peptide binding	1.01E-03	16	441	EPHB2,PCSK5,HLA-DQA1,TSHR,F2RL1,HRH2,CMKLR1,TRHDE,NPR1,GPR17,NTSR1,APBA2,LGR5,MSR1,CD74,CTS8
GO: Molecular Function	GO:0009975	cyclase activity	1.10E-03	12	281	TSHR,PTGER2,CHRM3,UCN2,ADORA2B,ADRA1D,GNAZ,ADGRL2,ADGRD1,NPR1,DRD1,LGR5
GO: Molecular Function	GO:0016849	phosphorus-oxygen lyase activity	1.10E-03	12	281	TSHR,PTGER2,CHRM3,UCN2,ADORA2B,ADRA1D,GNAZ,ADGRL2,ADGRD1,NPR1,DRD1,LGR5
GO: Molecular Function	GO:0005044	scavenger receptor activity	1.14E-03	5	53	LOXL4,LOXL3,MSR1,SCARAS,PRG4
GO: Molecular Function	GO:0005518	collagen binding	1.25E-03	6	80	PDGFB,COL14A1,USH2A,THBS4,PCOLCE2,CTS8
GO: Molecular Function	GO:0042392	sphingosine-1-phosphate phosphatase activity	1.30E-03	2	4	PLPP1,PLPP3
GO: Molecular Function	GO:0004016	adenylate cyclase activity	1.52E-03	11	253	TSHR,PTGER2,CHRM3,UCN2,ADORA2B,ADRA1D,GNAZ,ADGRL2,ADGRD1,DRD1,LGR5
GO: Molecular Function	GO:0008528	G protein-coupled peptide receptor activity	1.96E-03	8	151	TSHR,F2RL1,HRH2,CMKLR1,NPR1,GPR17,NTSR1,LGR5
GO: Molecular Function	GO:0042578	phosphoric ester hydrolase activity	1.97E-03	21	700	EPHX2,EYA4,SYTL2,F2RL1,CHRM3,ELFN2,CILP2,PTPRD,PTPRZ1,CMKLR1,ALPL,DRD1,GPR17,NTRK2,DUSP15,PPP1R3C,SH2D4A,PLPP1,PLPP3,TMEM132D,PLCE1
GO: Molecular Function	GO:0004720	protein-lysine 6-oxidase activity	2.15E-03	2	5	LOXL4,LOXL3
GO: Molecular Function	GO:0016641	oxidoreductase activity, acting on the CH-NH2 group of don	2.27E-03	3	18	MAOA,LOXL4,LOXL3
GO: Molecular Function	GO:0050839	cell adhesion molecule binding	2.40E-03	17	525	ITGB7,SLC9A3R2,CCN4,FAP,CADM1,CDH20,PTPRD,PTPRZ1,NOTCH3,FERMT3,KRT18,L1CAM,ADAMTSS,THBS4,CD9,PLPP3,TACSTD2
GO: Molecular Function	GO:0001653	peptide receptor activity	2.60E-03	8	158	TSHR,F2RL1,HRH2,CMKLR1,NPR1,GPR17,NTSR1,LGR5
GO: Biological Process	GO:0009887	animal organ morphogenesis	4.14E-19	63	1240	EPHB2,TSPAN12,HHEX,EREG,EYA4,MAN2A1,PDGFB,RP56KA1,NKX3-2,ACTC1,ETV4,TSHR,SOX8,HOXB3,BMP6,HOXB7,HOXB8,ALDH1A2,FBN2,HOXD3,HOXD9,HOXD10,HOXD11,HOXD13,NFIB,DIO3,PLAG1,COL14A1,USH2A,HOXB13,FOXF1,HAND2,ALPL,TBX2,SHANK1,TBX15,COL7A1,TBX3,SEMA3C,FRAS1,DL4,SOBP,WNT5A,NTRK2,HOTTIP,ID3,ADAMTSS,SHROOM2,EDA,TFAP2A,TFAP2B,AR,ZFPM2,TGFB3,LIF,HEYL,CELSR1,HMGA2,CELSR2,EMX2,TACSTD2,TMEM100,IL6
GO: Biological Process	GO:0035295	tube development	1.31E-16	60	1276	EPHB2,TSPAN12,PCSK5,SOX10,HHEX,EREG,MAN2A1,PDGFB,NKX3-2,ETV4,SOX8,HOXB3,FAP,HOXB7,ALDH1A2,SRPX2,HOXD11,HOXD13,NFIB,KLF5,HRH2,LOXL3,HOXB13,FOXF1,NOTCH3,HAND2,TBX2,CRISPLD2,TBX3,SEMA3C,NPR1,DL4,PODXL,WNT5A,NTRK2,RGCC,VASH1,PKDCC,LGR5,EDA,TFAP2A,TFAP2B,AR,ZFPM2,COL23A1,TGFB3,LIF,HEYL,CELSR1,THBS4,HMGA2,EGR3,CLEC14A,TLR3,EMX2,EN1,TACSTD2,TMEM100,IL6,SEMA3E
GO: Biological Process	GO:0048568	embryonic organ development	6.14E-14	34	506	EPHB2,PCSK5,NES,HHEX,EYA4,PDGFB,NKX3-2,TSHR,HOXB3,HOXB7,HOXB8,ALDH1A2,FBN2,HOXD3,HOXD9,HOXD10,HOXD11,FOXF1,HAND2,TBX2,TBX15,TBX3,KRT19,SOBP,WNT5A,VASH1,PKDCC,ID3,TFAP2A,ZFPM2,TGFB3,LIF,CELSR1,EN1
GO: Biological Process	GO:0001501	skeletal system development	1.29E-13	36	582	PCSK5,NKX3-2,EXTL1,CCN4,HOXB3,BMP6,HOXB7,HOXB8,CADM1,FBN2,HOXC10,HOXD3,HOXD9,HOXD10,HOXD11,HOXD13,NFIB,PITX1,COL14A1,CMKLR1,HAND2,ALPL,TBX15,COL7A1,TBX3,WNT5A,HOTTIP,PKDCC,RUNX3,TFAP2A,TGFB3,HMGA2,ARSL,KIAA1217,HAPLN3,EN1
GO: Biological Process	GO:0035239	tube morphogenesis	1.45E-13	49	1045	EPHB2,TSPAN12,SOX10,HHEX,EREG,PDGFB,ETV4,SOX8,HOXB3,FAP,HOXB7,ALDH1A2,SRPX2,HOXD11,HOXD13,NFIB,KLF5,HOXB13,FOXF1,NOTCH3,HAND2,TBX2,TBX3,NPR1,DL4,PODXL,WNT5A,NTRK2,RGCC,VASH1,LGR5,EDA,TFAP2A,TFAP2B,AR,ZFPM2,COL23A1,LIF,CELSR1,THBS4,HMGA2,EGR3,CLEC14A,TLR3,EMX2,TACSTD2,TMEM100,IL6,SEMA3E
GO: Biological Process	GO:0035107	appendage morphogenesis	8.14E-13	20	175	PCSK5,ALDH1A2,FBN2,HOXC10,HOXD9,HOXD10,HOXD11,HOXD13,PITX1,HAND2,TBX2,TBX3,SEMA3C,FRAS1,WNT5A,HOTTIP,PKDCC,TFAP2A,TFAP2B,EN1
GO: Biological Process	GO:0035108	limb morphogenesis	8.14E-13	20	175	PCSK5,ALDH1A2,FBN2,HOXC10,HOXD9,HOXD10,HOXD11,HOXD13,PITX1,HAND2,TBX2,TBX3,SEMA3C,FRAS1,WNT5A,HOTTIP,PKDCC,TFAP2A,TFAP2B,EN1
GO: Biological Process	GO:0009790	embryo development	9.77E-13	53	1262	EPHB2,PCSK5,SOX10,NES,HHEX,EYA4,MAN2A1,PDGFB,NKX3-2,TSHR,SOX8,HOXB3,HOXB7,HOXB8,ALDH1A2,FBN2,HOXC10,HOXD3,HOXD9,HOXD10,HOXD11,HOXD13,STMN3,PITX1,LOXL3,FOXF1,HAND2,TBX2,TBX15,COL7A1,TBX3,SEMA3C,FRAS1,DL4,KRT19,SOBP,WNT5A,VASH1,APBA2,PKDCC,ID3,TFAP2A,AR,ZFPM2,TGFB3,LIF,CELSR1,HMGA2,PLPP3,KIAA1217,EN1,TMEM100,RAI2

GO: Biological Process	GO:0001655	urogenital system development	7.62E-12	27	380	EPHB2,PCSK5,PDGFB,SOX8,BMP6,HOXB7,ALDH1A2,HOXD11,HOXD13,PLAG1,HOXB13,FOXF1,NOTCH3,FRAS1,PODXL,WNT5A,ID3,LGR5,TFAP2A,TFAP2B,AR,LIF,HEYL,EGR1,EMX2,TACSTD2,PLCE1
GO: Biological Process	GO:0060429	epithelium development	1.39E-11	56	1483	SOX10,HHEX,EREG,FOXQ1,PDGFB,NKX3-2,ETV4,SOX8,F2RL1,BMP6,HOXB7,ALDH1A2,HOXD11,HOXD13,NFIB,KLF5,HRH2,LOXL3,USH2A,HOXB13,FOXF1,HAND2,TBX2,TBX3,SEMA3C,FRAS1,KRT18,DL4,KRT19,PODXL,WNT5A,ID3,RUNX3,LGR5,EDA,TFAP2A,TFAP2B,AR,KRT23,COL23A1,LIF,HEYL,CELSR1,HMGA2,CELSR2,KRTAP1-5,KRTAP1-1,ROSI,EN1,CTSB,TACSTD2,TMEM100,KRT38,IL6,KRT36,SEMA3E
GO: Biological Process	GO:0060173	limb development	1.43E-11	20	204	PCSK5,ALDH1A2,FBN2,HOXC10,HOXD9,HOXD10,HOXD11,HOXD13,PITX1,HAND2,TBX2,TBX3,SEMA3C,FRAS1,WNT5A,HOTTIP,PKDCC,TFAP2A,TFAP2B,EN1
GO: Biological Process	GO:0048736	appendage development	1.43E-11	20	204	PCSK5,ALDH1A2,FBN2,HOXC10,HOXD9,HOXD10,HOXD11,HOXD13,PITX1,HAND2,TBX2,TBX3,SEMA3C,FRAS1,WNT5A,HOTTIP,PKDCC,TFAP2A,TFAP2B,EN1
GO: Biological Process	GO:0048646	anatomical structure formation involved in morphogenesis	1.94E-11	53	1365	EPHB2,TSPAN12,HHEX,EREG,NKX3-2,ACTC1,SOX8,HOXB3,FAP,ALDH1A2,SRPX2,FBN2,HOXD11,NFIB,KLF5,UGT8,HOXB13,FOXF1,NOTCH3,HAND2,TBX2,COL7A1,TBX3,SEMA3C,NPR1,DL4,KRT19,PODXL,WNT5A,RGCC,VASH1,EDA,TFAP2A,TFAP2B,AR,ZFPM2,COL23A1,TGFB3,LIF,HEYL,CELSR1,THBS4,HMGA2,CD9,PLPP3,EGR3,CLEC14A,CSR2,TLR3,KNDC1,TMEM100,IL6,SEMA3E
GO: Biological Process	GO:0009952	anterior/posterior pattern specification	3.00E-11	21	237	PCSK5,HHEX,HOXB3,HOXB7,HOXB8,ALDH1A2,HOXC10,HOXD3,HOXD9,HOXD10,HOXD11,HOXD13,FOXF1,TBX3,SEMA3C,WNT5A,HEYL,CELSR1,CELSR2,EMX2,EN1
GO: Biological Process	GO:0048598	embryonic morphogenesis	5.39E-11	35	681	EPHB2,HHEX,EYA4,NKX3-2,TSHR,SOX8,HOXB3,HOXB7,HOXB8,ALDH1A2,FBN2,HOXC10,HOXD3,HOXD9,HOXD10,HOXD11,HOXD13,PITX1,FOXF1,HAND2,TBX2,TBX15,COL7A1,TBX3,FRAS1,DL4,SOBP,WNT5A,TFAP2A,AR,TGFB3,CELSR1,HMGA2,PLPP3,EN1
GO: Biological Process	GO:0022008	neurogenesis	6.55E-11	63	1866	EPHB2,SOX10,MAN2A1,PSD,PDGFB,PENK,ETV4,TSHR,SOX8,PRAG1,STX1B,GFRA2,NEFM,HOXB3,BMP6,ANOS1,ALDH1A2,HOXC10,PTPRD,HOXD3,HOXD9,HOXD10,PTPR21,NFIB,STMN3,NTM,DIO3,UGT8,CHRD1,FGF5,PLAG1,KIF5C,USH2A,NOTCH3,HAND2,SHANK1,GPM6B,SEMA3C,DRD1,GPR17,ATF5,DL4,WNT5A,NTRK2,L1CAM,ID3,DUSP15,RUNX3,TFAP2A,LIF,HEYL,CELSR1,THBS4,HMGA2,CD9,CELSR2,PLPP3,KNDC1,EMX2,EN1,PRDM6,IL6,SEMA3E
GO: Biological Process	GO:0061138	morphogenesis of a branching epithelium	9.95E-11	20	227	SOX10,HHEX,PDGFB,ETV4,SOX8,HOXB7,HOXD11,HOXD13,HOXB13,FOXF1,TBX3,SEMA3C,DL4,WNT5A,AR,CELSR1,HMGA2,TACSTD2,IL6,SEMA3E
GO: Biological Process	GO:0048729	tissue morphogenesis	1.60E-10	39	860	SOX10,HHEX,FOXQ1,PDGFB,ACTC1,ETV4,SOX8,HOXB7,ALDH1A2,HOXD11,HOXD13,COL14A1,HOXB13,FOXF1,HAND2,TBX2,COL7A1,TBX3,SEMA3C,FRAS1,DL4,PODXL,WNT5A,RUNX3,LGR5,TFAP2A,AR,ZFPM2,TGFB3,LIF,HEYL,CELSR1,HMGA2,CELSR2,PLPP3,TACSTD2,TMEM100,IL6,SEMA3E
GO: Biological Process	GO:0042127	regulation of cell population proliferation	2.17E-10	63	1921	IL11,SOX10,NEF,HHEX,EREG,PDGFB,HLA-DQA1,ETV4,TSHR,SOX8,PTGER2,ADORA2B,CCN4,BMP6,FAP,ADRA1D,ALDH1A2,HOXC10,HOXD13,PTPR21,NFIB,KLF5,FGF5,PLAG1,FOXF1,NOTCH3,HAND2,TBX2,TBX3,NPR1,ATF5,DL4,WNT5A,NTRK2,RGCC,VASH1,WFDC1,DUSP15,RUNX3,LGR5,CXCL1,OGN,TFAP2A,TFAP2B,AR,ZFPM2,TGFB3,MST1R,LIF,THBS4,HMGA2,CD9,PLPP1,EGR1,EGR3,CD70,CD74,TACSTD2,PRG4,RSP01,IL6,MAB2111,HCLS1
GO: Biological Process	GO:0001568	blood vessel development	4.09E-10	38	849	EPHB2,TSPAN12,PCSK5,HHEX,EREG,PDGFB,HOXB3,FAP,ALDH1A2,SRPX2,KLF5,HOXB13,FOXF1,NOTCH3,HAND2,TBX2,TBX3,SEMA3C,NPR1,DL4,WNT5A,NTRK2,RGCC,VASH1,TFAP2B,ZFPM2,COL23A1,LIF,THBS4,HMGA2,PLPP3,EGR1,EGR3,CLEC14A,TLR3,TMEM100,IL6,SEMA3E
GO: Biological Process	GO:0001763	morphogenesis of a branching structure	4.18E-10	20	246	SOX10,HHEX,PDGFB,ETV4,SOX8,HOXB7,HOXD11,HOXD13,HOXB13,FOXF1,TBX3,SEMA3C,DL4,WNT5A,AR,CELSR1,HMGA2,TACSTD2,IL6,SEMA3E
GO: Biological Process	GO:0048562	embryonic organ morphogenesis	5.35E-10	23	334	EPHB2,EYA4,NKX3-2,TSHR,HOXB3,HOXB7,HOXB8,ALDH1A2,FBN2,HOXD3,HOXD9,HOXD10,HOXD11,FOXF1,HAND2,TBX2,TBX15,TBX3,SOBP,WNT5A,TFAP2A,TGFB3,CELSR1
GO: Biological Process	GO:0007389	pattern specification process	5.64E-10	28	493	PCSK5,HHEX,NKX3-2,HOXB3,HOXB7,HOXB8,ALDH1A2,HOXC10,HOXD3,HOXD9,HOXD10,HOXD11,HOXD13,FOXF1,HAND2,TBX2,TBX3,SEMA3C,DL4,WNT5A,ARMC4,TFAP2A,AR,HEYL,CELSR1,CELSR2,EMX2,EN1
GO: Biological Process	GO:0051241	negative regulation of multicellular organismal process	6.07E-10	53	1500	EPHB2,SOX10,HHEX,PDGFB,NKX3-2,ETV4,SOX8,F2RL1,PRAG1,STX1B,UCN2,FGL2,ADORA2B,CCN4,FAP,ADRA1D,HOXB8,HOXC10,PTPR21,TMEM178A,NFIB,NTM,KLF5,DIO3,LOXL3,CMKLR1,NOTCH3,HAND2,TBX2,SEMA3C,NPR1,DRD1,ATF5,DL4,PROCR,WNT5A,RGCC,VASH1,ID3,ADAMTSS,RUNX3,ZFPM2,TGFB3,LIF,THBS4,HMGA2,CD9,TLR3,CD74,TACSTD2,PRG4,IL6,SEMA3E
GO: Biological Process	GO:0001944	vasculature development	1.27E-09	38	884	EPHB2,TSPAN12,PCSK5,HHEX,EREG,PDGFB,HOXB3,FAP,ALDH1A2,SRPX2,KLF5,HOXB13,FOXF1,NOTCH3,HAND2,TBX2,TBX3,SEMA3C,NPR1,DL4,WNT5A,NTRK2,RGCC,VASH1,TFAP2B,ZFPM2,COL23A1,LIF,THBS4,HMGA2,PLPP3,EGR1,EGR3,CLEC14A,TLR3,TMEM100,IL6,SEMA3E

GO: Biological Process	GO:0045944	positive regulation of transcription by RNA polymerase II	1.59E-09	48	1315	IL11,SOX10,HHEX,PDGFB,RPS6KA1,NKX3-2,ETV4,SOX8,F2RL1,HOXB3,BMP6,HOXB7,HOXC10,HOXD3,HOXD9,HOXD10,HOXD13,NFIB,KLF5,PITX1,PLAG1,FOXF1,NOTCH3,HAND2,TBX2,TBX15,TBX3,ATF5,FOS,WNT5A,RGCC,EBF1,RUNX3,TFAP2A,TFAP2B,AR,ZFPM2,TGF
GO: Biological Process	GO:0048732	gland development	1.63E-09	28	517	B3,LIF,HEYL,HMGA2,EGR1,EGR3,TLR3,EN1,GLIS1,IL6,HCLS1 SOX10,HHEX,MAN2A1,PDGFB,RPS6KA1,ETV4,HOXB3,ALDH1A2,CADM1,HOXD3,HOXD9,HOXD13,NFIB,PITX1,HR
GO: Biological Process	GO:0051093	negative regulation of developmental process	2.09E-09	45	1194	H2,PLAG1,HOXB13,FOXF1,HAND2,TBX2,TBX3,SEMA3C,WNT5A,EDA,AR,TGFB3,HMGA2,IL6 EPHB2,SOX10,HHEX,EREG,PDGFB,NKX3-
GO: Biological Process	GO:0048699	generation of neurons	2.55E-09	57	1751	2,ETV4,SOX8,PRAG1,STX1B,FGL2,CCN4,HOXB8,PTPRZ1,TMEM178A,NFIB,NTM,KLF5,DIO3,LOXL3,USH2A,NOTC H3,HAND2,TBX2,TBX3,SEMA3C,NPR1,ATF5,DLL4,WNT5A,RGCC,VASH1,ID3,RUNX3,ZFPM2,LIF,THBS4,HMGA2,T
GO: Biological Process	GO:0072001	renal system development	2.78E-09	22	333	LR3,CD74,TACSTD2,PRDM6,GLIS1,IL6,SEMA3E EPHB2,SOX10,MAN2A1,PSD,PDGFB,ETV4,TSHR,SOX8,PRAG1,STX1B,GFRA2,NEFM,HOXB3,BMP6,ANOS1,ALDH1
GO: Biological Process	GO:0030326	embryonic limb morphogenesis	2.79E-09	15	146	A2,HOXC10,PTPRD,HOXD3,HOXD9,HOXD10,PTPRZ1,NFIB,STMN3,NTM,DIO3,UGT8,CHRD1,PLAG1,KIF5C,USH 2A,NOTCH3,HAND2,SHANK1,GPM6B,SEMA3C,DRD1,ATF5,DLL4,WNT5A,NTRK2,L1CAM,ID3,DUSP15,RUNX3,TF
GO: Biological Process	GO:0035113	embryonic appendage morphogenesis	2.79E-09	15	146	AP2A,LIF,HEYL,CELSR1,THBS4,HMGA2,CELSR2,KNDC1,EMX2,EN1,IL6,SEMA3E ALDH1A2,FBN2,HOXC10,HOXD9,HOXD10,HOXD11,HOXD13,PITX1,HAND2,TBX2,TBX3,FRAS1,WNT5A,TFAP2A,E
GO: Biological Process	GO:0002009	morphogenesis of an epithelium	3.16E-09	31	641	N1 ALDH1A2,FBN2,HOXC10,HOXD9,HOXD10,HOXD11,HOXD13,PITX1,HAND2,TBX2,TBX3,FRAS1,WNT5A,TFAP2A,E
GO: Biological Process	GO:0007417	central nervous system development	3.67E-09	43	1129	N1 SOX10,HHEX,FOXQ1,PDGFB,ETV4,SOX8,HOXB7,ALDH1A2,HOXD11,HOXD13,HOXB13,FOXF1,HAND2,TBX2,TBX3
GO: Biological Process	GO:0072359	circulatory system development	5.57E-09	47	1322	,SEMA3C,FRAS1,DLL4,PODXL,WNT5A,RUNX3,LGR5,TFAP2A,AR,LIF,CELSR1,HMGA2,CELSR2,TACSTD2,IL6,SEMA 3E
GO: Biological Process	GO:0022612	gland morphogenesis	6.39E-09	15	155	EPHB2,SOX10,NE5,HHEX,SOX8,HOXB3,HOXB8,ALDH1A2,HOXC10,HOXD10,PTPRZ1,NFIB,PITX1,SLC17A7,UGT8, LOXL3,ADGRL2,NOTCH3,TBX2,SHANK1,TBX3,DRD1,GPR17,ATF5,DLL4,WNT5A,NTRK2,ID3,DUSP15,ARMC4,SHR
GO: Biological Process	GO:0003002	regionalization	8.56E-09	23	386	OOM2,TFAP2A,LIF,CELSR1,HMGA2,CD9,CELSR2,PLPP3,KNDC1,HAPLN3,EMX2,EN1,IL6 EPHB2,TSPAN12,PCSK5,HHEX,EREG,PDGFB,ACT1,CCN4,HOXB3,FAP,ALDH1A2,SRPX2,KLF5,COL14A1,HOXB13,F
GO: Biological Process	GO:0007423	sensory organ development	9.16E-09	30	633	OXF1,NOTCH3,HAND2,TBX2,TBX3,SEMA3C,NPR1,DLL4,WNT5A,NTRK2,RGCC,VASH1,ID3,ARMC4,TFAP2A,TFAP2B ,ZFPM2,COL23A1,TGFB3,LIF,HEYL,THBS4,HMGA2,PLPP3,EGR1,EGR3,CLEC14A,TLR3,TMEM100,IL6,SEMA3E,PL
GO: Biological Process	GO:0022612	gland morphogenesis	6.39E-09	15	155	CE1 PDGFB,RPS6KA1,ETV4,HOXD13,NFIB,PLAG1,HOXB13,TBX2,TBX3,SEMA3C,WNT5A,EDA,AR,TGFB3,IL6
GO: Biological Process	GO:0003002	regionalization	8.56E-09	23	386	PCSK5,HHEX,HOXB3,HOXB7,HOXB8,ALDH1A2,HOXC10,HOXD3,HOXD9,HOXD10,HOXD11,HOXD13,FOXF1,TBX3 ,SEMA3C,DLL4,WNT5A,AR,HEYL,CELSR1,CELSR2,EMX2,EN1
GO: Biological Process	GO:0007423	sensory organ development	9.16E-09	30	633	EPHB2,TSPAN12,NE5,EYA4,MAN2A1,PDGFB,NKX3- 2,TSHR,SOX8,BMP6,ALDH1A2,FBN2,SLC17A7,DIO3,CHRD1,USH2A,HAND2,TBX2,DLL4,SOBP,WNT5A,NTRK2,L
GO: Biological Process	GO:0009792	embryo development ending in birth or egg hatching	9.30E-09	35	828	GR5,SHROOM2,TFAP2A,TFAP2B,TGFB3,LIF,CELSR1,MAB21L1 PCSK5,SOX10,HHEX,MAN2A1,PDGFB,NKX3-
GO: Biological Process	GO:0048706	embryonic skeletal system development	1.35E-08	14	140	2,SOX8,HOXB3,HOXB7,HOXB8,ALDH1A2,HOXD3,HOXD9,HOXD10,HOXD11,STMN3,FOXF1,HAND2,TBX15,TBX3, SEMA3C,KRT19,WNT5A,VASH1,APBA2,TFAP2A,AR,ZFPM2,TGFB3,LIF,CELSR1,KIAA1217,EN1,TMEM100,RAI2
GO: Biological Process	GO:0043009	chordate embryonic development	1.58E-08	34	805	PCSK5,NKX3- 2,HOXB3,HOXB7,HOXB8,HOXD3,HOXD9,HOXD10,HOXD11,TBX15,WNT5A,TFAP2A,TGFB3,KIAA1217
GO: Biological Process	GO:0007267	cell-cell signaling	1.82E-08	58	1899	PCSK5,SOX10,HHEX,MAN2A1,PDGFB,NKX3- 2,SOX8,HOXB3,HOXB7,HOXB8,ALDH1A2,HOXD3,HOXD9,HOXD10,HOXD11,STMN3,FOXF1,HAND2,TBX15,TBX3, SEMA3C,KRT19,WNT5A,VASH1,APBA2,TFAP2A,AR,ZFPM2,TGFB3,LIF,CELSR1,KIAA1217,EN1,TMEM100
GO: Biological Process	GO:0007267	cell-cell signaling	1.82E-08	58	1899	EPHB2,TSPAN12,IL11,PCSK5,SOX10,HHEX,EREG,PDGFB,PENK,TSHR,SOX8,CHRM3,STX1B,UCN2,ADORA2B,CCN4 ,BMP6,ADRA10,CADM1,PTPRD,HOXD11,KLF5,SCN1A,SLC17A7,FGF5,HRH2,CXCL6,SHANK1,TRHDE,TBX3,DRD1,
GO: Biological Process	GO:0045596	negative regulation of cell differentiation	2.41E-08	35	860	DTNA,WNT5A,NTRK2,L1CAM,RAB11FIP2,NTSR1,APBA2,LGR5,EDA,SYT7,TFAP2A,TFAP2B,AR,MST1R,LIF,CELSR1, HMGA2,MCTP1,CELSR2,PLPP3,EGR1,SLC16A2,EGR3,CD70,IGSF9B,RSP01,IL6
GO: Biological Process	GO:0045596	negative regulation of cell differentiation	2.41E-08	35	860	EPHB2,SOX10,EREG,PDGFB,NKX3- 2,SOX8,PRAG1,STX1B,FGL2,CCN4,HOXB8,PTPRZ1,TMEM178A,NTM,KLF5,DIO3,LOXL3,USH2A,NOTCH3,HAND2, TBX3,SEMA3C,ATF5,WNT5A,ID3,RUNX3,ZFPM2,HMGA2,TLR3,CD74,TACSTD2,PRDM6,GLIS1,IL6,SEMA3E

GO: Biological Process	GO:0048514	blood vessel morphogenesis	3.98E-08	32	755	EPHB2,TSPAN12,HHEX,EREG,PDGFB,HOXB3,FAP,SRPX2,KLF5,HOXB13,FOXF1,NOTCH3,HAND2,TBX2,NPR1,DLL4,WNT5A,NTRK2,RGCC,VASH1,TFAP2B,ZFPM2,COL23A1,LIF,THBS4,HMGA2,EGR3,CLEC14A,TLR3,TMEM100,IL6,SEMA3E
GO: Biological Process	GO:0030182	neuron differentiation	6.92E-08	50	1578	EPHB2,PSD,PDGFB,ETV4,TSHR,SOX8,PRAG1,STX1B,GFRA2,NEFM,BMP6,ANOS1,ALDH1A2,HOXC10,PTPRD,HOXD3,HOXD9,HOXD10,PTPRZ1,NFIB,STMN3,NTM,DIO3,UGT8,CHRD1,KIF5C,USH2A,NOTCH3,HAND2,SHANK1,GPM6B,SEMA3C,DRD1,ATF5,DLA4,WNT5A,NTRK2,L1CAM,IDS,RUNX3,TFAP2A,LIF,HEYL,THBS4,CELSR2,KNDC1,EMX2,EN1,IL6,SEMA3E
GO: Biological Process	GO:0051094	positive regulation of developmental process	7.73E-08	51	1632	EPHB2,SOX10,MAN2A1,PDGFB,HLA-DQA1,RPS6KA1,TSHR,SOX8,CCN4,BMP6,HOXB7,SRPX2,FBN2,PTPRD,HOXD3,HOXD11,PTPRZ1,KLF5,DIO3,PLAG1,CMKLR1,ADGRL2,HAND2,TBX2,SHANK1,GPM6B,SEMA3C,TRIM58,FOS,WNT5A,NTRK2,RGCC,L1CAM,PKDCC,RUNX3,TFAP2A,AR,ZFPM2,MSR1,TGFB3,LIF,HEYL,HMGA2,EGR1,EGR3,TLR3,CD74,TACSTD2,TMEM100,IL6,HCLS1
GO: Biological Process	GO:0045893	positive regulation of transcription, DNA-templated	1.03E-07	51	1647	IL11,SOX10,HHEX,PDGFB,RPS6KA1,NKX3-2,ETV4,SOX8,F2RL1,HOXB3,BMP6,HOXB7,AFAP1L2,HOXC10,HOXD3,HOXD9,HOXD10,HOXD13,NFIB,KLF5,PITX1,PLAG1,FOXF1,NOTCH3,HAND2,TBX2,TBX15,TBX3,ATF5,FOS,WNT5A,RGCC,EBF1,RUNX3,TFAP2A,TFAP2B,AR,ZFPM2,NFE2L3,TGFB3,LIF,HEYL,HMGA2,EGR1,EGR3,TLR3,CD74,EN1,GLIS1,IL6,HCLS1
GO: Biological Process	GO:0060485	mesenchyme development	1.25E-07	19	312	SOX10,ACTC1,SOX8,ALDH1A2,LOXL3,FOXF1,HAND2,TBX2,SEMA3C,WNT5A,RGCC,TFAP2A,ZFPM2,TGFB3,HEYL,HMGA2,TMEM100,IL6,SEMA3E
GO: Biological Process	GO:0008284	positive regulation of cell population proliferation	1.29E-07	39	1096	IL11,SOX10,NES,EREG,PDGFB,TSHR,SOX8,ADORA2B,CCN4,BMP6,ADRA1D,ALDH1A2,HOXC10,PTPRZ1,KLF5,FGF5,PLAG1,FOXF1,NOTCH3,TBX2,TBX3,DLA4,WNT5A,NTRK2,TFAP2B,AR,ZFPM2,TGFB3,MST1R,LIF,THBS4,HMGA2,EGR1,EGR3,CD70,CD74,IL6,MAB21L1,HCLS1
GO: Biological Process	GO:0001654	eye development	1.62E-07	22	418	EPHB2,TSPAN12,NES,MAN2A1,PDGFB,SOX8,BMP6,ALDH1A2,FBN2,SLC17A7,DIO3,CHRD1,USH2A,TBX2,DLA4,WNT5A,NTRK2,SHROOM2,TFAP2A,TFAP2B,LIF,MAB21L1
GO: Biological Process	GO:0150063	visual system development	1.91E-07	22	422	EPHB2,TSPAN12,NES,MAN2A1,PDGFB,SOX8,BMP6,ALDH1A2,FBN2,SLC17A7,DIO3,CHRD1,USH2A,TBX2,DLA4,WNT5A,NTRK2,SHROOM2,TFAP2A,TFAP2B,LIF,MAB21L1
GO: Biological Process	GO:2000027	regulation of animal organ morphogenesis	1.94E-07	18	289	SOX8,HOXB7,HOXD11,HOXD13,NFIB,DIO3,HAND2,TBX2,SEMA3C,WNT5A,TFAP2A,AR,TGFB3,LIF,CELSR1,HMGA2,CELSR2,TACSTD2
GO: Biological Process	GO:0048880	sensory system development	2.34E-07	22	427	EPHB2,TSPAN12,NES,MAN2A1,PDGFB,SOX8,BMP6,ALDH1A2,FBN2,SLC17A7,DIO3,CHRD1,USH2A,TBX2,DLA4,WNT5A,NTRK2,SHROOM2,TFAP2A,TFAP2B,LIF,MAB21L1
GO: Biological Process	GO:0035136	forelimb morphogenesis	2.51E-07	8	46	ALDH1A2,HOXD9,HOXD10,HOXD11,TBX3,TFAP2A,TFAP2B,EN1
GO: Biological Process	GO:0043010	camera-type eye development	2.92E-07	20	363	EPHB2,TSPAN12,NES,MAN2A1,PDGFB,SOX8,ALDH1A2,FBN2,SLC17A7,DIO3,USH2A,TBX2,DLA4,WNT5A,NTRK2,SHROOM2,TFAP2A,TFAP2B,LIF,MAB21L1
GO: Biological Process	GO:0048705	skeletal system morphogenesis	3.65E-07	17	270	NKX3-2,HOXB3,BMP6,HOXB7,HOXB8,FBN2,HOXD3,HOXD9,HOXD10,HOXD11,COL14A1,ALPL,TBX15,COL7A1,HOTTIP,TFAP2A,TGFB3
GO: Biological Process	GO:0007422	peripheral nervous system development	4.01E-07	10	86	SOX10,SOX8,HOXD9,HOXD10,UGT8,HAND2,NTRK2,RUNX3,HEYL,EGR3
GO: Biological Process	GO:1903508	positive regulation of nucleic acid-templated transcription	5.20E-07	51	1736	IL11,SOX10,HHEX,PDGFB,RPS6KA1,NKX3-2,ETV4,SOX8,F2RL1,HOXB3,BMP6,HOXB7,AFAP1L2,HOXC10,HOXD3,HOXD9,HOXD10,HOXD13,NFIB,KLF5,PITX1,PLAG1,FOXF1,NOTCH3,HAND2,TBX2,TBX15,TBX3,ATF5,FOS,WNT5A,RGCC,EBF1,RUNX3,TFAP2A,TFAP2B,AR,ZFPM2,NFE2L3,TGFB3,LIF,HEYL,HMGA2,EGR1,EGR3,TLR3,CD74,EN1,GLIS1,IL6,HCLS1
GO: Biological Process	GO:1902680	positive regulation of RNA biosynthetic process	5.29E-07	51	1737	IL11,SOX10,HHEX,PDGFB,RPS6KA1,NKX3-2,ETV4,SOX8,F2RL1,HOXB3,BMP6,HOXB7,AFAP1L2,HOXC10,HOXD3,HOXD9,HOXD10,HOXD13,NFIB,KLF5,PITX1,PLAG1,FOXF1,NOTCH3,HAND2,TBX2,TBX15,TBX3,ATF5,FOS,WNT5A,RGCC,EBF1,RUNX3,TFAP2A,TFAP2B,AR,ZFPM2,NFE2L3,TGFB3,LIF,HEYL,HMGA2,EGR1,EGR3,TLR3,CD74,EN1,GLIS1,IL6,HCLS1
GO: Biological Process	GO:0090596	sensory organ morphogenesis	5.43E-07	18	310	EPHB2,TSPAN12,EYA4,MAN2A1,PDGFB,NKX3-2,TSHR,SOX8,FBN2,DIO3,TBX2,SOBP,WNT5A,NTRK2,SHROOM2,TFAP2A,TFAP2B,CELSR1
GO: Biological Process	GO:0072006	nephron development	5.93E-07	13	162	PDGFB,SOX8,HOXB7,HOXD11,NOTCH3,PODXL,TFAP2A,TFAP2B,LIF,HEYL,EGR1,TACSTD2,PLCE1
GO: Biological Process	GO:0048754	branching morphogenesis of an epithelial tube	6.17E-07	14	190	HHEX,ETV4,SOX8,HOXB7,HOXD11,FOXF1,TBX3,DLA4,WNT5A,AR,CELSR1,HMGA2,TACSTD2,SEMA3E
GO: Biological Process	GO:0061448	connective tissue development	6.55E-07	18	314	PDGFB,NKX3-2,SOX8,CCN4,HOXB3,BMP6,HOXD3,HOXD11,NFIB,PITX1,COL14A1,HAND2,COL7A1,WNT5A,PKDCC,RUNX3,HMGA2,EGR1
GO: Biological Process	GO:0001822	kidney development	6.55E-07	18	314	PCSK5,PDGFB,SOX8,BMP6,HOXB7,ALDH1A2,HOXD11,NOTCH3,FRAS1,PODXL,IDS,TFAP2A,TFAP2B,LIF,HEYL,EGR1,TACSTD2,PLCE1
GO: Biological Process	GO:0060021	roof of mouth development	9.27E-07	10	94	EPHB2,LOXL3,HAND2,TBX2,TBX3,FRAS1,WNT5A,PKDCC,TFAP2A,TGFB3
GO: Biological Process	GO:0048935	peripheral nervous system neuron development	1.02E-06	5	14	HOXD9,HOXD10,HAND2,NTRK2,RUNX3
GO: Biological Process	GO:0048934	peripheral nervous system neuron differentiation	1.02E-06	5	14	HOXD9,HOXD10,HAND2,NTRK2,RUNX3

GO: Biological Process	GO:0030323	respiratory tube development	1.10E-06	15	229	PCSK5,HHEX,MAN2A1,ALDH1A2,NFIB,LOXL3,FOXF1,CRISPLD2,WNT5A,PKDCC,ZFPM2,TGFB3,LIF,CELSR1,HMG A2
GO: Biological Process	GO:0010001	glial cell differentiation	1.15E-06	16	261	SOX10,PDGFB,SOX8,PTPRZ1,NFIB,FGF5,DRD1,GPR17,ATF5,NTRK2,DUSP15,LIF,HMGA2,CD9,PLPP3,IL6
GO: Biological Process	GO:0048565	digestive tract development	1.16E-06	12	145	PCSK5,SOX10,NKX3-2,ALDH1A2,HOXD13,KLF5,HRH2,FOXF1,TBX2,WNT5A,PKDCC,TGFB3
GO: Biological Process	GO:0060562	epithelial tube morphogenesis	1.19E-06	20	397	HHEX,ETV4,SOX8,HOXB7,ALDH1A2,HOXD11,FOXF1,HAND2,TBX2,TBX3,DL4,PODXL,WNT5A,LGR5,TFAP2A,AR,CELSR1,HMGA2,TACSTD2,SEMA3E
GO: Biological Process	GO:0051216	cartilage development	1.36E-06	15	233	NKX3-2,CCN4,HOXB3,BMP6,HOXD3,HOXD11,NFIB,PITX1,COL14A1,HAND2,COL7A1,WNT5A,PKDCC,RUNX3,HMGA2
GO: Biological Process	GO:0000122	negative regulation of transcription by RNA polymerase II	1.42E-06	33	931	HHEX,KLF8,FOXQ1,PDGFB,NKX3-2,HOXB3,BMP6,HOXB8,HOXD9,NFIB,KLF5,HOXB13,FOXF1,NOTCH3,TBX2,TBX15,TBX3,DL4,ID3,DUSP15,RUNX3,TFAP2A,TFAP2B,AR,ZFPM2,NFE2L3,HEYL,HMGA2,EGR1,EMX2,EN1,GUS1,HCLS1
GO: Biological Process	GO:0007155	cell adhesion	1.83E-06	45	1509	PCSK5,HLA-DQA1,ITGB7,FGL2,CCN4,BMP6,FAP,ANOS1,SRPX2,CORO2B,CADM1,CDH20,PTPRD,HOXD3,PTPRZ1,LRFN5,NTM,COL14A1,LOXL3,FOXF1,FERMT3,GPM6B,FBLN7,COL7A1,KRT18,PODXL,WNT5A,RGCC,L1CAM,RUNX3,EDA,CELSR1,THBS4,CD9,CELSR2,PLPP3,EGR3,CD70,HAPLN3,CD74,LSAMP,IGSF9B,TACSTD2,IL6,SEMA3E
GO: Biological Process	GO:0045892	negative regulation of transcription, DNA-templated	1.91E-06	41	1316	SOX10,HHEX,KLF8,EREG,FOXQ1,PDGFB,NKX3-2,SOX8,HOXB3,BMP6,HOXB8,HOXD9,NFIB,KLF5,PITX1,LOXL3,HOXB13,FOXF1,NOTCH3,TBX2,TBX15,TBX3,ATF5,DL4,WNT5A,ID3,DUSP15,RUNX3,TFAP2A,TFAP2B,AR,ZFPM2,NFE2L3,HEYL,HMGA2,EGR1,EMX2,EN1,PRDM6,GLIS1,HCLS1
GO: Biological Process	GO:0001525	angiogenesis	2.04E-06	26	645	EPHB2,TSPAN12,HHEX,EREG,HOXB3,FAP,SRPX2,KLF5,HOXB13,NOTCH3,HAND2,NPR1,DL4,WNT5A,RGCC,VASH1,COL23A1,LIF,THBS4,HMGA2,EGR3,CLEC14A,TLR3,TMEM100,IL6,SEMA3E
GO: Biological Process	GO:0022610	biological adhesion	2.07E-06	45	1516	PCSK5,HLA-DQA1,ITGB7,FGL2,CCN4,BMP6,FAP,ANOS1,SRPX2,CORO2B,CADM1,CDH20,PTPRD,HOXD3,PTPRZ1,LRFN5,NTM,COL14A1,LOXL3,FOXF1,FERMT3,GPM6B,FBLN7,COL7A1,KRT18,PODXL,WNT5A,RGCC,L1CAM,RUNX3,EDA,CELSR1,THBS4,CD9,CELSR2,PLPP3,EGR3,CD70,HAPLN3,CD74,LSAMP,IGSF9B,TACSTD2,IL6,SEMA3E
GO: Biological Process	GO:0060284	regulation of cell development	2.13E-06	37	1132	EPHB2,SOX10,MAN2A1,SOX8,PRAG1,STX1B,NEFM,CCN4,HOXB3,BMP6,PTPRD,HOXD3,HOXD11,PTPRZ1,NTM,DI O3,PLAG1,COL14A1,NOTCH3,SHANK1,SEMA3C,ATF5,TRIM58,DL4,WNT5A,NTRK2,L1CAM,ID3,DUSP15,TFAP2A,LIF,HEYL,HMGA2,KNDC1,TACSTD2,IL6,SEMA3E
GO: Biological Process	GO:0048762	mesenchymal cell differentiation	2.18E-06	15	242	SOX10,SOX8,ALDH1A2,LOXL3,HAND2,SEMA3C,WNT5A,RGCC,TFAP2A,TGFB3,HEYL,HMGA2,TMEM100,IL6,SEM A3E
GO: Biological Process	GO:0051960	regulation of nervous system development	2.20E-06	36	1087	EPHB2,SOX10,MAN2A1,SOX8,PRAG1,STX1B,NEFM,HOXB3,BMP6,SRPX2,PTPRD,HOXD3,PTPRZ1,LRFN5,NTM,DI O3,PLAG1,ADGRL2,NOTCH3,SHANK1,SEMA3C,ATF5,DL4,WNT5A,NTRK2,L1CAM,ID3,DUSP15,TFAP2A,LIF,HEY L,CELSR1,HMGA2,KNDC1,IL6,SEMA3E
GO: Biological Process	GO:0051254	positive regulation of RNA metabolic process	2.42E-06	51	1829	IL11,SOX10,HHEX,PDGFB,RPS6KA1,NKX3-2,ETV4,SOX8,F2RL1,HOXB3,BMP6,HOXB7,AFAP1L2,HOXC10,HOXD3,HOXD9,HOXD10,HOXD13,NFIB,KLF5,PITX 1,PLAG1,FOXF1,NOTCH3,HAND2,TBX2,TBX15,TBX3,ATF5,FOS,WNT5A,RGCC,EBF1,RUNX3,TFAP2A,TFAP2B,AR,ZF PM2,NFE2L3,TGFB3,LIF,HEYL,HMGA2,EGR1,EGR3,TLR3,CD74,EN1,GUS1,IL6,HCLS1
GO: Biological Process	GO:0048592	eye morphogenesis	2.50E-06	13	184	EPHB2,TSPAN12,MAN2A1,PDGFB,SOX8,FBN2,DIO3,TBX2,WNT5A,NTRK2,SHROOM2,TFAP2A,TFAP2B
GO: Biological Process	GO:0048704	embryonic skeletal system morphogenesis	2.58E-06	10	105	HOXB3,HOXB7,HOXB8,HOXD3,HOXD9,HOXD10,HOXD11,TBX15,TFAP2A,TGFB3
GO: Biological Process	GO:0045073	regulation of chemokine biosynthetic process	3.05E-06	5	17	WNT5A,EGR1,TLR3,CD74,IL6
GO: Biological Process	GO:0055123	digestive system development	3.08E-06	12	159	PCSK5,SOX10,NKX3-2,ALDH1A2,HOXD13,KLF5,HRH2,FOXF1,TBX2,WNT5A,PKDCC,TGFB3
GO: Biological Process	GO:0050673	epithelial cell proliferation	3.21E-06	22	500	EREG,PDGFB,RPS6KA1,ETV4,ADORA2B,BMP6,FAP,ALDH1A2,NFIB,DL4,WNT5A,RGCC,VASH1,WFDC1,RUNX3,LG R5,AR,THBS4,HMGA2,EGR3,TACSTD2,IL6
GO: Biological Process	GO:0032989	cellular component morphogenesis	3.25E-06	40	1296	EPHB2,NEF,ACTC1,ETV4,PRAG1,ITGB7,GFRA2,NEFM,ANOS1,CADM1,CDH20,PTPRD,PTPRZ1,NFIB,UGT8,HRH2,C OL14A1,KIF5C,FERMT3,SHANK1,COL7A1,SEMA3C,KRT19,WNT5A,NTRK2,L1CAM,RUNX3,SHROOM2,AR,COL23A1, THBS4,SHROOM1,ARAP3,CD9,CELSR2,CSR2,KNDC1,TACSTD2,IL6,SEMA3E
GO: Biological Process	GO:0042063	gliogenesis	3.33E-06	18	352	SOX10,PDGFB,PENK,SOX8,PTPRZ1,NFIB,FGF5,PLAG1,DRD1,GPR17,ATF5,NTRK2,DUSP15,LIF,HMGA2,CD9,PLPP 3,IL6
GO: Biological Process	GO:0030855	epithelial cell differentiation	3.45E-06	31	880	HHEX,EREG,PDGFB,NKX3-2,SOX8,F2RL1,BMP6,NFIB,KLF5,HRH2,USH2A,HOXB13,FOXF1,TBX3,KRT18,KRT19,PODXL,WNT5A,ID3,TFAP2A, R,KRT23,COL23A1,LIF,KRTAP1-5,KRTAP1-1,ROS1,CTSB,TMEM100,KRT38,KRT36
GO: Biological Process	GO:0042033	chemokine biosynthetic process	4.17E-06	5	18	WNT5A,EGR1,TLR3,CD74,IL6

GO: Biological Process	GO:0030324	lung development	4.56E-06	14	225	HHEX,MAN2A1,ALDH1A2,NFIB,LOXL3,FOXF1,CRISPLD2,WNT5A,PKDCC,ZFPM2,TGFB3,LIF,CELSR1,HMGA2
GO: Biological Process	GO:0045165	cell fate commitment	4.83E-06	17	326	SOX8,HOXC10,HOXD10,HOXD11,PITX1,CHRDL1,LOXL3,NOTCH3,TBX2,TBX15,TBX3,DLL4,WNT5A,TFAP2A,AR,GLIS1,IL6
GO: Biological Process	GO:0060541	respiratory system development	5.01E-06	15	259	HHEX,MAN2A1,ALDH1A2,NFIB,LOXL3,FOXF1,CRISPLD2,WNT5A,PKDCC,EDA,ZFPM2,TGFB3,LIF,CELSR1,HMGA2
GO: Biological Process	GO:0045597	positive regulation of cell differentiation	5.12E-06	37	1176	EPHB2,SOX10,MAN2A1,HLA-DQA1,RP56KA1,SOX8,CCN4,BMP6,FBN2,PTPRD,HOXD3,HOXD11,PTPRZ1,KLF5,PLAG1,CMKLR1,SHANK1,SEMA3C,TRIM58,FOS,WNT5A,NTRK2,RGCC,L1CAM,PKDCC,RUNX3,AR,MSR1,TGFB3,LIF,HEYL,EGR3,CD74,TACSTD2,TMEM100,IL6,HCLS1
GO: Biological Process	GO:1903507	negative regulation of nucleic acid-templated transcription	5.14E-06	41	1370	SOX10,HHEX,KLF8,EREG,FOXQ1,PDGFB,NKX3-2,SOX8,HOXB3,BMP6,HOXB8,HOXD9,NFIB,KLF5,PITX1,LOXL3,HOXB13,FOXF1,NOTCH3,TBX2,TBX15,TBX3,ATF5,DLL4,WNT5A,ID3,DUSP15,RUNX3,TFAP2A,TFAP2B,AR,ZFPM2,NFE2L3,HEYL,HMGA2,EGR1,EMX2,EN1,PRDM6,GLIS1,HCLS1
GO: Biological Process	GO:1902679	negative regulation of RNA biosynthetic process	5.32E-06	41	1372	SOX10,HHEX,KLF8,EREG,FOXQ1,PDGFB,NKX3-2,SOX8,HOXB3,BMP6,HOXB8,HOXD9,NFIB,KLF5,PITX1,LOXL3,HOXB13,FOXF1,NOTCH3,TBX2,TBX15,TBX3,ATF5,DLL4,WNT5A,ID3,DUSP15,RUNX3,TFAP2A,TFAP2B,AR,ZFPM2,NFE2L3,HEYL,HMGA2,EGR1,EMX2,EN1,PRDM6,GLIS1,HCLS1
GO: Biological Process	GO:0050755	chemokine metabolic process	5.59E-06	5	19	WNT5A,EGR1,TLR3,CD74,IL6
GO: Biological Process	GO:0060041	retina development in camera-type eye	6.53E-06	12	171	TSPAN12,MAN2A1,PDGFB,SOX8,SLC17A7,DIO3,USH2A,DLL4,NTRK2,TFAP2A,TFAP2B,LIF
GO: Biological Process	GO:0022603	regulation of anatomical structure morphogenesis	6.84E-06	39	1288	EPHB2,TSPAN12,HHEX,SOX8,PRAG1,NEFM,HOXB7,SRPX2,PTPRD,HOXD11,HOXD13,PTPRZ1,NFIB,DIO3,HAND2,TBX2,SEMA3C,NPR1,DLL4,WNT5A,NTRK2,RGCC,L1CAM,VASH1,TFAP2A,AR,TGFB3,LIF,CELSR1,THBS4,ARAP3,HMGA2,CELSR2,TLR3,KNDC1,TACSTD2,TMEM100,IL6,SEMA3E
GO: Biological Process	GO:0061061	muscle structure development	7.26E-06	28	779	EREG,PDGFB,ACTC1,SOX8,CCN4,HOXD9,HOXD10,KLF5,PITX1,COL14A1,FOXF1,TBX2,TBX3,DLL4,KRT19,FOS,WNT5A,HOTTIP,ID3,ZFPM2,LIF,HEYL,CD9,EGR1,EGR3,CSRP2,PRDM6,IL6
GO: Biological Process	GO:0016477	cell migration	8.77E-06	48	1757	PCSK5,SOX10,PDGFB,DAPK2,SOX8,F2RL1,PRAG1,F7,ITGB7,ADORA2B,CCN4,FAP,SRPX2,PTPRZ1,CMKLR1,MMP10,CXCL6,FOXF1,HAND2,FERMT3,SEMA3C,DRD1,DLL4,PODXL,WNT5A,NTRK2,RGCC,L1CAM,VASH1,SHROOM2,CXCL1,TFAP2A,CELSR1,THBS4,ARAP3,MCTP1,CD9,CELSR2,PLPP1,PLPP3,EGR1,EGR3,CLEC14A,CD74,EMX2,TACSTD2,IL6,SEMA3E
GO: Biological Process	GO:0009954	proximal/distal pattern formation	9.09E-06	6	35	ALDH1A2,HOXC10,HOXD9,HOXD10,HOXD11,EN1
GO: Biological Process	GO:0050767	regulation of neurogenesis	9.35E-06	32	971	EPHB2,SOX10,MAN2A1,SOX8,PRAG1,STX1B,NEFM,HOXB3,BMP6,PTPRD,HOXD3,PTPRZ1,NTM,DIO3,PLAG1,NOTCH3,SHANK1,SEMA3C,ATF5,DLL4,WNT5A,NTRK2,L1CAM,ID3,DUSP15,TFAP2A,LIF,HEYL,HMGA2,KNDC1,IL6,SEMA3E
GO: Biological Process	GO:0001656	metanephros development	1.20E-05	9	99	PDGFB,SOX8,HOXD11,FRAS1,ID3,TFAP2A,TFAP2B,LIF,EGR1
GO: Biological Process	GO:0035115	embryonic forelimb morphogenesis	1.27E-05	6	37	ALDH1A2,HOXD9,HOXD11,TBX3,TFAP2A,EN1
GO: Biological Process	GO:0000902	cell morphogenesis	1.31E-05	36	1178	EPHB2,NES,ETV4,PRAG1,ITGB7,GFRA2,NEFM,ANOS1,CADM1,CDH20,PTPRD,PTPRZ1,NFIB,UGT8,HRH2,COL14A1,KIF5C,FERMT3,SHANK1,COL7A1,SEMA3C,WNT5A,NTRK2,L1CAM,RUNX3,SHROOM2,AR,COL23A1,THBS4,SHROOM1,ARAP3,CELSR2,KNDC1,TACSTD2,IL6,SEMA3E
GO: Biological Process	GO:0035272	exocrine system development	1.41E-05	7	56	SOX10,PDGFB,NFIB,SEMA3C,EDA,TGFB3,IL6
GO: Biological Process	GO:0110110	positive regulation of animal organ morphogenesis	1.42E-05	9	101	SOX8,HOXB7,HOXD11,HAND2,SEMA3C,TFAP2A,AR,LIF,HMGA2
GO: Biological Process	GO:0050678	regulation of epithelial cell proliferation	1.59E-05	19	433	EREG,PDGFB,ETV4,ADORA2B,BMP6,ALDH1A2,NFIB,DLL4,WNT5A,RGCC,VASH1,WFDC1,RUNX3,AR,THBS4,HMGA2,EGR3,TACSTD2,IL6
GO: Biological Process	GO:0050731	positive regulation of peptidyl-tyrosine phosphorylation	1.66E-05	13	219	IL11,EREG,PDGFB,BMP6,AFAP1L2,PTPRZ1,NTRK2,LIF,THBS4,PLPP3,CD74,IL6,HCLS1
GO: Biological Process	GO:0044057	regulation of system process	1.70E-05	26	727	SOX10,PDGFB,PTGER2,F2RL1,CHRM3,STX1B,UCN2,ADORA2B,CCN4,BMP6,ADRA1D,CORO2B,HRH2,COL14A1,HAND2,TBX2,SHANK1,NPR1,DRD1,NTSR1,LIF,IGSF9B,TMEM100,IL6,CACNA2D3,PLCE1
GO: Biological Process	GO:0007626	locomotory behavior	1.73E-05	14	253	PENK,TSHR,HOXB8,HOXD9,HOXD10,SCN1A,DRD1,SOBP,NTSR1,APBA2,CELSR1,EGR1,LSAMP,EN1
GO: Biological Process	GO:0098609	cell-cell adhesion	1.84E-05	30	911	HLA-DQA1,ITGB7,FGI2,BMP6,SRPX2,CADM1,CDH20,PTPRD,LRFN5,COL14A1,LOXL3,FOXF1,FERMT3,KRT18,PODXL,WNT5A,RGCC,L1CAM,RUNX3,CELSR1,THBS4,CD9,CELSR2,PLPP3,EGR3,CD70,CD74,IGSF9B,TACSTD2,IL6
GO: Biological Process	GO:0030198	extracellular matrix organization	1.84E-05	18	399	PDGFB,ITGB7,FAP,FBN2,LOXL4,COL14A1,LOXL3,MMP10,FOXF1,CRISPLD2,GPM6B,COL7A1,COL9A3,RGCC,ADAMTS5,TFAP2A,COL23A1,IL6
GO: Biological Process	GO:0048666	neuron development	1.90E-05	38	1297	EPHB2,PSD,PDGFB,ETV4,TSHR,PRAG1,STX1B,GFRA2,NEFM,ANOS1,PTPRD,HOXD9,HOXD10,PTPRZ1,NFIB,STMN3,NTM,DIO3,UGT8,KIF5C,HAND2,SHANK1,GPM6B,SEMA3C,DRD1,ATF5,WNT5A,NTRK2,L1CAM,RUNX3,TFAP2A,LIF,THBS4,CELSR2,KNDC1,EN1,IL6,SEMA3E

GO: Biological Process	GO:0007517	muscle organ development	1.94E-05	20	479	ACTC1,SOX8,CCN4,HOXD9,HOXD10,KLF5,PITX1,COL14A1,TBX2,DLL4,FOS,WNT5A,HOTTIP,ID3,ZFPM2,LIF,HEYL,EGR1,EGR3,IL6
GO: Biological Process	GO:0002062	chondrocyte differentiation	1.99E-05	10	132	NKX3-2,CCN4,BMP6,HOXD11,NFIB,COL14A1,COL7A1,PKDCC,RUNX3,HMGA2
GO: Biological Process	GO:0072132	mesenchyme morphogenesis	2.00E-05	7	59	ACTC1,FOXF1,TBX2,WNT5A,TGFB3,HEYL,TMEM100
GO: Biological Process	GO:0007435	salivary gland morphogenesis	2.03E-05	6	40	PDGFB,NFIB,SEMA3C,EDA,TGFB3,IL6
GO: Biological Process	GO:0002064	epithelial cell development	2.25E-05	14	259	PDGFB,NKX3-2,SOX8,F2RL1,BMP6,KLF5,HRH2,HOXB13,PODXL,WNT5A,TFAP2A,AR,COL23A1,ROS1
GO: Biological Process	GO:0007610	behavior	2.31E-05	26	740	EPHB2,PENK,TSHR,HOXB8,SRPX2,HOXD9,HOXD10,PTPRZ1,SCN1A,SLC17A7,HRH2,HAND2,SHANK1,DRD1,SOBP,FOS,NTRK2,NTSR1,APBA2,AR,CELSR1,THBS4,EGR1,LSAMP,EN1,IL6
GO: Biological Process	GO:0048593	camera-type eye morphogenesis	2.58E-05	10	136	EPHB2,TSPAN12,MAN2A1,SOX8,DIO3,TBX2,WNT5A,SHROOM2,TFAP2A,TFAP2B
GO: Biological Process	GO:0051253	negative regulation of RNA metabolic process	2.59E-05	41	1467	SOX10,HHEX,KLF8,EREG,FOXQ1,PDGFB,NKX3-2,SOX8,HOXB3,BMP6,HOXB8,HOXD9,NFIB,KLF5,PITX1,LOXL3,HOXB13,FOXF1,NOTCH3,TBX2,TBX15,TBX3,ATF5,DLL4,WNT5A,ID3,DUSP15,RUNX3,TFAP2A,TFAP2B,AR,ZFPM2,NFE2L3,HEYL,HMGA2,EGR1,EMX2,EN1,PRDM6,GLIS1,HCLS1
GO: Biological Process	GO:0045778	positive regulation of ossification	2.62E-05	9	109	CCN4,BMP6,FBN2,GPM6B,WNT5A,PKDCC,TFAP2A,TGFB3,IL6
GO: Biological Process	GO:0046903	secretion	2.68E-05	48	1834	IL11,PCSK5,PDGFB,SYTL2,TOR4A,F2RL1,CHRM3,STX1B,UCN2,FGL2,ADORA2B,CCN4,BMP6,CADM1,SLC17A7,KC,NN4,HRH2,FAM3C,FOXF1,FERMT3,CRISPLD2,EXOC6,TBX3,NPR1,DRD1,ANK1,WNT5A,NTRK2,RGCC,RAB11FIP2,NTSR1,APBA2,CXCL1,SYT7,TFAP2B,TGFB3,LIF,CELSR1,NLRP10,HMGA2,MCTP1,CD9,CELSR2,LAT,SLC16A2,CD74,C,TSB,IL6
GO: Biological Process	GO:0030335	positive regulation of cell migration	2.80E-05	23	617	PCSK5,PDGFB,DAPK2,F2RL1,F7,ADORA2B,CCN4,SRPX2,PTPRZ1,CMKLR1,FOXF1,FERMT3,SEMA3C,DRD1,PODXL,WNT5A,TFAP2A,THBS4,PLPP3,EGR1,CD74,IL6,SEMA3E
GO: Biological Process	GO:0060537	muscle tissue development	2.92E-05	20	493	ACTC1,SOX8,CCN4,ALDH1A2,HOXD9,HOXD10,KLF5,PITX1,COL14A1,TBX2,TBX3,SEMA3C,DLL4,FOS,WNT5A,HOTTIP,ZFPM2,HEYL,EGR1,CSRFP2
GO: Biological Process	GO:0072210	metanephric nephron development	3.10E-05	6	43	PDGFB,SOX8,TFAP2A,TFAP2B,LIF,EGR1
GO: Biological Process	GO:0007431	salivary gland development	3.10E-05	6	43	PDGFB,NFIB,SEMA3C,EDA,TGFB3,IL6
GO: Biological Process	GO:0010562	positive regulation of phosphorus metabolic process	3.14E-05	37	1277	EPHB2,IL11,EREG,PDGFB,GCKR,F2RL1,GFRA2,RAB38,ADORA2B,BMP6,AFAP1L2,PTPRZ1,HAND2,DRD1,WNT5A,NTRK2,RGCC,NTSR1,SAMD5,DUSP15,AR,TGFB3,MST1R,LIF,THBS4,HMGA2,LAT,PLPP1,PLPP3,EGR1,TLR3,KNDC1,CD74,RSPO1,IL6,HCLS1,PLCE1
GO: Biological Process	GO:0045937	positive regulation of phosphate metabolic process	3.14E-05	37	1277	EPHB2,IL11,EREG,PDGFB,GCKR,F2RL1,GFRA2,RAB38,ADORA2B,BMP6,AFAP1L2,PTPRZ1,HAND2,DRD1,WNT5A,NTRK2,RGCC,NTSR1,SAMD5,DUSP15,AR,TGFB3,MST1R,LIF,THBS4,HMGA2,LAT,PLPP1,PLPP3,EGR1,TLR3,KNDC1,CD74,RSPO1,IL6,HCLS1,PLCE1
GO: Biological Process	GO:0040007	growth	3.31E-05	35	1181	SOX10,HHEX,EREG,RPS6KA1,TSHR,CCN4,RFTN1,CADM1,HOXD11,HOXD13,KLF5,DIO3,PLAG1,COL14A1,HOXB13,TBX2,SHANK1,COL7A1,SEMA3C,NPR1,ATF5,WNT5A,L1CAM,APBA2,PKDCC,WFDC1,AR,ZFPM2,TGFB3,HMGA2,CD9,ROS1,EN1,SEMA3E,PLCE1
GO: Biological Process	GO:0030501	positive regulation of bone mineralization	3.55E-05	6	44	BMP6,FBN2,GPM6B,PKDCC,TFAP2A,TGFB3
GO: Biological Process	GO:0045080	positive regulation of chemokine biosynthetic process	3.61E-05	4	14	WNT5A,EGR1,TLR3,CD74
GO: Biological Process	GO:0001934	positive regulation of protein phosphorylation	3.81E-05	34	1140	EPHB2,IL11,EREG,PDGFB,F2RL1,GFRA2,ADORA2B,BMP6,AFAP1L2,PTPRZ1,HAND2,DRD1,WNT5A,NTRK2,RGCC,SAMD5,DUSP15,AR,TGFB3,MST1R,LIF,THBS4,HMGA2,LAT,PLPP1,PLPP3,EGR1,TLR3,KNDC1,CD74,RSPO1,IL6,HC,LS1,PLCE1
GO: Biological Process	GO:0003151	outflow tract morphogenesis	4.34E-05	8	90	HAND2,TBX2,TBX3,SEMA3C,WNT5A,TFAP2A,ZFPM2,HEYL
GO: Biological Process	GO:0042327	positive regulation of phosphorylation	4.35E-05	35	1197	EPHB2,IL11,EREG,PDGFB,GCKR,F2RL1,GFRA2,ADORA2B,BMP6,AFAP1L2,PTPRZ1,HAND2,DRD1,WNT5A,NTRK2,RGCC,SAMD5,DUSP15,AR,TGFB3,MST1R,LIF,THBS4,HMGA2,LAT,PLPP1,PLPP3,EGR1,TLR3,KNDC1,CD74,RSPO1,IL6,HCLS1,PLCE1
GO: Biological Process	GO:0035137	hindlimb morphogenesis	4.60E-05	6	46	HOXD9,HOXD10,PITX1,TBX3,HOTTIP,TFAP2B
GO: Biological Process	GO:0043062	extracellular structure organization	4.69E-05	20	510	PDGFB,ITGB7,FAP,FBN2,LOXL4,COL14A1,LOXL3,MMP10,FOXF1,CRISPLD2,GPM6B,COL7A1,COL9A3,RGCC,ADAMTS5,TFAP2A,MSR1,COL23A1,LIPC,IL6
GO: Biological Process	GO:0051674	localization of cell	4.88E-05	49	1932	PCSK5,SOX10,EREG,PDGFB,DAPK2,SOX8,F2RL1,PRAG1,F7,ITGB7,ADORA2B,CCN4,FAP,SRPX2,PTPRZ1,CMKLR1,MP10,CXCL6,FOXF1,HAND2,FERMT3,SEMA3C,DRD1,DL4,PODXL,WNT5A,NTRK2,RGCC,L1CAM,VASH1,SHROOM2,CXCL1,TFAP2A,CELSR1,THBS4,ARAP3,MCTP1,CD9,CELSR2,PLPP1,PLPP3,EGR1,EGR3,CLEC14A,CD74,EMX2,TA,CSTD2,IL6,SEMA3E
GO: Biological Process	GO:0048870	cell motility	4.88E-05	49	1932	PCSK5,SOX10,EREG,PDGFB,DAPK2,SOX8,F2RL1,PRAG1,F7,ITGB7,ADORA2B,CCN4,FAP,SRPX2,PTPRZ1,CMKLR1,MP10,CXCL6,FOXF1,HAND2,FERMT3,SEMA3C,DRD1,DL4,PODXL,WNT5A,NTRK2,RGCC,L1CAM,VASH1,SHROOM2,CXCL1,TFAP2A,CELSR1,THBS4,ARAP3,MCTP1,CD9,CELSR2,PLPP1,PLPP3,EGR1,EGR3,CLEC14A,CD74,EMX2,TA,CSTD2,IL6,SEMA3E
GO: Biological Process	GO:0014706	striated muscle tissue development	4.99E-05	19	471	ACTC1,SOX8,CCN4,ALDH1A2,HOXD9,HOXD10,KLF5,PITX1,COL14A1,TBX2,TBX3,SEMA3C,DLL4,FOS,WNT5A,HOTTIP,ZFPM2,HEYL,EGR1

GO: Biological Process	GO:0048589	developmental growth	5.02E-05	27	821	SOX10,HHEX,EREG,TSHR,CCN4,CADM1,HOXD11,HOXD13,KLF5,DIO3,PLAG1,COL14A1,TBX2,SHANK1,COL7A1,S EMA3C,ATF5,WNT5A,L1CAM,APBA2,PKDCC,AR,ZFPM2,HMGA2,CD9,EN1,SEMA3E
GO: Biological Process	GO:0050768	negative regulation of neurogenesis	5.08E-05	16	353	EPHB2,SOX10,SOX8,PRAG1,STX1B,PTPRZ1,NTM,DIO3,NOTCH3,SEMA3C,ATF5,WNT5A,ID3,HMGA2,IL6,SEMA3E
GO: Biological Process	GO:2000147	positive regulation of cell motility	5.41E-05	23	644	PCSK5,PDGFB,DAPK2,F2RL1,F7,ADORA2B,CCN4,SRPX2,PTPRZ1,CMKLR1,FOXF1,FERMT3,SEMA3C,DRD1,PODXL, WNT5A,TFAP2A,THBS4,PLPP3,EGR1,CD74,IL6,SEMA3E
GO: Biological Process	GO:0014031	mesenchymal cell development	5.50E-05	8	93	SOX10,SOX8,ALDH1A2,HAND2,SEMA3C,TFAP2A,HEYL,SEMA3E
GO: Biological Process	GO:0051270	regulation of cellular component movement	6.27E-05	35	1219	PCSK5,EREG,PDGFB,DAPK2,F2RL1,PRAG1,F7,ADORA2B,CCN4,SRPX2,PTPRZ1,CMKLR1,MMP10,FOXF1,FERMT3,S EMA3C,DRD1,TRIM58,DLL4,PODXL,WNT5A,RGCC,VASH1,ARMC4,TFAP2A,THBS4,ARAP3,MCTP1,CD9,PLPP3,EGR 1,CD74,TACSTD2,IL6,SEMA3E
GO: Biological Process	GO:2000145	regulation of cell motility	6.31E-05	33	1120	PCSK5,EREG,PDGFB,DAPK2,F2RL1,PRAG1,F7,ADORA2B,CCN4,SRPX2,PTPRZ1,CMKLR1,MMP10,FOXF1,FERMT3,S EMA3C,DRD1,DLL4,PODXL,WNT5A,RGCC,VASH1,TFAP2A,THBS4,ARAP3,MCTP1,CD9,PLPP3,EGR1,CD74,TACSTD2 ,IL6,SEMA3E
GO: Biological Process	GO:0072009	nephron epithelium development	6.38E-05	9	122	PDGFB,SOX8,HOXB7,HOXD11,PODXL,TFAP2B,LIF,HEYL,TACSTD2
GO: Biological Process	GO:0002690	positive regulation of leukocyte chemotaxis	6.90E-05	8	96	DAPK2,F2RL1,F7,CMKLR1,WNT5A,THBS4,CD74,IL6
GO: Biological Process	GO:0003407	neural retina development	7.39E-05	7	72	TSpan12,SOX8,SLC17A7,DIO3,DL4,TFAP2A,TFAP2B
GO: Biological Process	GO:0032757	positive regulation of interleukin-8 production	8.34E-05	6	51	F2RL1,AFAP1L2,WNT5A,NLRP10,TLR3,CD74
GO: Biological Process	GO:0003007	heart morphogenesis	8.57E-05	14	293	ACTC1,ALDH1A2,FOXF1,HAND2,TBX2,TBX3,SEMA3C,DL4,WNT5A,TFAP2A,ZFPM2,TGFB3,HEYL,TMEM100
GO: Biological Process	GO:0032642	regulation of chemokine production	8.58E-05	8	99	F2RL1,ADORA2B,CXCL6,WNT5A,EGR1,TLR3,CD74,IL6
GO: Biological Process	GO:0010721	negative regulation of cell development	9.18E-05	17	411	EPHB2,SOX10,SOX8,PRAG1,STX1B,PTPRZ1,NTM,DIO3,NOTCH3,SEMA3C,ATF5,WNT5A,ID3,HMGA2,TACSTD2,IL 6,SEMA3E
GO: Biological Process	GO:0051272	positive regulation of cellular component movement	9.36E-05	23	668	PCSK5,PDGFB,DAPK2,F2RL1,F7,ADORA2B,CCN4,SRPX2,PTPRZ1,CMKLR1,FOXF1,FERMT3,SEMA3C,DRD1,PODXL, WNT5A,TFAP2A,THBS4,PLPP3,EGR1,CD74,IL6,SEMA3E
GO: Biological Process	GO:0110151	positive regulation of biomineralization	1.04E-04	6	53	BMP6,FBN2,GPM6B,PKDCC,TFAP2A,TGFB3
GO: Biological Process	GO:0070169	positive regulation of biomineral tissue development	1.04E-04	6	53	BMP6,FBN2,GPM6B,PKDCC,TFAP2A,TGFB3
GO: Biological Process	GO:0030334	regulation of cell migration	1.06E-04	31	1052	PCSK5,PDGFB,DAPK2,F2RL1,F7,ADORA2B,CCN4,SRPX2,PTPRZ1,CMKLR1,MMP10,FOXF1,FERMT3,SEMA3C,DRD1, DLL4,PODXL,WNT5A,RGCC,VASH1,TFAP2A,THBS4,ARAP3,MCTP1,CD9,PLPP3,EGR1,CD74,TACSTD2,IL6,SEMA3E
GO: Biological Process	GO:0051961	negative regulation of nervous system development	1.06E-04	16	376	EPHB2,SOX10,SOX8,PRAG1,STX1B,PTPRZ1,NTM,DIO3,NOTCH3,SEMA3C,ATF5,WNT5A,ID3,HMGA2,IL6,SEMA3E
GO: Biological Process	GO:0008285	negative regulation of cell population proliferation	1.07E-04	27	859	SOX10,EREG,HLA- DQA1,ETV4,ADORA2B,FAP,ALDH1A2,PTPRZ1,NFIB,NPR1,ATF5,DL4,WNT5A,RGCC,VASH1,WFDC1,RUNX3,CXCL1 ,OGN,TFAP2A,TFAP2B,AR,TGFB3,LIF,CD9,PLPP1,IL6
GO: Biological Process	GO:0040012	regulation of locomotion	1.09E-04	34	1203	PCSK5,EREG,PDGFB,DAPK2,TSHR,F2RL1,PRAG1,F7,ADORA2B,CCN4,SRPX2,PTPRZ1,CMKLR1,MMP10,FOXF1,FER MT3,SEMA3C,DRD1,DL4,PODXL,WNT5A,RGCC,VASH1,TFAP2A,THBS4,ARAP3,MCTP1,CD9,PLPP3,EGR1,CD74,TA CSTD2,IL6,SEMA3E
GO: Biological Process	GO:0040017	positive regulation of locomotion	1.14E-04	23	677	PCSK5,PDGFB,DAPK2,F2RL1,F7,ADORA2B,CCN4,SRPX2,PTPRZ1,CMKLR1,FOXF1,FERMT3,SEMA3C,DRD1,PODXL, WNT5A,TFAP2A,THBS4,PLPP3,EGR1,CD74,IL6,SEMA3E
GO: Biological Process	GO:0019932	second-messenger-mediated signaling	1.19E-04	22	634	TSHR,PTGER2,F2RL1,CHRM3,UCN2,ADORA2B,ADRA1D,HRH2,CMKLR1,GNAZ,ADGRL2,ADGRD1,NPR1,DRD1,GPR 17,NTRK2,L1CAM,LGR5,MCTP1,LAT,TMEM100,PLCE1
GO: Biological Process	GO:0018108	peptidyl-tyrosine phosphorylation	1.19E-04	17	420	EPHB2,IL11,EREG,PDGFB,BMP6,AFAP1L2,PTPRZ1,NTRK2,PKDCC,MST1R,LIF,THBS4,PLPP3,CD74,ROS1,IL6,HCLS 1
GO: Biological Process	GO:0045934	negative regulation of nucleobase-containing compound m	1.22E-04	41	1573	SOX10,HHEX,KLF8,EREG,FOXQ1,PDGFB,NKX3- 2,SOX8,HOXB3,BMP6,HOXB8,HOXD9,NFIB,KLF5,PITX1,LOXL3,HOXB13,FOXF1,NOTCH3,TBX2,TBX15,TBX3,ATF5 ,DLL4,WNT5A,ID3,DUSP15,RUNX3,TFAP2A,TFAP2B,AR,ZFPM2,NFE2L3,HEYL,HMGA2,EGR1,EMX2,EN1,PRDM6, GLIS1,HCLS1
GO: Biological Process	GO:0051046	regulation of secretion	1.26E-04	29	964	IL11,SYTL2,F2RL1,STX1B,UCN2,ADORA2B,CCN4,BMP6,CADM1,KNNA4,HRH2,FOXF1,NPR1,DRD1,WNT5A,NTRK2 ,RGCC,NTSR1,APBA2,SYT7,TFAP2B,TGFB3,LIF,CELSR1,NLRP10,HMGA2,MCTP1,CD74,IL6
GO: Biological Process	GO:0032940	secretion by cell	1.27E-04	43	1682	IL11,PCSK5,PDGFB,SYTL2,TOR4A,F2RL1,STX1B,UCN2,FGL2,ADORA2B,CCN4,BMP6,CADM1,SLC17A7,KNNA4,FA M3C,FOXF1,FERMT3,CRISPLD2,EXOC6,TBX3,DRD1,ANK1,WNT5A,NTRK2,RGCC,RAB11FIP2,NTSR1,APBA2,CXCL1, SYT7,TFAP2B,TGFB3,LIF,CELSR1,NLRP10,HMGA2,MCTP1,CD9,LAT,SLC16A2,CTSBB,IL6
GO: Biological Process	GO:0018212	peptidyl-tyrosine modification	1.30E-04	17	423	EPHB2,IL11,EREG,PDGFB,BMP6,AFAP1L2,PTPRZ1,NTRK2,PKDCC,MST1R,LIF,THBS4,PLPP3,CD74,ROS1,IL6,HCLS 1
GO: Biological Process	GO:0072189	ureter development	1.32E-04	4	19	SOX8,ALDH1A2,FOXF1,EMX2

GO: Biological Process	GO:1901342	regulation of vasculature development	1.32E-04	18	465	TSPAN12,HHEX,PDGFB,SRPX2,KLF5,NPR1,DLL4,WNT5A,RGCC,VASH1,LIF,THBS4,HMGA2,EGR1,TLR3,TMEM100,IL6,SEMA3E
GO: Biological Process	GO:0048534	hematopoietic or lymphoid organ development	1.33E-04	31	1065	IL11,HHEX,PDGFB,HLA-DQA1,NKX3-2,TSHR,F2RL1,FGL2,CCN4,HOXB3,HOXB7,HOXB8,PTPRZ1,TMEM178A,LOXL3,HAND2,EXOC6,ANK1,TRIM58,DLL4,FOS,WNT5A,RUNX3,LIF,EGR1,EGR3,TLR3,CD74,PRG4,IL6,HCLS1
GO: Biological Process	GO:0008344	adult locomotory behavior	1.39E-04	8	106	TSHR,HOXB8,HOXD9,HOXD10,SCN1A,DRD1,NTSR1,EN1
GO: Biological Process	GO:0032602	chemokine production	1.39E-04	8	106	F2RL1,ADORA2B,CXCL6,WNT5A,EGR1,TLR3,CD74,IL6
GO: Biological Process	GO:0009890	negative regulation of biosynthetic process	1.39E-04	45	1797	SOX10,HHEX,KLF8,EREG,FOXQ1,PDGFB,NKX3-2,SOX8,ADORA2B,HOXB3,BMP6,HOXB8,HOXD9,NFIB,KLF5,PITX1,FAM3C,LOXL3,HOXB13,FOXF1,NOTCH3,TBX2,TBX15,TBX3,ATF5,DLL4,WNT5A,ID3,DUSP15,RUNX3,TFAP2A,TFAP2B,AR,ZFPM2,NFE2L3,HEYL,HMGA2,EGR1,EMX2,EN1,PRG4,PRDM6,GLI1,IL6,HCLS1
GO: Biological Process	GO:0032755	positive regulation of interleukin-6 production	1.58E-04	8	108	EREG,F2RL1,ADORA2B,WNT5A,NLRP10,TLR3,CD74,IL6
GO: Biological Process	GO:0061326	renal tubule development	1.58E-04	8	108	SOX8,HOXB7,HOXD11,LGR5,TFAP2B,LIF,HEYL,TACSTD2
GO: Biological Process	GO:0010558	negative regulation of macromolecule biosynthetic process	1.60E-04	43	1700	SOX10,HHEX,KLF8,EREG,FOXQ1,PDGFB,NKX3-2,SOX8,HOXB3,BMP6,HOXB8,HOXD9,NFIB,KLF5,PITX1,LOXL3,HOXB13,FOXF1,NOTCH3,TBX2,TBX15,TBX3,ATF5,DLL4,WNT5A,ID3,DUSP15,RUNX3,TFAP2A,TFAP2B,AR,ZFPM2,NFE2L3,HEYL,HMGA2,EGR1,EMX2,EN1,PRG4,PRDM6,GLI1,IL6,HCLS1
GO: Biological Process	GO:0007368	determination of left/right symmetry	1.64E-04	9	138	PCSK5,NKX3-2,ALDH1A2,FOXF1,HAND2,TBX2,TBX3,WNT5A,ARMC4
GO: Biological Process	GO:0007416	synapse assembly	1.66E-04	11	203	EPHB2,PDGFB,SRPX2,CADM1,PTPRD,LRFN5,ADGRL2,SHANK1,DRD1,WNT5A,NTRK2
GO: Biological Process	GO:0060322	head development	1.74E-04	27	885	EPHB2,NE5,HHEX,HOXB3,ALDH1A2,NFIB,PITX1,SLC17A7,ADGRL2,NOTCH3,SHANK1,CRISPLD2,TBX3,DRD1,ATF5,WNT5A,NTRK2,ARMC4,SHROOM2,TFAP2A,TGFB3,HMGA2,CD9,CELSR2,KNDC1,EMX2,EN1
GO: Biological Process	GO:0006935	chemotaxis	1.75E-04	23	697	EPHB2,PDGFB,DAPK2,ETV4,F2RL1,F7,GFRA2,CMTM8,ANOS1,NFIB,CMKLR1,KIF5C,CXCL6,SEMA3C,WNT5A,L1CAM,RUNX3,CXCL1,THBS4,EGR3,CD74,IL6,SEMA3E
GO: Biological Process	GO:0031327	negative regulation of cellular biosynthetic process	1.75E-04	44	1761	SOX10,HHEX,KLF8,EREG,FOXQ1,PDGFB,NKX3-2,SOX8,HOXB3,BMP6,HOXB8,HOXD9,NFIB,KLF5,PITX1,FAM3C,LOXL3,HOXB13,FOXF1,NOTCH3,TBX2,TBX15,TBX3,ATF5,DLL4,WNT5A,ID3,DUSP15,RUNX3,TFAP2A,TFAP2B,AR,ZFPM2,NFE2L3,HEYL,HMGA2,EGR1,EMX2,EN1,PRG4,PRDM6,GLI1,IL6,HCLS1
GO: Biological Process	GO:0007507	heart development	1.82E-04	23	699	PCSK5,HHEX,PDGFB,ACTC1,CCN4,ALDH1A2,KLF5,COL14A1,FOXF1,HAND2,TBX2,TBX3,SEMA3C,DLL4,WNT5A,ID3,ARMC4,TFAP2A,ZFPM2,TGFB3,HEYL,TMEM100,PLCE1
GO: Biological Process	GO:0042330	taxis	1.86E-04	23	700	EPHB2,PDGFB,DAPK2,ETV4,F2RL1,F7,GFRA2,CMTM8,ANOS1,NFIB,CMKLR1,KIF5C,CXCL6,SEMA3C,WNT5A,L1CAM,RUNX3,CXCL1,THBS4,EGR3,CD74,IL6,SEMA3E
GO: Biological Process	GO:2000113	negative regulation of cellular macromolecule biosynthetic	1.88E-04	41	1605	SOX10,HHEX,KLF8,EREG,FOXQ1,PDGFB,NKX3-2,SOX8,HOXB3,BMP6,HOXB8,HOXD9,NFIB,KLF5,PITX1,LOXL3,HOXB13,FOXF1,NOTCH3,TBX2,TBX15,TBX3,ATF5,DLL4,WNT5A,ID3,DUSP15,RUNX3,TFAP2A,TFAP2B,AR,ZFPM2,NFE2L3,HEYL,HMGA2,EGR1,EMX2,EN1,PRDM6,GLI1,HCLS1
GO: Biological Process	GO:0032675	regulation of interleukin-6 production	2.04E-04	10	174	EREG,F2RL1,ADORA2B,AFAP1L2,WNT5A,NLRP10,TLR3,CD74,PRG4,IL6
GO: Biological Process	GO:0003206	cardiac chamber morphogenesis	2.04E-04	9	142	FOXF1,HAND2,TBX2,TBX3,SEMA3C,DLL4,WNT5A,ZFPM2,HEYL
GO: Biological Process	GO:0070951	regulation of neutrophil mediated killing of gram-negative b	2.05E-04	2	2	F2RL1,CXCL6
GO: Biological Process	GO:0070950	regulation of neutrophil mediated killing of bacterium	2.05E-04	2	2	F2RL1,CXCL6
GO: Biological Process	GO:1905225	response to thyrotropin-releasing hormone	2.05E-04	2	2	TSHR,F7
GO: Biological Process	GO:0071505	response to mycophenolic acid	2.05E-04	2	2	PDGFB,EGR1
GO: Biological Process	GO:0071506	cellular response to mycophenolic acid	2.05E-04	2	2	PDGFB,EGR1
GO: Biological Process	GO:0060599	lateral sprouting involved in mammary gland duct morphog	2.05E-04	2	2	WNT5A,AR
GO: Biological Process	GO:0019220	regulation of phosphate metabolic process	2.07E-04	48	1994	EPHB2,IL11,HHEX,EREG,PDGFB,SYTL2,GCKR,F2RL1,ELFN2,GFRA2,RAB38,ADORA2B,BMP6,SRPX2,AFAP1L2,PTPRZ1,HAND2,CCNJL,DRD1,WNT5A,NTRK2,RGCC,L1CAM,NTSR1,SAMD5,DUSP15,AR,PPP1R3C,TGFB3,MST1R,LIF,TBBS4,SH2D4A,HMGA2,IAT,PLPP1,PLPP3,EGR1,TMEM132D,SPRY4,TLR3,KNDC1,CD74,ROS1,RSP01,IL6,HCLS1,PLCE1
GO: Biological Process	GO:0060324	face development	2.08E-04	6	60	HOXB3,ALDH1A2,CRISPLD2,WNT5A,TFAP2A,TGFB3
GO: Biological Process	GO:0051174	regulation of phosphorus metabolic process	2.09E-04	48	1995	EPHB2,IL11,HHEX,EREG,PDGFB,SYTL2,GCKR,F2RL1,ELFN2,GFRA2,RAB38,ADORA2B,BMP6,SRPX2,AFAP1L2,PTPRZ1,HAND2,CCNJL,DRD1,WNT5A,NTRK2,RGCC,L1CAM,NTSR1,SAMD5,DUSP15,AR,PPP1R3C,TGFB3,MST1R,LIF,TBBS4,SH2D4A,HMGA2,IAT,PLPP1,PLPP3,EGR1,TMEM132D,SPRY4,TLR3,KNDC1,CD74,ROS1,RSP01,IL6,HCLS1,PLCE1
GO: Biological Process	GO:0048863	stem cell differentiation	2.17E-04	13	282	SOX10,HHEX,ETV4,SOX8,ALDH1A2,HAND2,TBX2,SEMA3C,TFAP2A,LIF,HMGA2,TACSTD2,SEMA3E
GO: Biological Process	GO:0140352	export from cell	2.34E-04	43	1730	IL11,PCSK5,PDGFB,SYTL2,TOR4A,F2RL1,STX1B,UCN2,FGL2,ADORA2B,CCN4,BMP6,CADM1,SLC17A7,KCNN4,FAM3C,FOXF1,FERMT3,CRISPLD2,EXOC6,TBX3,DRD1,ANK1,WNT5A,NTRK2,RGCC,RAB11FIP2,NTSR1,APBA2,CXCL1,SYT7,TFAP2B,TGFB3,LIF,CELSR1,NLRP10,HMGA2,MCTP1,CD9,IAT,SLC16A2,CTS8,IL6

GO: Biological Process	GO:0060042	retina morphogenesis in camera-type eye	2.50E-04	6	62	TSPAN12,MAN2A1,SOX8,DIO3,TFAP2A,TFAP2B
GO: Biological Process	GO:0014032	neural crest cell development	2.62E-04	7	88	SOX10,SOX8,ALDH1A2,HAND2,SEMA3C,TFAP2A,SEMA3E
GO: Biological Process	GO:0035270	endocrine system development	2.64E-04	9	147	HHEX,HOXB3,BMP6,ALDH1A2,HOXD3,PITX1,WNT5A,HMGA2,IL6
GO: Biological Process	GO:0022407	regulation of cell-cell adhesion	2.69E-04	17	450	HLA-DQA1,FGL2,BMP6,LOXL3,FERMT3,PODXL,WNT5A,RGCC,L1CAM,RUNX3,CD9,CELSR2,PLPP3,EGR3,CD70,CD74,IL6
GO: Biological Process	GO:0045444	fat cell differentiation	2.71E-04	12	251	IL11,SOX8,CCN4,KLF5,CMKLR1,ATF5,WNT5A,TFAP2B,ZFPM2,HMGA2,GLIS1,IL6
GO: Biological Process	GO:0090183	regulation of kidney development	2.73E-04	6	63	PDGFB,SOX8,HOXB7,LIF,EGR1,TACSTD2
GO: Biological Process	GO:0009855	determination of bilateral symmetry	2.78E-04	9	148	PCSK5,NKX3-2,ALDH1A2,FOXF1,HAND2,TBX2,TBX3,WNT5A,ARMC4
GO: Biological Process	GO:0007189	adenylate cyclase-activating G protein-coupled receptor sig	2.78E-04	9	148	TSHR,PTGER2,UCN2,ADORA2B,ADRA10,ADGRL2,ADGRD1,DRD1,LGR5
GO: Biological Process	GO:0031076	embryonic camera-type eye development	2.79E-04	5	41	NES,ALDH1A2,TBX2,WNT5A,TFAP2A
GO: Biological Process	GO:0043588	skin development	2.83E-04	17	452	EREG,FOXQ1,FRAS1,KRT18,KRT19,WNT5A,RUNX3,LGR5,EDA,TFAP2A,TFAP2B,KRT23,CELSR1,KRTAP1-5,KRTAP1-1,KRT38,KRT36
GO: Biological Process	GO:0009799	specification of symmetry	2.92E-04	9	149	PCSK5,NKX3-2,ALDH1A2,FOXF1,HAND2,TBX2,TBX3,WNT5A,ARMC4
GO: Biological Process	GO:0031016	pancreas development	3.01E-04	7	90	HHEX,NKX3-2,BMP6,ALDH1A2,FOXF1,WNT5A,IL6
GO: Biological Process	GO:0110111	negative regulation of animal organ morphogenesis	3.13E-04	5	42	NFIB,DIO3,TBX2,WNT5A,TACSTD2
GO: Biological Process	GO:0030097	hemopoiesis	3.15E-04	29	1018	IL11,HHEX,PDGFB,HLA-DQA1,TSHR,F2RL1,FGL2,CCN4,HOXB3,HOXB7,HOXB8,PTPRZ1,TMEM178A,LOXL3,EXOC6,ANK1,TRIM58,DLL4,FOS,WNT5A,RUNX3,LIF,EGR1,EGR3,TLR3,CD74,PRG4,IL6,HCLS1
GO: Biological Process	GO:0032635	interleukin-6 production	3.19E-04	10	184	EREG,F2RL1,ADORA2B,AFAP1L2,WNT5A,NLRP10,TLR3,CD74,PRG4,IL6
GO: Biological Process	GO:0050921	positive regulation of chemotaxis	3.22E-04	9	151	PDGFB,DAPK2,F2RL1,F7,CMKLR1,WNT5A,THBS4,CD74,IL6
GO: Biological Process	GO:0010712	regulation of collagen metabolic process	3.24E-04	6	65	PDGFB,ADORA2B,FAP,RGCC,TGFB3,IL6
GO: Biological Process	GO:0043583	ear development	3.25E-04	12	256	EPHB2,EYA4,NKX3-2,TSHR,USH2A,SOBP,WNT5A,LGR5,SHROOM2,TFAP2A,TGFB3,CELSR1
GO: Biological Process	GO:0000904	cell morphogenesis involved in differentiation	3.26E-04	26	872	EPHB2,ETV4,ITGB7,GFRA2,NEFM,ANOS1,PTPRD,PTPRZ1,NFIB,HRH2,COL14A1,KIF5C,FERMT3,SHANK1,COL7A1,SEMA3C,WNT5A,NTRK2,L1CAM,RUNX3,AR,COL23A1,CELSR2,KNDC1,TACSTD2,SEMA3E
GO: Biological Process	GO:0001667	ameboid-type cell migration	3.28E-04	18	501	SOX10,PDGFB,SOX8,ITGB7,ADORA2B,FAP,SRPX2,HAND2,SEMA3C,DLL4,WNT5A,RGCC,VASH1,PLPP3,EGR3,CLEC14A,TACSTD2,SEMA3E
GO: Biological Process	GO:0021953	central nervous system neuron differentiation	3.32E-04	11	220	EPHB2,HOXC10,HOXD10,NFIB,DRD1,ATF5,DLL4,WNT5A,NTRK2,TFAP2A,KNDC1
GO: Biological Process	GO:0046661	male sex differentiation	3.33E-04	10	185	SOX8,BMP6,HOXD13,TBX3,COL9A3,WNT5A,AR,ZFPM2,HMGA2,TLR3
GO: Biological Process	GO:0030155	regulation of cell adhesion	3.35E-04	24	777	PCSK5,HLA-DQA1,FGL2,BMP6,CORO2B,PTPRZ1,LOXL3,FOXF1,FERMT3,GPM6B,PODXL,WNT5A,RGCC,L1CAM,RUNX3,CD9,CELSR2,PLPP3,EGR3,CD70,CD74,TACSTD2,IL6,SEMA3E
GO: Biological Process	GO:0007167	enzyme linked receptor protein signaling pathway	3.40E-04	31	1124	EPHB2,HHEX,EREG,PDGFB,F7,GFRA2,BMP6,ANOS1,AFAP1L2,FBN2,PTPRD,CHRD1,FGF5,NPR1,FOS,WNT5A,NTRK2,DUSP15,ANGPTL1,TFAP2A,TFAP2B,AR,TGFB3,MST1R,LIF,LAT,EGR1,SPRY4,ROS1,TMEM100,PLCE1
GO: Biological Process	GO:0051151	negative regulation of smooth muscle cell differentiation	3.42E-04	4	24	EREG,PDGFB,KLF5,PRDM6
GO: Biological Process	GO:0050730	regulation of peptidyl-tyrosine phosphorylation	3.47E-04	13	296	IL11,EREG,PDGFB,BMP6,AFAP1L2,PTPRZ1,NTRK2,LIF,THBS4,PLPP3,CD74,IL6,HCLS1
GO: Biological Process	GO:0060688	regulation of morphogenesis of a branching structure	3.52E-04	6	66	SOX8,HOXB7,HOXD13,WNT5A,AR,TACSTD2
GO: Biological Process	GO:0002520	immune system development	3.56E-04	31	1127	IL11,HHEX,PDGFB,HLA-DQA1,NKX3-2,TSHR,F2RL1,FGL2,CCN4,HOXB3,HOXB7,HOXB8,PTPRZ1,TMEM178A,LOXL3,HAND2,EXOC6,ANK1,TRIM58,DLL4,FOS,WNT5A,RUNX3,LIF,EGR1,EGR3,TLR3,CD74,PRG4,IL6,HCLS1
GO: Biological Process	GO:0050680	negative regulation of epithelial cell proliferation	3.63E-04	10	187	EREG,ETV4,NFIB,DLL4,WNT5A,RGCC,VASH1,WFDC1,RUNX3,AR
GO: Biological Process	GO:0007420	brain development	3.66E-04	25	830	EPHB2,NES,HHEX,HOXB3,ALDH1A2,NFIB,PITX1,SLC17A7,ADGRL2,NOTCH3,SHANK1,TBX3,DRD1,ATF5,WNT5A,NTRK2,ARMC4,SHROOM2,TFAP2A,HMGA2,CD9,CELSR2,KNDC1,EMX2,EN1
GO: Biological Process	GO:0009967	positive regulation of signal transduction	3.72E-04	44	1823	EPHB2,IL11,PCSK5,HHEX,EREG,MAOA,PDGFB,F2RL1,PRAG1,F7,STX1B,ADORA2B,CCN4,BMP6,AFAP1L2,CKNNA4,FGF5,LOXL3,HAND2,SHANK1,NPR1,GPR17,DLL4,WNT5A,NTRK2,L1CAM,NTRSR1,SAMD5,DUSP15,RUNX3,LGR5,EDA,AR,TGFB3,MST1R,LIF,LAT,TLR3,CD74,IGSF9B,RSPO1,IL6,HCLS1,PLCE1
GO: Biological Process	GO:0060425	lung morphogenesis	3.82E-04	6	67	HHEX,NFIB,FOXF1,LIF,CELSR1,HMGA2
GO: Biological Process	GO:0002688	regulation of leukocyte chemotaxis	3.85E-04	8	123	DAPK2,F2RL1,F7,CMKLR1,WNT5A,THBS4,CD74,IL6
GO: Biological Process	GO:0048864	stem cell development	3.94E-04	7	94	SOX10,SOX8,ALDH1A2,HAND2,SEMA3C,TFAP2A,SEMA3E
GO: Biological Process	GO:0048708	astrocyte differentiation	4.20E-04	7	95	SOX8,DRD1,ATF5,LIF,HMGA2,PLPP3,IL6
GO: Biological Process	GO:0009719	response to endogenous stimulus	4.23E-04	44	1834	SOX10,HHEX,EREG,PDGFB,PENK,TSHR,PTGER2,CHRM3,F7,UCN2,BMP6,ANOS1,ALDH1A2,FBN2,HOXD13,KLF5,CHRD1,FGF5,HRH2,HOXB13,ALPL,DRD1,DLL4,FOS,WNT5A,NTRK2,WFDC1,DUSP15,RUNX3,LGR5,TFAP2B,AR,TGFB3,HEYL,HMGA2,CD9,PLPP1,EGR1,EGR3,SPRY4,CTS8,TMEM100,IL6,HCLS1
GO: Biological Process	GO:1905330	regulation of morphogenesis of an epithelium	4.29E-04	10	191	SOX8,HOXB7,HOXD13,TBX2,WNT5A,AR,LIF,CELSR1,CELSR2,TACSTD2
GO: Biological Process	GO:0072073	kidney epithelium development	4.29E-04	9	157	PDGFB,SOX8,HOXB7,HOXD11,PODXL,TFAP2B,LIF,HEYL,TACSTD2

GO: Biological Process	GO:0045664	regulation of neuron differentiation	4.33E-04	24	791	EPHB2,SOX8,PRAG1,STX1B,NEFM,BMP6,PTPRD,HOXD3,PTPRZ1,NTM,DIO3,NOTCH3,SHANK1,SEMA3C,WNT5A,NTRK2,L1CAM,ID3,TFAP2A,LIF,HEYL,KNDC1,IL6,SEMA3E
GO: Biological Process	GO:0099545	trans-synaptic signaling by trans-synaptic complex	4.34E-04	3	11	EPHB2,CADM1,PTPRD
GO: Biological Process	GO:0060548	negative regulation of cell death	4.35E-04	32	1192	IL11,SOX10,NEF, EYA4,FOXQ1,RP56KA1,NKX3-2,ACTC1,SOX8,CCN4,PTPRZ1,HAND2, TBX3,DRD1,ATF5,KRT18,WNT5A,NTRK2,NTSR1,TFAP2A,TFAP2B,AR,ZFPM2,TGFB3,HMGA2,EGR3,CD74,EN1,CTSB,IL6,HCLS1,FCMR
GO: Biological Process	GO:0008544	epidermis development	4.44E-04	18	514	EREG,FOXQ1,USH2A,HOXB13,COL7A1,KRT18,KRT19,WNT5A,RUNX3,LGR5,EDA,TFAP2A,KRT23,CELSR1,KRTAP1-5,KRTAP1-1,KRT38,KRT36
GO: Biological Process	GO:0003205	cardiac chamber development	4.47E-04	10	192	PCSK5,FOXF1,HAND2, TBX2, TBX3,SEMA3C, DLL4,WNT5A,ZFPM2,HEYL
GO: Biological Process	GO:0021954	central nervous system neuron development	4.47E-04	7	96	EPHB2,NFIB,DRD1,ATF5,WNT5A,NTRK2,TFAP2A
GO: Biological Process	GO:0014013	regulation of gliogenesis	4.50E-04	9	158	SOX10,SOX8,PTPRZ1,PLAG1,ATF5,DUSP15,LIF,HMGA2,IL6
GO: Biological Process	GO:0007187	G protein-coupled receptor signaling pathway, coupled to c	4.58E-04	12	266	TSHR,PTGER2,CHRM3,UCN2,ADORA2B,ADRA1D,HRH2,GNAZ,ADGRL2,ADGRD1,DRD1,LGR5
GO: Biological Process	GO:0030539	male genitalia development	4.71E-04	4	26	BMP6,HOXD13, TBX3,AR
GO: Biological Process	GO:0048608	reproductive structure development	4.75E-04	18	517	EREG,PDGFB,SOX8,BMP6,HOXD13,PLAG1,HOXB13, TBX3,COL9A3,KRT19,WNT5A,VASH1,AR,ZFPM2,LIF,HMGA2,TLR3,CTSB
GO: Biological Process	GO:0014033	neural crest cell differentiation	4.76E-04	7	97	SOX10,SOX8,ALDH1A2,HAND2,SEMA3C,TFAP2A,SEMA3E
GO: Biological Process	GO:0060349	bone morphogenesis	4.77E-04	8	127	BMP6,HOXD11,COL14A1,ALPL,COL7A1,HOTTIP,TFAP2A,TGFB3
GO: Biological Process	GO:0090184	positive regulation of kidney development	4.81E-04	5	46	PDGFB,SOX8,HOXB7,LIF,EGR1
GO: Biological Process	GO:0032722	positive regulation of chemokine production	4.84E-04	6	70	ADORA2B,WNT5A,EGR1,TLR3,CD74,IL6
GO: Biological Process	GO:0001936	regulation of endothelial cell proliferation	4.85E-04	10	194	PDGFB,ADORA2B,BMP6,ALDH1A2, DLL4,WNT5A,RGCC,VASH1,THBS4,EGR3
GO: Biological Process	GO:0007190	activation of adenylate cyclase activity	4.93E-04	9	160	TSHR,PTGER2,UCN2,ADORA2B,ADRA1D,ADGRL2,ADGRD1,DRD1,LGR5
GO: Biological Process	GO:0051588	regulation of neurotransmitter transport	5.05E-04	10	195	STX1B,ADORA2B,GPM6B,DRD1,NTRK2,NTSR1,APBA2,SYT7,CELSR1,MCTP1
GO: Biological Process	GO:0007188	adenylate cyclase-modulating G protein-coupled receptor s	5.20E-04	11	232	TSHR,PTGER2,CHRM3,UCN2,ADORA2B,ADRA1D,GNAZ,ADGRL2,ADGRD1,DRD1,LGR5
GO: Biological Process	GO:0061458	reproductive system development	5.20E-04	18	521	EREG,PDGFB,SOX8,BMP6,HOXD13,PLAG1,HOXB13, TBX3,COL9A3,KRT19,WNT5A,VASH1,AR,ZFPM2,LIF,HMGA2,TLR3,CTSB
GO: Biological Process	GO:0032835	glomerulus development	5.23E-04	6	71	PDGFB,NOTCH3,PODXL,HEYL,EGR1,PLCE1
GO: Biological Process	GO:0045665	negative regulation of neuron differentiation	5.41E-04	12	271	EPHB2,SOX8,PRAG1,STX1B,PTPRZ1,NTM,DIO3,NOTCH3,SEMA3C,WNT5A,ID3,SEMA3E
GO: Biological Process	GO:0009611	response to wounding	5.48E-04	23	756	HHEX,EREG,PDGFB,F2RL1,F7,CCN4,FAP,KLF5,HOXB13,FOXF1,FERMT3,PROCR,WNT5A,VASH1,ID3,WFDC1,SYT7,ZFPM2,TGFB3,CELSR1,CD9,PLPP3,IL6
GO: Biological Process	GO:0008015	blood circulation	5.55E-04	20	615	EPHX2,PCSK5,PDGFB,ACTC1,PTGER2,F2RL1,CHRM3,ADORA2B,BMP6,ADRA1D,CORO2B,SCN1A,HRH2, TBX2,NPR1,DRD1, DLL4,NTSR1,AR,CACNA2D3
GO: Biological Process	GO:0042733	embryonic digit morphogenesis	5.63E-04	6	72	HOXD11,HOXD13,HAND2, TBX2, TBX3,WNT5A
GO: Biological Process	GO:0048483	autonomic nervous system development	5.88E-04	5	48	SOX10,SOX8,HAND2,TFAP2A,TFAP2B
GO: Biological Process	GO:0050920	regulation of chemotaxis	5.99E-04	11	236	PDGFB,DAPK2,F2RL1,F7,CMKLR1,SEMA3C,WNT5A,THBS4,CD74,IL6,SEMA3E
GO: Biological Process	GO:0070949	regulation of neutrophil mediated killing of symbiont cell	6.01E-04	2	3	F2RL1,CXCL6
GO: Biological Process	GO:0045105	intermediate filament polymerization or depolymerization	6.01E-04	2	3	NEF,NEFM
GO: Biological Process	GO:0097325	melanocyte proliferation	6.01E-04	2	3	FAP,WNT5A
GO: Biological Process	GO:0035264	multicellular organism growth	6.15E-04	10	200	HHEX,TSHR,DIO3,PLAG1,ATF5,APBA2,PKDCC,AR,HMGA2,EN1
GO: Biological Process	GO:0030278	regulation of ossification	6.21E-04	11	237	CCN4,BMP6,FBN2,HAND2,GPM6B,WNT5A,PKDCC,ID3,TFAP2A,TGFB3,IL6
GO: Biological Process	GO:0106030	neuron projection fasciculation	6.30E-04	4	28	EPHB2,PTPRZ1,WNT5A,L1CAM
GO: Biological Process	GO:0007413	axonal fasciculation	6.30E-04	4	28	EPHB2,PTPRZ1,WNT5A,L1CAM
GO: Biological Process	GO:0032963	collagen metabolic process	6.48E-04	8	133	PDGFB,ADORA2B,FAP,MMP10,RGCC,TGFB3,CTSB,IL6
GO: Biological Process	GO:0003013	circulatory system process	6.65E-04	20	624	EPHX2,PCSK5,PDGFB,ACTC1,PTGER2,F2RL1,CHRM3,ADORA2B,BMP6,ADRA1D,CORO2B,SCN1A,HRH2, TBX2,NPR1,DRD1, DLL4,NTSR1,AR,CACNA2D3
GO: Biological Process	GO:0001503	ossification	6.75E-04	16	444	PENK,SOX8,CCN4,BMP6,FBN2,CHRD1,HAND2,ALPL,GPM6B,WNT5A,PKDCC,ID3,TFAP2A,TGFB3,GLIS1,IL6
GO: Biological Process	GO:0060571	morphogenesis of an epithelial fold	7.23E-04	4	29	HHEX,HOXD13,WNT5A,AR
GO: Biological Process	GO:0060444	branching involved in mammary gland duct morphogenesis	7.23E-04	4	29	ETV4, TBX3,WNT5A,AR
GO: Biological Process	GO:0003071	renal system process involved in regulation of systemic arte	7.23E-04	4	29	PCSK5,PDGFB,F2RL1,CORO2B
GO: Biological Process	GO:0072080	nephron tubule development	7.24E-04	7	104	SOX8,HOXB7,HOXD11,TFAP2B,LIF,HEYL,TACSTD2
GO: Biological Process	GO:0007494	midgut development	7.36E-04	3	13	ALDH1A2,FOXF1,WNT5A
GO: Biological Process	GO:0060601	lateral sprouting from an epithelium	7.36E-04	3	13	WNT5A,AR,CELSR1
GO: Biological Process	GO:0003093	regulation of glomerular filtration	7.36E-04	3	13	PDGFB,F2RL1,CORO2B
GO: Biological Process	GO:0032677	regulation of interleukin-8 production	7.52E-04	6	76	F2RL1,AFAP1L2,WNT5A,NLRP10,TLR3,CD74
GO: Biological Process	GO:0048645	animal organ formation	7.52E-04	6	76	HHEX,NKX3-2,HOXD11,HAND2,WNT5A,AR
GO: Biological Process	GO:0030595	leukocyte chemotaxis	7.63E-04	11	243	PDGFB,DAPK2,F2RL1,F7,CMKLR1,CXCL6,WNT5A,CXCL1,THBS4,CD74,IL6

GO: Biological Process	GO:0003197	endocardial cushion development	7.79E-04	5	51	FOXF1,TBX2,TGFB3,HEY1, TMEM100
GO: Biological Process	GO:1901343	negative regulation of vasculature development	8.02E-04	10	207	HHEX,PDGFB,KLF5,NPR1, DLL4, RGCC, VASH1, LIF, THBS4, SEMA3E
GO: Biological Process	GO:0007162	negative regulation of cell adhesion	8.08E-04	13	324	HLA-DQA1, FGL2, BMP6, CORO2B, PTPRZ1, LOXL3, PODXL, RGCC, RUNX3, CD9, CD74, TACSTD2, SEMA3E
GO: Biological Process	GO:0061035	regulation of cartilage development	8.63E-04	6	78	NKX3-2, CCN4, BMP6, HOXD11, WNT5A, PKDCC
GO: Biological Process	GO:0002521	leukocyte differentiation	8.71E-04	19	591	IL11, HHEX, HLA-DQA1, TSHR, F2RL1, FGL2, CCN4, TMEM178A, LOXL3, DLL4, FOS, RUNX3, LIF, EGR1, EGR3, TLR3, CD74, IL6, HCLS1
GO: Biological Process	GO:0001935	endothelial cell proliferation	8.95E-04	10	210	PDGFB, ADORA2B, BMP6, ALDH1A2, DLL4, WNT5A, RGCC, VASH1, THBS4, EGR3
GO: Biological Process	GO:0003014	renal system process	9.07E-04	8	140	PCSK5, PDGFB, F2RL1, ADRA1D, CORO2B, NPR1, RAB11FIP2, TFAP2B
GO: Biological Process	GO:0001932	regulation of protein phosphorylation	9.18E-04	39	1625	EPHB2, IL11, HHEX, EREG, PDGFB, F2RL1, GFRA2, ADORA2B, BMP6, AFAP1L2, PTPRZ1, HAND2, CCNJL, DRD1, WNT5A, NTRK2, RGCC, L1CAM, SAMD5, DUSP15, AR, TGFB3, MST1R, LIF, THBS4, HMGA2, LAT, PLPP1, PLPP3, EGR1, SPRY4, TLR3, KND1, CD74, ROS1, RSP01, IL6, HCLS1, PLCE1
GO: Biological Process	GO:0042108	positive regulation of cytokine biosynthetic process	9.23E-04	6	79	EREG, WNT5A, EGR1, TLR3, CD74, IL6
GO: Biological Process	GO:0003208	cardiac ventricle morphogenesis	9.23E-04	6	79	FOXF1, HAND2, SEMA3C, DLL4, ZFPM2, HEYL
GO: Biological Process	GO:0072216	positive regulation of metanephros development	9.27E-04	3	14	PDGFB, LIF, EGR1
GO: Biological Process	GO:0050878	regulation of body fluid levels	9.30E-04	18	548	EPHB2, PDGFB, SYTL2, F2RL1, CHRM3, F7, FAP, CORO2B, KCNN4, FERMT3, NPR1, PROCR, RAB11FIP2, TFAP2B, ZFPM2, CD9, CELSR2, IL6
GO: Biological Process	GO:0021602	cranial nerve morphogenesis	9.37E-04	4	31	EPHB2, HOXB3, HOXD3, TFAP2A
GO: Biological Process	GO:0099560	synaptic membrane adhesion	9.37E-04	4	31	CADM1, PTPRD, LRFN5, IGSF9B
GO: Biological Process	GO:0042471	ear morphogenesis	9.50E-04	8	141	EPHB2, EYA4, NKX3-2, TSHR, SOBP, WNT5A, TFAP2A, CELSR1
GO: Biological Process	GO:0045761	regulation of adenylate cyclase activity	9.62E-04	11	250	TSHR, PTGER2, CHRM3, UCN2, ADORA2B, ADRA1D, GNAZ, ADGRL2, ADGRD1, DRD1, LGR5
GO: Biological Process	GO:0021700	developmental maturation	1.04E-03	13	333	SOX10, EREG, PDGFB, SOX8, RAB38, ZDHHC15, ALDH1A2, SLC17A7, HOXB13, SHANK1, TRIM58, WNT5A, RUNX3
GO: Biological Process	GO:0031646	positive regulation of nervous system process	1.05E-03	6	81	SOX10, STX1B, SHANK1, NTSR1, IGSF9B, IL6
GO: Biological Process	GO:0043066	negative regulation of apoptotic process	1.07E-03	28	1048	IL11, SOX10, NES, EYA4, FOXQ1, RPS6KA1, NKX3-2, ACTC1, SOX8, PTPRZ1, HAND2, TBX3, ATF5, KRT18, WNT5A, NTRK2, NTSR1, TFAP2A, TFAP2B, AR, TGFB3, HMGA2, EGR3, CD74, EN1, IL6, HCLS1, FCMR
GO: Biological Process	GO:0042089	cytokine biosynthetic process	1.09E-03	8	144	PCSK5, EREG, WNT5A, EGR1, TLR3, CD74, PRG4, IL6
GO: Biological Process	GO:0003231	cardiac ventricle development	1.09E-03	8	144	FOXF1, HAND2, TBX3, SEMA3C, DLL4, WNT5A, ZFPM2, HEYL
GO: Biological Process	GO:0048806	genitalia development	1.10E-03	5	55	BMP6, HOXD13, TBX3, WNT5A, AR
GO: Biological Process	GO:0032330	regulation of chondrocyte differentiation	1.10E-03	5	55	NKX3-2, CCN4, BMP6, HOXD11, PKDCC
GO: Biological Process	GO:0003073	regulation of systemic arterial blood pressure	1.12E-03	7	112	PCSK5, PDGFB, F2RL1, ADRA1D, CORO2B, NTSR1, AR
GO: Biological Process	GO:0060411	cardiac septum morphogenesis	1.12E-03	6	82	TBX2, TBX3, SEMA3C, WNT5A, ZFPM2, HEYL
GO: Biological Process	GO:1903530	regulation of secretion by cell	1.13E-03	25	898	IL11, F2RL1, STX1B, UCN2, ADORA2B, CCN4, BMP6, CADM1, KCNN4, FOXF1, DRD1, WNT5A, NTRK2, RGCC, NTSR1, APBA2, SYT7, TFAP2B, TGFB3, LIF, CELSR1, NLRP10, HMGA2, MCTP1, IL6
GO: Biological Process	GO:0046928	regulation of neurotransmitter secretion	1.14E-03	8	145	STX1B, ADORA2B, DRD1, NTRK2, APBA2, SYT7, CELSR1, MCTP1
GO: Biological Process	GO:0003018	vascular process in circulatory system	1.15E-03	10	217	EPHX2, PDGFB, F2RL1, CHRM3, ADORA2B, BMP6, ADRA1D, HRH2, NPR1, DRD1
GO: Biological Process	GO:0048709	oligodendrocyte differentiation	1.18E-03	7	113	SOX10, SOX8, PTPRZ1, GPR17, NTRK2, DUSP15, CD9
GO: Biological Process	GO:0042107	cytokine metabolic process	1.19E-03	8	146	PCSK5, EREG, WNT5A, EGR1, TLR3, CD74, PRG4, IL6
GO: Biological Process	GO:0001701	in utero embryonic development	1.19E-03	17	514	SOX10, HHEX, MAN2A1, PDGFB, SOX8, STMN3, FOXF1, HAND2, TBX3, KRT19, VASH1, APBA2, AR, ZFPM2, TGFB3, LIF, T
GO: Biological Process	GO:0072262	metanephric glomerular mesangial cell proliferation involve	1.19E-03	2	4	MEM100
GO: Biological Process	GO:0060596	mammary placode formation	1.19E-03	2	4	PDGFB, EGR1
GO: Biological Process	GO:0003104	positive regulation of glomerular filtration	1.19E-03	2	4	TBX2, TBX3
GO: Biological Process	GO:0036146	cellular response to mycotoxin	1.19E-03	2	4	PDGFB, F2RL1
GO: Biological Process	GO:0021615	glossopharyngeal nerve morphogenesis	1.19E-03	2	4	PDGFB, EGR1
GO: Biological Process	GO:0099538	synaptic signaling via neuropeptide	1.19E-03	2	4	HOXB3, HOXD3
GO: Biological Process	GO:0060740	prostate gland epithelium morphogenesis	1.19E-03	4	33	PENK, NTRK2
GO: Biological Process	GO:0090130	tissue migration	1.20E-03	14	381	HOXD13, HOXB13, WNT5A, AR
GO: Biological Process	GO:0023061	signal release	1.24E-03	18	562	PDGFB, ACTC1, ADORA2B, FAP, SRPX2, FOXF1, DLL4, WNT5A, RGCC, VASH1, PLPP3, EGR3, CLEC14A, TACSTD2
GO: Biological Process	GO:0019935	cyclic-nucleotide-mediated signaling	1.25E-03	13	340	IL11, STX1B, UCN2, ADORA2B, BMP6, TBX3, DRD1, NTRK2, RAB11FIP2, APBA2, SYT7, TFAP2B, LIF, CELSR1, HMGA2, MCTP1, SLC16A2, IL6
GO: Biological Process	GO:0031401	positive regulation of protein modification process	1.27E-03	34	1379	TSHR, PTGER2, CHRM3, UCN2, ADORA2B, ADRA1D, HRH2, GNAZ, ADGRL2, ADGRD1, NPR1, DRD1, LGR5
GO: Biological Process	GO:0032637	interleukin-8 production	1.27E-03	6	84	EPHB2, IL11, EREG, PDGFB, F2RL1, GFRA2, ADORA2B, BMP6, AFAP1L2, PTPRZ1, HAND2, DRD1, WNT5A, NTRK2, RGCC, S
GO: Biological Process	GO:0035296	regulation of tube diameter	1.28E-03	9	183	AMDS, DUSP15, AR, TGFB3, MST1R, LIF, THBS4, HMGA2, LAT, PLPP1, PLPP3, EGR1, TLR3, KND1, CD74, RSP01, IL6, HCLS1, PLCE1
GO: Biological Process	GO:0097746	regulation of blood vessel diameter	1.28E-03	9	183	F2RL1, AFAP1L2, WNT5A, NLRP10, TLR3, CD74
GO: Biological Process	GO:0035296	regulation of tube diameter	1.28E-03	9	183	EPHX2, PDGFB, F2RL1, CHRM3, ADORA2B, ADRA1D, HRH2, NPR1, DRD1
GO: Biological Process	GO:0097746	regulation of blood vessel diameter	1.28E-03	9	183	EPHX2, PDGFB, F2RL1, CHRM3, ADORA2B, ADRA1D, HRH2, NPR1, DRD1

GO: Biological Process	GO:0032965	regulation of collagen biosynthetic process	1.30E-03	5	57	PDGFB,ADORA2B,RGCC,TGFB3,IL6
GO: Biological Process	GO:0071709	membrane assembly	1.30E-03	8	148	EPHB2,RFTN1,PTPRD,KRT18,KRT19,KRT23,KRT38,KRT36
GO: Biological Process	GO:0018958	phenol-containing compound metabolic process	1.31E-03	7	115	MAOA,DIO3,HAND2,NPR1,DRD1,WNT5A,SLC16A2
GO: Biological Process	GO:0035150	regulation of tube size	1.33E-03	9	184	EPHX2,PDGFB,F2RL1,CHRM3,ADORA2B,ADRA1D,HRH2,NPR1,DRD1
GO: Biological Process	GO:0001702	gastrulation with mouth forming second	1.34E-03	4	34	HHEX,WNT5A,CELSR1,PLPP3
GO: Biological Process	GO:0032232	negative regulation of actin filament bundle assembly	1.34E-03	4	34	CORO2B,SHANK1,ARHGAP28,TACSTD2
GO: Biological Process	GO:0030500	regulation of bone mineralization	1.35E-03	6	85	BMP6,FBN2,GPM6B,PKDCC,TFAP2A,TGFB3
GO: Biological Process	GO:0033138	positive regulation of peptidyl-serine phosphorylation	1.38E-03	7	116	IL11,GFRA2,WNT5A,NTRK2,LIF,IL6,HCLS1
GO: Biological Process	GO:0071697	ectodermal placode morphogenesis	1.40E-03	3	16	TBX2,TBX3,EDA
GO: Biological Process	GO:0060788	ectodermal placode formation	1.40E-03	3	16	TBX2,TBX3,EDA
GO: Biological Process	GO:0010935	regulation of macrophage cytokine production	1.40E-03	3	16	WNT5A,TGFB3,CD74
GO: Biological Process	GO:0060443	mammary gland morphogenesis	1.40E-03	5	58	ETV4,TBX2,TBX3,WNT5A,AR
GO: Biological Process	GO:0043949	regulation of cAMP-mediated signaling	1.40E-03	11	262	TSHR,PTGER2,CHRM3,UCN2,ADORA2B,ADRA1D,GNAX,ADGRL2,ADGRD1,DRD1,LGR5
GO: Biological Process	GO:0014070	response to organic cyclic compound	1.42E-03	28	1068	SOX10,PDGFB,PENK,PTGER2,CHRM3,F7,RFTN1,BMP6,ALDH1A2,HOXD13,KLF5,HRH2,HOXB13,FOXF1,ALPL,DRD1,FOS,NTRK2,ID3,WFDC1,AR,TGFB3,HEYL,HMGA2,PLPP1,EGR1,TLR3,IL6
GO: Biological Process	GO:0043069	negative regulation of programmed cell death	1.48E-03	28	1071	IL11,SOX10,NEF,EYA4,FOXQ1,RPS6KA1,NKX3-2,ACTC1,SOX8,PTPRZ1,HAND2,TBX3,ATF5,KRT18,WNT5A,NTRK2,NTSR1,TFAP2A,TFAP2B,AR,TGFB3,HMGA2,EGR3,CD74,EN1,IL6,HCLS1,FCMR
GO: Biological Process	GO:0030534	adult behavior	1.49E-03	9	187	TSHR,HOXB8,HOXD9,HOXD10,SCN1A,SHANK1,DRD1,NTSR1,EN1
GO: Biological Process	GO:0061311	cell surface receptor signaling pathway involved in heart de	1.49E-03	4	35	HAND2,DLL4,WNT5A,HEYL
GO: Biological Process	GO:0060512	prostate gland morphogenesis	1.49E-03	4	35	HOXD13,HOXB13,WNT5A,AR
GO: Biological Process	GO:0042325	regulation of phosphorylation	1.50E-03	41	1781	EPHB2,IL11,HHEX,EREG,PDGFB,GCKR,F2RL1,GFRA2,ADORA2B,BMP6,SRPX2,AFAP1L2,PTPRZ1,HAND2,CNCLJ,DRD1,WNT5A,NTRK2,RGCC,L1CAM,SAMD5,DUSP15,AR,TGFB3,MST1R,LIF,THBS4,HMGA2,LAT,PLPP1,PLPP3,EGR1,SPRY4,TLR3,KNDC1,CD74,ROSI,RSP01,IL6,HCLS1,PLCE1
GO: Biological Process	GO:0048286	lung alveolus development	1.51E-03	5	59	MAN2A1,FOXF1,PKDCC,TGFB3,LIF
GO: Biological Process	GO:0030850	prostate gland development	1.51E-03	5	59	HOXD13,PLAG1,HOXB13,WNT5A,AR
GO: Biological Process	GO:0008038	neuron recognition	1.51E-03	5	59	EPHB2,PTPRZ1,NTM,WNT5A,L1CAM
GO: Biological Process	GO:0048844	artery morphogenesis	1.53E-03	6	87	FOXF1,NOTCH3,HAND2,TBX2,DLL4,TFAP2B
GO: Biological Process	GO:0002687	positive regulation of leukocyte migration	1.54E-03	8	152	DAPK2,F2RL1,F7,CMKLR1,WNT5A,THBS4,CD74,IL6
GO: Biological Process	GO:0031279	regulation of cyclase activity	1.58E-03	11	266	TSHR,PTGER2,CHRM3,UCN2,ADORA2B,ADRA1D,GNAX,ADGRL2,ADGRD1,DRD1,LGR5
GO: Biological Process	GO:0061351	neural precursor cell proliferation	1.60E-03	9	189	SOX10,NEF,HHEX,PTPRZ1,ATF5,DLL4,WNT5A,HMGA2,EMX2
GO: Biological Process	GO:0001755	neural crest cell migration	1.63E-03	5	60	SOX10,SOX8,HAND2,SEMA3C,SEMA3E
GO: Biological Process	GO:0061036	positive regulation of cartilage development	1.66E-03	4	36	BMP6,HOXD11,WNT5A,PKDCC
GO: Biological Process	GO:0071696	ectodermal placode development	1.68E-03	3	17	TBX2,TBX3,EDA
GO: Biological Process	GO:0072537	fibroblast activation	1.68E-03	3	17	PDGFB,RPS6KA1,RGCC
GO: Biological Process	GO:0044091	membrane biogenesis	1.74E-03	8	155	EPHB2,RFTN1,PTPRD,KRT18,KRT19,KRT23,KRT38,KRT36
GO: Biological Process	GO:0051339	regulation of lyase activity	1.78E-03	11	270	TSHR,PTGER2,CHRM3,UCN2,ADORA2B,ADRA1D,GNAX,ADGRL2,ADGRD1,DRD1,LGR5
GO: Biological Process	GO:0035050	embryonic heart tube development	1.82E-03	6	90	HHEX,ALDH1A2,HAND2,TBX2,TBX3,WNT5A
GO: Biological Process	GO:0051056	regulation of small GTPase mediated signal transduction	1.84E-03	13	355	EPHB2,STARD8,PSD,F2RL1,PRAG1,STMN3,ARHGAP29,ARHGAP20,GPR17,ARAP3,SPRY4,ARHGAP28,PLCE1
GO: Biological Process	GO:0048048	embryonic eye morphogenesis	1.84E-03	4	37	FBN2,TBX2,WNT5A,TFAP2A
GO: Biological Process	GO:0051963	regulation of synapse assembly	1.84E-03	7	122	EPHB2,SRPX2,PTPRD,LRFN5,ADGRL2,WNT5A,NTRK2
GO: Biological Process	GO:0001837	epithelial to mesenchymal transition	1.89E-03	8	157	LOXL3,WNT5A,RGCC,TGFB3,HEYL,HMGA2,TMEM100,IL6
GO: Biological Process	GO:0050818	regulation of coagulation	1.92E-03	6	91	PDGFB,F2RL1,F7,FAP,PROCR,CD9
GO: Biological Process	GO:0014015	positive regulation of gliogenesis	1.92E-03	6	91	SOX10,SOX8,PTPRZ1,PLAG1,LIF,IL6
GO: Biological Process	GO:0006651	diacylglycerol biosynthetic process	1.97E-03	2	5	PLPP1,PLCE1
GO: Biological Process	GO:0072223	metanephric glomerular mesangium development	1.97E-03	2	5	PDGFB,EGR1
GO: Biological Process	GO:0070948	regulation of neutrophil mediated cytotoxicity	1.97E-03	2	5	F2RL1,CXCL6
GO: Biological Process	GO:0035021	negative regulation of Rac protein signal transduction	1.97E-03	2	5	STMN3,ARAP3
GO: Biological Process	GO:0021563	glossopharyngeal nerve development	1.97E-03	2	5	HOXB3,HOXD3
GO: Biological Process	GO:0090131	mesenchyme migration	1.97E-03	2	5	ACTC1,FOXF1
GO: Biological Process	GO:0046959	habituation	1.97E-03	2	5	SHANK1,DRD1
GO: Biological Process	GO:0018057	peptidyl-lysine oxidation	1.97E-03	2	5	LOXL4,LOXL3
GO: Biological Process	GO:2000047	regulation of cell-cell adhesion mediated by cadherin	1.99E-03	3	18	BMP6,WNT5A,RGCC
GO: Biological Process	GO:0060572	morphogenesis of an epithelial bud	1.99E-03	3	18	HHEX,WNT5A,AR
GO: Biological Process	GO:0010934	macrophage cytokine production	1.99E-03	3	18	WNT5A,TGFB3,CD74

GO: Biological Process	GO:0001977	renal system process involved in regulation of blood volume	1.99E-03	3	18	PDGFB,F2RL1,CORO2B
GO: Biological Process	GO:0033631	cell-cell adhesion mediated by integrin	1.99E-03	3	18	FERMT3,PODXL,L1CAM
GO: Biological Process	GO:1905114	cell surface receptor signaling pathway involved in cell-cell	2.02E-03	21	734	TSPAN12,SOX10,HHEX,CHRM3,STX1B,CCN4,SLC17A7,SHANK1,DRD1,WNT5A,NTSR1,LGR5,EDA,MST1R,CELSR1,HMGA2,CELSR2,PLPP3,EGR1,IGSF9B,RSPO1
GO: Biological Process	GO:0032101	regulation of response to external stimulus	2.03E-03	30	1201	EREG,PDGFB,DAPK2,F2RL1,F7,FGL2,ADORA2B,CCN4,RFTN1,BMP6,FAP,CADM1,LRFN5,CMKLR1,CXCL6,FOXF1,SEMA3C,DRD1,GPR17,WNT5A,RAB11FIP2,WFDC1,THBS4,NLRP10,CD9,TLR3,CD74,CTSB,IL6,SEMA3E
GO: Biological Process	GO:0010720	positive regulation of cell development	2.03E-03	20	685	EPHB2,SOX10,MAN2A1,SOX8,CCN4,BMP6,PTPRD,HOXD3,HOXD11,PTPRZ1,PLAG1,SHANK1,SEMA3C,TRIM58,WNT5A,NTRK2,L1CAM,LIF,HEYL,IL6
GO: Biological Process	GO:0048566	embryonic digestive tract development	2.03E-03	4	38	PCSK5,ALDH1A2,FOXF1,PKDCC
GO: Biological Process	GO:0003203	endocardial cushion morphogenesis	2.03E-03	4	38	TBX2,TGFB3,HEYL,TMEM100
GO: Biological Process	GO:0060441	epithelial tube branching involved in lung morphogenesis	2.03E-03	4	38	HHEX,FOXF1,CELSR1,HMGA2
GO: Biological Process	GO:0031175	neuron projection development	2.09E-03	29	1150	EPHB2,PSD,ETV4,TSHR,PRAG1,STX1B,GFRA2,NEFM,ANOS1,PTPRD,PTPRZ1,NFIB,STMN3,NTM,UGT8,KIF5C,SHANK1,GPM6B,SEMA3C,WNT5A,NTRK2,L1CAM,RUNX3,LIF,THBS4,CELSR2,KNDC1,IL6,SEMA3E
GO: Biological Process	GO:0002718	regulation of cytokine production involved in immune response	2.15E-03	6	93	F2RL1,WNT5A,TGFB3,TLR3,CD74,IL6
GO: Biological Process	GO:0045685	regulation of glial cell differentiation	2.15E-03	6	93	PTPRZ1,ATF5,DUSP15,LIF,HMGA2,IL6
GO: Biological Process	GO:0090066	regulation of anatomical structure size	2.18E-03	18	592	EPHX2,PDGFB,F2RL1,CHRM3,NEFM,ADORA2B,ADRA1D,KCNN4,HRH2,SEMA3C,NPR1,DRD1,WNT5A,L1CAM,SHR1,ARHGAP28,HCLS1,SEMA3E
GO: Biological Process	GO:0007519	skeletal muscle tissue development	2.20E-03	9	198	SOX8,HOXD9,HOXD10,KLF5,PITX1,FOS,HOTTIP,HEYL,EGR1
GO: Biological Process	GO:0003279	cardiac septum development	2.21E-03	7	126	PCSK5,TBX2,TBX3,SEMA3C,WNT5A,ZFPM2,HEYL
GO: Biological Process	GO:0019933	cAMP-mediated signaling	2.23E-03	11	278	TSHR,PTGER2,CHRM3,UCN2,ADORA2B,ADRA1D,GNAZ,ADGRL2,ADGRD1,DRD1,LGR5
GO: Biological Process	GO:0021884	forebrain neuron development	2.24E-03	4	39	DRD1,ATF5,WNT5A,TFAP2A
GO: Biological Process	GO:1905331	negative regulation of morphogenesis of an epithelium	2.34E-03	3	19	TBX2,WNT5A,TACSTD2
GO: Biological Process	GO:0070848	response to growth factor	2.36E-03	22	794	HHEX,PDGFB,PENK,BMP6,ANOS1,FBN2,CHRDL1,FGF5,DLL4,FOS,WNT5A,NTRK2,DUSP15,RUNX3,TFAP2B,TGFB3,HEYL,EGR1,EGR3,SPRY4,TMEM100,IL6
GO: Biological Process	GO:0061041	regulation of wound healing	2.39E-03	8	163	PDGFB,F2RL1,F7,CCN4,FAP,WFDC1,CD9,PLPP3
GO: Biological Process	GO:0030879	mammary gland development	2.39E-03	8	163	ETV4,HOXD9,FOXF1,TBX2,TBX3,WNT5A,AR,TGFB3
GO: Biological Process	GO:1905332	positive regulation of morphogenesis of an epithelium	2.46E-03	4	40	SOX8,HOXB7,AR,LIF
GO: Biological Process	GO:0099068	postsynapse assembly	2.46E-03	4	40	EPHB2,PTPRD,SHANK1,WNT5A
GO: Biological Process	GO:0007616	long-term memory	2.46E-03	4	40	SLC17A7,SHANK1,NTRK2,EGR1
GO: Biological Process	GO:0048710	regulation of astrocyte differentiation	2.46E-03	4	40	ATF5,LIF,HMGA2,IL6
GO: Biological Process	GO:0099537	trans-synaptic signaling	2.49E-03	24	900	EPHB2,PENK,CHRM3,STX1B,ADORA2B,CADM1,PTPRD,SCN1A,SLC17A7,HRH2,SHANK1,DRD1,DTNA,NTRK2,L1CAM,NTSR1,APBA2,SYT7,CELSR1,MCTP1,EGR1,EGR3,IGSF9B,IL6
GO: Biological Process	GO:0032964	collagen biosynthetic process	2.49E-03	5	66	PDGFB,ADORA2B,RGCC,TGFB3,IL6
GO: Biological Process	GO:0002682	regulation of immune system process	2.52E-03	40	1775	IL11,EREG,HLA-DQA1,DAPK2,F2RL1,F7,ITGB7,FGL2,ADORA2B,RFTN1,HOXB8,CADM1,PTPRD,TMEM178A,LRFN5,KCNN4,LOXL3,CMKLR1,CXCL6,FOXF1,GPR17,TRIM58,FOS,WNT5A,RGCC,RAB11FIP2,RUNX3,TGFB3,LIF,THBS4,NLRP10,CD9,LA T,EGR3,TLR3,CD70,CD74,CTSB,IL6,HCLS1
GO: Biological Process	GO:0045859	regulation of protein kinase activity	2.60E-03	24	903	EPHB2,HHEX,EREG,PDGFB,GFRA2,ADORA2B,AFAP1L2,CCNJL,DRD1,WNT5A,NTRK2,RGCC,SAMD5,TGFB3,MST1R,HMGA2,LAT,PLPP1,EGR1,SPRY4,TLR3,CD74,IL6,PLCE1
GO: Biological Process	GO:1902105	regulation of leukocyte differentiation	2.61E-03	12	326	HLA-DQA1,FGL2,TMEM178A,LOXL3,FOS,RUNX3,LIF,EGR3,TLR3,CD74,IL6,HCLS1
GO: Biological Process	GO:0033674	positive regulation of kinase activity	2.62E-03	19	651	EPHB2,EREG,PDGFB,GCKR,ADORA2B,AFAP1L2,WNT5A,NTRK2,RGCC,SAMD5,TGFB3,MST1R,HMGA2,LAT,PLPP1,EGR1,TLR3,CD74,PLCE1
GO: Biological Process	GO:0009725	response to hormone	2.65E-03	27	1062	SOX10,HHEX,EREG,PENK,TSHR,PTGER2,CHRM3,F7,UCN2,BMP6,ALDH1A2,HOXD13,HOXB13,ALPL,FOS,NTRK2,WFDC1,LGR5,AR,TGFB3,HEYL,HMGA2,PLPP1,EGR1,CTSB,IL6,HCLS1
GO: Biological Process	GO:0022408	negative regulation of cell-cell adhesion	2.69E-03	9	204	HLA-DQA1,FGL2,BMP6,LOXL3,PODXL,RGCC,RUNX3,CD9,CD74
GO: Biological Process	GO:0060326	cell chemotaxis	2.74E-03	12	328	PDGFB,DAPK2,F2RL1,F7,CMKLR1,CXCL6,WNT5A,CXCL1,THBS4,EGR3,CD74,IL6
GO: Biological Process	GO:0006954	inflammatory response	2.78E-03	22	805	EPHX2,PTGER2,F2RL1,ADORA2B,CCN4,BMP6,AFAP1L2,LRFN5,LOXL3,CMKLR1,CXCL6,FOXF1,GPR17,FOS,WNT5A,WFDC1,CHST1,CXCL1,NLRP10,LAT,TLR3,IL6
GO: Biological Process	GO:0043410	positive regulation of MAPK cascade	2.85E-03	18	607	EPHB2,IL11,PDGFB,F2RL1,ADORA2B,HAND2,WNT5A,NTRK2,SAMD5,DUSP15,AR,TGFB3,MST1R,LIF,TLR3,CD74,IL6,PLCE1
GO: Biological Process	GO:0048660	regulation of smooth muscle cell proliferation	2.87E-03	9	206	EREG,PDGFB,CCN4,NOTCH3,NPR1,OGN,TGFB3,EGR1,IL6
GO: Biological Process	GO:0042035	regulation of cytokine biosynthetic process	2.87E-03	7	132	EREG,WNT5A,EGR1,TLR3,CD74,PRG4,IL6
GO: Biological Process	GO:0060348	bone development	2.88E-03	10	246	CCN4,BMP6,CADM1,HOXD11,COL14A1,ALPL,COL7A1,HOTTIP,TFAP2A,TGFB3
GO: Biological Process	GO:0070945	neutrophil-mediated killing of gram-negative bacterium	2.92E-03	2	6	F2RL1,CXCL6
GO: Biological Process	GO:0001661	conditioned taste aversion	2.92E-03	2	6	DRD1,FOS

GO: Biological Process	GO:0060685	regulation of prostatic bud formation	2.92E-03	2	6	WNT5A,AR
GO: Biological Process	GO:0097070	ductus arteriosus closure	2.92E-03	2	6	FOXF1,TFAP2B
GO: Biological Process	GO:0032596	protein transport into membrane raft	2.92E-03	2	6	REEP2,RFTN1
GO: Biological Process	GO:0060662	salivary gland cavitation	2.92E-03	2	6	NFIB,EDA
GO: Biological Process	GO:0060605	tube lumen cavitation	2.92E-03	2	6	NFIB,EDA
GO: Biological Process	GO:0043542	endothelial cell migration	2.93E-03	11	288	PDGFB,ADORA2B,FAP,SRPX2,DLL4,WNT5A,RGCC,VASH1,PLPP3,EGR3,CLEC14A
GO: Biological Process	GO:0033002	muscle cell proliferation	2.93E-03	11	288	EREG,PDGFB,CCN4,NOTCH3,TBX2,NPR1,OGN,ZFPM2,TGFB3,EGR1,IL6
GO: Biological Process	GO:1903524	positive regulation of blood circulation	2.94E-03	6	99	PDGFB,PTGER2,F2RL1,CHRM3,ADRA1D,HRH2
GO: Biological Process	GO:0060603	mammary gland duct morphogenesis	2.95E-03	4	42	ETV4,TBX3,WNT5A,AR
GO: Biological Process	GO:0099536	synaptic signaling	2.99E-03	24	913	EPHB2,PENK,CHRM3,STX1B,ADORA2B,CADM1,PTPRD,SCN1A,SLC17A7,HRH2,SHANK1,DRD1,DTNA,NTRK2,L1CA M,NTSR1,APBA2,SYT7,CELSR1,MCTP1,EGR1,EGR3,IGSF9B,IL6
GO: Biological Process	GO:0045765	regulation of angiogenesis	3.01E-03	14	421	TSPAN12,HHEX,SRPX2,NPR1,DLL4,WNT5A,RGCC,VASH1,LIF,THBS4,HMGA2,TLR3,IL6,SEMA3E
GO: Biological Process	GO:0001947	heart looping	3.03E-03	5	69	ALDH1A2,HAND2,TBX2,TBX3,WNT5A
GO: Biological Process	GO:0045860	positive regulation of protein kinase activity	3.05E-03	18	611	EPHB2,EREG,PDGFB,ADORA2B,AFAP1L2,WNT5A,NTRK2,RGCC,SAMD5,TGFB3,MST1R,HMGA2,LAT,PLPP1,EGR1,T LR3,CD74,PLCE1
GO: Biological Process	GO:0001649	osteoblast differentiation	3.06E-03	10	248	PENK,SOX8,CCN4,BMP6,FBN2,HAND2,ALPL,ID3,GLIS1,IL6
GO: Biological Process	GO:0010941	regulation of cell death	3.10E-03	43	1969	IL11,SOX10,NE5,EYA4,FOXQ1,RPS6KA1,DAPK2,NKX3- 2,ACTC1,SOX8,CCN4,BMP6,FAP,ALDH1A2,PTPRZ1,HAND2,TBX3,DRD1,ATF5,KRT18,FOS,WNT5A,NTRK2,RGCC,NT SR1,ID3,RUNX3,TFAP2A,TFAP2B,AR,ZFPM2,TGFB3,HMGA2,EGR1,EGR3,TLR3,CD74,EN1,CTS8,IL6,HCLS1,ACLS5, FCMR
GO: Biological Process	GO:0048858	cell projection morphogenesis	3.13E-03	21	762	EPHB2,NE5,ETV4,GFRA2,NEFM,ANOS1,PTPRD,PTPRZ1,NFIB,UGT8,KIF5C,SHANK1,SEMA3C,WNT5A,NTRK2,L1CA M,RUNX3,THBS4,CELSR2,KNDC1,SEMA3E
GO: Biological Process	GO:0003198	epithelial to mesenchymal transition involved in endocardia	3.15E-03	3	21	TGFB3,HEYL,TMEM100
GO: Biological Process	GO:0003215	cardiac right ventricle morphogenesis	3.15E-03	3	21	HAND2,SEMA3C,ZFPM2
GO: Biological Process	GO:0007219	Notch signaling pathway	3.16E-03	9	209	HHEX,PRAG1,HOXD3,NOTCH3,TBX2,DLL4,KRT19,HEYL,TMEM100
GO: Biological Process	GO:0060538	skeletal muscle organ development	3.16E-03	9	209	SOX8,HOXD9,HOXD10,KLF5,PITX1,FOS,HOTTIP,HEYL,EGR1
GO: Biological Process	GO:0019221	cytokine-mediated signaling pathway	3.18E-03	22	814	IL11,EREG,MAOA,PDGFB,HLA- DQA1,F2RL1,GFRA2,PTPRZ1,CMKLR1,CXCL6,GPR17,KRT18,FOS,WNT5A,CXCL1,EDA,MST1R,LIF,EGR1,CD70,CD7 4,IL6
GO: Biological Process	GO:0071363	cellular response to growth factor stimulus	3.18E-03	21	763	HHEX,PDGFB,PENK,BMP6,ANOS1,FBN2,CHRDL1,FGF5,DLL4,FOS,WNT5A,NTRK2,DUSP15,TFAP2B,TGFB3,HEYL, EGR1,EGR3,SPRY4,TMEM100,IL6
GO: Biological Process	GO:0031128	developmental induction	3.22E-03	4	43	SOX8,HOXD11,TFAP2A,AR
GO: Biological Process	GO:0008217	regulation of blood pressure	3.26E-03	9	210	EPHX2,PCSK5,PDGFB,F2RL1,ADRA1D,CORO2B,NPR1,NTSR1,AR
GO: Biological Process	GO:0035051	cardiocyte differentiation	3.36E-03	9	211	PDGFB,ACTC1,CCN4,KLF5,COL14A1,HAND2,TBX2,TBX3,SEMA3C
GO: Biological Process	GO:0048659	smooth muscle cell proliferation	3.36E-03	9	211	EREG,PDGFB,CCN4,NOTCH3,NPR1,OGN,TGFB3,EGR1,IL6
GO: Biological Process	GO:0042060	wound healing	3.38E-03	18	617	EREG,PDGFB,F2RL1,F7,CCN4,FAP,KLF5,FERMT3,PROCR,WNT5A,WFDC1,SYT7,ZFPM2,TGFB3,CELSR1,CD9,PLPP3 ,IL6
GO: Biological Process	GO:0050886	endocrine process	3.41E-03	6	102	PCSK5,F2RL1,UCN2,BMP6,TBX3,LIF
GO: Biological Process	GO:0002066	columnar/cuboidal epithelial cell development	3.43E-03	5	71	NKX3-2,BMP6,KLF5,WNT5A,ROS1
GO: Biological Process	GO:0030099	myeloid cell differentiation	3.45E-03	15	474	IL11,HHEX,F2RL1,CCN4,HOXB7,HOXB8,TMEM178A,EXOC6,ANK1,TRIM58,FOS,LIF,TLR3,CD74,HCLS1
GO: Biological Process	GO:0098801	regulation of renal system process	3.50E-03	4	44	PDGFB,F2RL1,CORO2B,NPR1
GO: Biological Process	GO:0044331	cell-cell adhesion mediated by cadherin	3.50E-03	4	44	BMP6,CDH20,WNT5A,RGCC
GO: Biological Process	GO:0043549	regulation of kinase activity	3.54E-03	25	978	EPHB2,HHEX,EREG,PDGFB,GCKR,GFRA2,ADORA2B,AFAP1L2,CCN4,DRD1,WNT5A,NTRK2,RGCC,SAMD5,TGFB3, MST1R,HMGA2,LAT,PLPP1,EGR1,SPRY4,TLR3,CD74,IL6,PLCE1
GO: Biological Process	GO:0048585	negative regulation of response to stimulus	3.59E-03	42	1927	EPHB2,SOX10,HHEX,EREG,EYA4,PDGFB,F2RL1,CHRM3,FGI2,SLC9A3R2,FAP,FBN2,PTPRD,STMN3,LRNF5,CHRDL 1,LOXL3,GNAZ,FOXF1,NOTCH3,SEMA3C,DRD1,GPR17,DLL4,WNT5A,WFDC1,TFAP2A,AR,TGFB3,LIF,HEYL,ARAP3 ,HMGA2,MCTP1,CD9,EGR1,SPRY4,TLR3,CD74,IL6,SEMA3E,FCMR
GO: Biological Process	GO:0050905	neuromuscular process	3.67E-03	7	138	PENK,HOXC10,HOXD10,SCN1A,SHANK1,DRD1,HOTTIP
GO: Biological Process	GO:0045168	cell-cell signaling involved in cell fate commitment	3.80E-03	4	45	SOX8,HOXD11,TFAP2A,AR
GO: Biological Process	GO:0003156	regulation of animal organ formation	3.80E-03	4	45	HOXD11,HAND2,WNT5A,AR
GO: Biological Process	GO:0032570	response to progesterone	3.80E-03	4	45	SOX10,PTGER2,FOS,TGFB3
GO: Biological Process	GO:0051017	actin filament bundle assembly	3.82E-03	8	176	CORO2B,SHANK1,RGCC,SHROOM2,TGFB3,SHROOM1,ARHGAP28,TACSTD2
GO: Biological Process	GO:0048146	positive regulation of fibroblast proliferation	3.86E-03	5	73	EREG,PDGFB,PTPRZ1,WNT5A,CD74
GO: Biological Process	GO:0110149	regulation of biomineralization	3.93E-03	6	105	BMP6,FBN2,GPM6B,PKDCC,TFAP2A,TGFB3
GO: Biological Process	GO:0001708	cell fate specification	3.93E-03	6	105	HOXC10,HOXD10,TBX2,TBX15,TBX3,AR
GO: Biological Process	GO:0070167	regulation of biomineral tissue development	3.93E-03	6	105	BMP6,FBN2,GPM6B,PKDCC,TFAP2A,TGFB3

GO: Biological Process	GO:0051047	positive regulation of secretion	3.98E-03	16	529	SYTL2,F2RL1,STX1B,ADORA2B,BMP6,CADM1,KCNN4,NPR1,WNT5A,RGCC,NTSR1,SYT7,TGFB3,LIF,NLRP10,IL6
GO: Biological Process	GO:0002001	renin secretion into blood stream	4.05E-03	2	7	PCSK5,F2RL1
GO: Biological Process	GO:0060526	prostate glandular acinus morphogenesis	4.05E-03	2	7	HOXD13,HOXB13
GO: Biological Process	GO:0060527	prostate epithelial cord arborization involved in prostate gli	4.05E-03	2	7	HOXD13,HOXB13
GO: Biological Process	GO:2000491	positive regulation of hepatic stellate cell activation	4.05E-03	2	7	PDGFB,RPS6KA1
GO: Biological Process	GO:0032534	regulation of microvillus assembly	4.05E-03	2	7	KLF5,PODXL
GO: Biological Process	GO:0060664	epithelial cell proliferation involved in salivary gland morph	4.05E-03	2	7	PDGFB,IL6
GO: Biological Process	GO:1904587	response to glycoprotein	4.05E-03	2	7	TSHR,F7
GO: Biological Process	GO:0010046	response to mycotoxin	4.05E-03	2	7	PDGFB,EGR1
GO: Biological Process	GO:0022414	reproductive process	4.05E-03	37	1652	PCSK5,EREG,PDGFB,TDRD9,SOX8,BMP6,CADM1,HOXD9,HOXD10,HOXD11,HOXD13,PLAG1,HOXB13,ALPL,TBX3, COL9A3,DRD1,KRT19,FOS,WNT5A,VASH1,LGR5,AR,ZFPM2,TGFB3,MST1R,LIF,HMGA2,CD9,PLPP1,PLPP3,EGR1, TLR3,ROS1,CTSB,RSP01,SPESP1
GO: Biological Process	GO:1902107	positive regulation of leukocyte differentiation	4.08E-03	8	178	HLA-DQA1,FOS,RUNX3,LIF,EGR3,CD74,IL6,HCLS1
GO: Biological Process	GO:0048485	sympathetic nervous system development	4.10E-03	3	23	HAND2,TFAP2A,TFAP2B
GO: Biological Process	GO:0070372	regulation of ERK1 and ERK2 cascade	4.11E-03	12	345	EPHB2,PDGFB,F2RL1,HAND2,NTRK2,L1CAM,DUSP15,LIF,SPRY4,CD74,ROS1,IL6
GO: Biological Process	GO:2000826	regulation of heart morphogenesis	4.11E-03	4	46	HAND2,TBX2,SEMA3C,TGFB3
GO: Biological Process	GO:0060993	kidney morphogenesis	4.12E-03	6	106	SOX8,HOXB7,HOXD11,FRAS1,LIF,TACSTD2
GO: Biological Process	GO:0000003	reproduction	4.18E-03	37	1655	PCSK5,EREG,PDGFB,TDRD9,SOX8,BMP6,CADM1,HOXD9,HOXD10,HOXD11,HOXD13,PLAG1,HOXB13,ALPL,TBX3, COL9A3,DRD1,KRT19,FOS,WNT5A,VASH1,LGR5,AR,ZFPM2,TGFB3,MST1R,LIF,HMGA2,CD9,PLPP1,PLPP3,EGR1, TLR3,ROS1,CTSB,RSP01,SPESP1
GO: Biological Process	GO:0032990	cell part morphogenesis	4.22E-03	21	782	EPHB2,NES,ETV4,GFRA2,NEFM,ANOS1,PTPRD,PTPRZ1,NFIB,UGT8,KIF5C,SHANK1,SEMA3C,WNT5A,NTRK2,L1CA M,RUNX3,THBS4,CELSR2,KNDC1,SEMA3E
GO: Biological Process	GO:0061572	actin filament bundle organization	4.37E-03	8	180	CORO2B,SHANK1,RGCC,SHROOM2,TGFB3,SHROOM1,ARHGAP28,TACSTD2
GO: Biological Process	GO:0000165	MAPK cascade	4.42E-03	26	1049	EPHB2,IL11,EREG,PDGFB,F2RL1,GFRA2,ADORA2B,BMP6,FGF5,HAND2,WNT5A,NTRK2,L1CAM,SAMD5,DUSP15, AR,TGFB3,MST1R,LIF,LAT,SPRY4,TLR3,CD74,ROS1,IL6,PLCE1
GO: Biological Process	GO:1902893	regulation of pri-miRNA transcription by RNA polymerase II	4.45E-03	4	47	PDGFB,NFIB,KLF5,FOS
GO: Biological Process	GO:0021983	pituitary gland development	4.45E-03	4	47	ALDH1A2,PITX1,WNT5A,HMGA2
GO: Biological Process	GO:0001942	hair follicle development	4.51E-03	6	108	FOXQ1,WNT5A,RUNX3,LGR5,EDA,CELSR1
GO: Biological Process	GO:0098916	anterograde trans-synaptic signaling	4.52E-03	23	891	EPHB2,PENK,CHRM3,STX1B,ADORA2B,PTPRD,SCN1A,SLC17A7,HRH2,SHANK1,DRD1,DTNA,NTRK2,L1CAM,NTSR1, APBA2,SYT7,CELSR1,MCTP1,EGR1,EGR3,IGSF9B,IL6
GO: Biological Process	GO:0007268	chemical synaptic transmission	4.52E-03	23	891	EPHB2,PENK,CHRM3,STX1B,ADORA2B,PTPRD,SCN1A,SLC17A7,HRH2,SHANK1,DRD1,DTNA,NTRK2,L1CAM,NTSR1, APBA2,SYT7,CELSR1,MCTP1,EGR1,EGR3,IGSF9B,IL6
GO: Biological Process	GO:0097164	ammonium ion metabolic process	4.55E-03	9	221	CDS1,MAOA,MBOAT2,RAB38,NPR1,DRD1,LIPC,PLPP1,SLC44A3
GO: Biological Process	GO:0042981	regulation of apoptotic process	4.56E-03	39	1779	IL11,SOX10,NES,EYA4,FOXQ1,RPS6KA1,DAPK2,NKX3- 2,ACTC1,SOX8,BMP6,FAP,ALDH1A2,PTPRZ1,HAND2,TBX3,ATF5,KRT18,WNT5A,NTRK2,RGCC,NTSR1,ID3,RUNX3, TFAP2A,TFAP2B,AR,TGFB3,HMGA2,EGR1,EGR3,TLR3,CD74,EN1,CTSB,IL6,HCLS1,ACSL5,FCMR
GO: Biological Process	GO:0061371	determination of heart left/right asymmetry	4.59E-03	5	76	ALDH1A2,HAND2,TBX2,TBX3,WNT5A
GO: Biological Process	GO:0003143	embryonic heart tube morphogenesis	4.59E-03	5	76	ALDH1A2,HAND2,TBX2,TBX3,WNT5A
GO: Biological Process	GO:0072215	regulation of metanephros development	4.64E-03	3	24	PDGFB,LIF,EGR1
GO: Biological Process	GO:0010842	retina layer formation	4.64E-03	3	24	TSPAN12,TFAP2A,TFAP2B
GO: Biological Process	GO:1900424	regulation of defense response to bacterium	4.64E-03	3	24	F2RL1,CXCL6,NLRP10
GO: Biological Process	GO:0032332	positive regulation of chondrocyte differentiation	4.64E-03	3	24	BMP6,HOXD11,PKDCC
GO: Biological Process	GO:0034138	toll-like receptor 3 signaling pathway	4.64E-03	3	24	F2RL1,RFTN1,TLR3
GO: Biological Process	GO:0043524	negative regulation of neuron apoptotic process	4.67E-03	8	182	NES,FOXQ1,PTPRZ1,NTRK2,TFAP2A,TFAP2B,TGFB3,EN1
GO: Biological Process	GO:0007612	learning	4.67E-03	8	182	EPHB2,HRH2,SHANK1,DRD1,FOS,NTRK2,NTSR1,EN1
GO: Biological Process	GO:0002685	regulation of leukocyte migration	4.69E-03	9	222	DAPK2,F2RL1,F7,CMKLR1,WNT5A,THBS4,CD9,CD74,IL6
GO: Biological Process	GO:0007411	axon guidance	4.74E-03	11	307	EPHB2,ETV4,GFRA2,ANOS1,NFIB,KIF5C,SEMA3C,WNT5A,L1CAM,RUNX3,SEMA3E
GO: Biological Process	GO:0050804	modulation of chemical synaptic transmission	4.75E-03	16	539	EPHB2,STX1B,ADORA2B,PTPRD,HRH2,SHANK1,DRD1,NTRK2,L1CAM,NTSR1,APBA2,SYT7,CELSR1,MCTP1,EGR1,I GSF9B
GO: Biological Process	GO:0045907	positive regulation of vasoconstriction	4.80E-03	4	48	PDGFB,CHRM3,ADRA1D,HRH2
GO: Biological Process	GO:0060412	ventricular septum morphogenesis	4.80E-03	4	48	TBX3,WNT5A,ZFPM2,HEYL
GO: Biological Process	GO:0042476	odontogenesis	4.81E-03	7	145	HAND2,ALPL,ID3,ADAMTS5,EDA,TFAP2A,TGFB3
GO: Biological Process	GO:1903708	positive regulation of hemopoiesis	4.83E-03	9	223	HLA-DQA1,TRIM58,FOS,RUNX3,LIF,EGR3,CD74,IL6,HCLS1
GO: Biological Process	GO:0050866	negative regulation of cell activation	4.83E-03	9	223	PDGFB,HLA-DQA1,FGL2,IRF5,LOXL3,FOXF1,RUNX3,CD9,CD74

GO: Biological Process	GO:0032103	positive regulation of response to external stimulus	4.83E-03	19	689	EREG,PDGFB,DAPK2,F2RL1,F7,ADORA2B,CCN4,RFTN1,BMP6,CADM1,CMKLR1,WNT5A,RAB11FIP2,THBS4,NLRP1,0,TLR3,CD74,CTSB,IL6
GO: Biological Process	GO:0099177	regulation of trans-synaptic signaling	4.83E-03	16	540	EPHB2,STX1B,ADORA2B,PTPRD,HRH2,SHANK1,DRD1,NTRK2,L1CAM,NTSR1,APBA2,SYT7,CELSR1,MCTP1,EGR1,IGSF9B
GO: Biological Process	GO:0097485	neuron projection guidance	4.85E-03	11	308	EPHB2,ETV4,GFRA2,ANOS1,NFIB,KIF5C,SEMA3C,WNT5A,L1CAM,RUNX3,SEMA3E
GO: Biological Process	GO:0051965	positive regulation of synapse assembly	4.86E-03	5	77	EPHB2,SRPX2,PTPRD,ADGRL2,NTRK2
GO: Biological Process	GO:0030900	forebrain development	4.90E-03	14	445	EPHB2,HHEX,ALDH1A2,NFIB,PITX1,NOTCH3,TBX3,DRD1,ATF5,WNT5A,NTRK2,TFAP2A,HMG2,EMX2
GO: Biological Process	GO:0098773	skin epidermis development	4.94E-03	6	110	FOXQ1,WNT5A,RUNX3,LGR5,EDA,CELSR1
GO: Biological Process	GO:0022404	molting cycle process	4.94E-03	6	110	FOXQ1,WNT5A,RUNX3,LGR5,EDA,CELSR1
GO: Biological Process	GO:0022405	hair cycle process	4.94E-03	6	110	FOXQ1,WNT5A,RUNX3,LGR5,EDA,CELSR1
GO: Biological Process	GO:0032231	regulation of actin filament bundle assembly	4.94E-03	6	110	CORO2B,SHANK1,RGCC,TGFB3,ARHGAP28,TACSTD2
GO: Biological Process	GO:0048812	neuron projection morphogenesis	4.97E-03	20	742	EPHB2,ETV4,GFRA2,NEFM,ANOS1,PTPRD,PTPRZ1,NFIB,UGT8,KIF5C,SHANK1,SEMA3C,WNT5A,NTRK2,L1CAM,RUNX3,THBS4,CELSR2,KNDC1,SEMA3E
GO: Biological Process	GO:0023014	signal transduction by protein phosphorylation	5.12E-03	26	1061	EPHB2,IL11,EREG,PDGFB,F2RL1,GFRA2,ADORA2B,BMP6,FGF5,HAND2,WNT5A,NTRK2,L1CAM,SAMD5,DUSP15,AR,TGFB3,MST1R,LIF,LAT,SPRY4,TLR3,CD74,ROS1,IL6,PLCE1
GO: Biological Process	GO:0072243	metanephric nephron epithelium development	5.22E-03	3	25	PDGFB,SOX8,LIF
GO: Biological Process	GO:0090189	regulation of branching involved in ureteric bud morphogenesis	5.22E-03	3	25	SOX8,HOXB7,TACSTD2
GO: Biological Process	GO:0007264	small GTPase mediated signal transduction	5.25E-03	17	594	EPHB2,STAR8,PSD,F2RL1,PRAG1,RAB38,STMN3,ARHGAP29,ARHGAP20,GPR17,CELSR1,ARAP3,LAT,SPRY4,KNDC1,ARHGAP28,PLCE1
GO: Biological Process	GO:0031345	negative regulation of cell projection organization	5.26E-03	9	226	EPHB2,PRAG1,STX1B,PTPRZ1,NTM,SEMA3C,WNT5A,TACSTD2,SEMA3E
GO: Biological Process	GO:0048839	inner ear development	5.26E-03	9	226	EPHB2,TSHR,USH2A,SOBP,WNT5A,LGR5,TFAP2A,TGFB3,CELSR1
GO: Biological Process	GO:0010977	negative regulation of neuron projection development	5.31E-03	8	186	EPHB2,PRAG1,STX1B,PTPRZ1,NTM,SEMA3C,WNT5A,SEMA3E
GO: Biological Process	GO:1902533	positive regulation of intracellular signal transduction	5.35E-03	27	1119	EPHB2,IL11,EREG,PDGFB,F2RL1,PRAG1,F7,ADORA2B,FGF5,HAND2,NPR1,GPR17,WNT5A,NTRK2,L1CAM,SAMD5,DUSP15,EDA,AR,TGFB3,MST1R,LIF,TLR3,CD74,IL6,HCLS1,PLCE1
GO: Biological Process	GO:0061476	response to anticoagulant	5.35E-03	2	8	F7,EGR1
GO: Biological Process	GO:0072126	positive regulation of glomerular mesangial cell proliferation	5.35E-03	2	8	PDGFB,EGR1
GO: Biological Process	GO:2000048	negative regulation of cell-cell adhesion mediated by cadherin	5.35E-03	2	8	BMP6,RGCC
GO: Biological Process	GO:0072201	negative regulation of mesenchymal cell proliferation	5.35E-03	2	8	NFIB,WNT5A
GO: Biological Process	GO:0030913	paranodal junction assembly	5.35E-03	2	8	UGT8,CD9
GO: Biological Process	GO:0002072	optic cup morphogenesis involved in camera-type eye development	5.35E-03	2	8	WNT5A,TFAP2A
GO: Biological Process	GO:0097151	positive regulation of inhibitory postsynaptic potential	5.35E-03	2	8	NTSR1,IGSF9B
GO: Biological Process	GO:0014908	myotube differentiation involved in skeletal muscle regeneration	5.35E-03	2	8	KLF5,CD9
GO: Biological Process	GO:0001999	renal response to blood flow involved in circulatory renin-angiotensin system	5.35E-03	2	8	PCSK5,F2RL1
GO: Biological Process	GO:0007442	hindgut morphogenesis	5.35E-03	2	8	HOXD13,WNT5A
GO: Biological Process	GO:0046958	nonassociative learning	5.35E-03	2	8	SHANK1,DRD1
GO: Biological Process	GO:0050890	cognition	5.37E-03	12	357	EPHB2,PTPRZ1,SLC17A7,HRH2,SHANK1,DRD1,SOBP,FOS,NTRK2,NTSR1,EGR1,EN1
GO: Biological Process	GO:0060976	coronary vasculature development	5.41E-03	5	79	PCSK5,PDGFB,KLF5,HAND2,ZFPM2
GO: Biological Process	GO:0050808	synapse organization	5.42E-03	15	498	EPHB2,PDGFB,SRPX2,CADM1,PTPRD,LRFN5,ADGRL2,SHANK1,DRD1,WNT5A,NTRK2,L1CAM,CNKSRR2,IGSF9B,SEMA3E
GO: Biological Process	GO:0008610	lipid biosynthetic process	5.43E-03	20	748	EPHX2,CD51,PDGFB,MBOAT2,RAB38,ADORA2B,BMP6,ALDH1A2,UGT8,ISYNA1,LIPC,PLPP1,PLPP3,EGR1,CD74,CYB5R2,ACSL5,SLC44A3,CPNE7,PLCE1
GO: Cellular Component	GO:0031012	extracellular matrix	1.53E-10	32	598	PDGFB,ELFN2,F7,FGL2,CCN4,ANOS1,SRPX2,FBN2,PTPRZ1,COL14A1,MMP10,USH2A,ALPL,CRISPLD2,COL7A1,SEMA3C,FRAS1,COL9A3,ADAMTSL1,WNT5A,L1CAM,ADAMTSS5,OGN,COL23A1,TGFB3,THBS4,CLEC14A,TLR3,HAPLN3,PCOLCE2,CTSB,PRG4
GO: Cellular Component	GO:0005887	integral component of plasma membrane	2.38E-08	54	1710	EPHB2,TSPAN12,EREG,TSPAN18,HLA-DQA1,TSHR,PTGER2,F2RL1,CHRM3,REEP2,ITGB7,ADORA2B,ADRA1D,CADM1,PTPRD,PTPRZ1,LRFN5,SCN1A,KCNK4,HRH2,CMKLR1,ADGRL2,ADGRD1,NOTCH3,SHANK1,TRHDE,SEMA3C,DRD1,GPR17,DLL4,PODXL,PROCR,NTRK2,NTSR1,LGR5,EDA,SYT7,MSR1,MST1R,CELSR1,CD9,LAT,SLC16A5,PLPP1,SLC14A1,PLPP3,SLC16A2,SCARAS,TLR3,CD70,CD74,ROS1,IL6,SEMA3E
GO: Cellular Component	GO:0062023	collagen-containing extracellular matrix	9.53E-08	24	474	PDGFB,F7,FGL2,SRPX2,FBN2,PTPRZ1,COL14A1,USH2A,COL7A1,SEMA3C,FRAS1,COL9A3,ADAMTSL1,WNT5A,L1CAM,ADAMTSS5,OGN,COL23A1,TGFB3,THBS4,CLEC14A,PCOLCE2,CTSB,PRG4
GO: Cellular Component	GO:0031226	intrinsic component of plasma membrane	1.08E-07	54	1790	EPHB2,TSPAN12,EREG,TSPAN18,HLA-DQA1,TSHR,PTGER2,F2RL1,CHRM3,REEP2,ITGB7,ADORA2B,ADRA1D,CADM1,PTPRD,PTPRZ1,LRFN5,SCN1A,KCNK4,HRH2,CMKLR1,ADGRL2,ADGRD1,NOTCH3,SHANK1,TRHDE,SEMA3C,DRD1,GPR17,DLL4,PODXL,PROCR,NTRK2,NTSR1,LGR5,EDA,SYT7,MSR1,MST1R,CELSR1,CD9,LAT,SLC16A5,PLPP1,SLC14A1,PLPP3,SLC16A2,SCARAS,TLR3,CD70,CD74,ROS1,IL6,SEMA3E

GO: Cellular Component	GO:0005788	endoplasmic reticulum lumen	1.18E-05	16	312	EOGT,PDGFB,PENK,TOR4A,F7,CHRD1,COL14A1,COL7A1,COL9A3,ADAMTSL1,WNT5A,ADAMTSS,COL23A1,LIPC,ARSL,IL6
GO: Cellular Component	GO:0009986	cell surface	8.42E-05	31	1035	PDGFB,HLA-DQA1,TSHR,ITGB7,GFRA2,ADORA2B,FAP,SRPX2,CDH20,LRFN5,NTM,NOTCH3,PROCR,WNT5A,NTRK2,L1CAM,NTSR1,COL23A1,TGFB3,MST1R,LIPC,SLC9A3,CD9,CLEC14A,SCARAS,TLR3,CD74,ROS1,CTSB,IL6,FCMR
GO: Cellular Component	GO:0030424	axon	3.04E-04	25	817	EPHB2,PENK,CHRM3,STX1B,NEFM,CADM1,PTPRD,PTPRZ1,NFIB,STMN3,NTM,SCN1A,SLC17A7,KIF5C,USH2A,EXOC6,DRD1,ANK1,DTNA,NTRK2,L1CAM,NTSR1,SYT7,AR,AP3B2
GO: Cellular Component	GO:0032280	symmetric synapse	4.37E-04	3	11	PENK,NTSR1,IGSF9B
GO: Cellular Component	GO:0005912	adherens junction	4.74E-04	19	560	STARD8,ACTC1,PRAG1,FRMD4B,ITGB7,SLC9A3R2,FAP,CORO2B,CDH20,FBLN7,KRT18,PROCR,L1CAM,SHROOM2,SHROOM1,CD9,PLPP3,SPRY4,CSR2
GO: Cellular Component	GO:0036477	somatodendritic compartment	5.08E-04	30	1096	EPHB2,PCSK5,PSD,PDGFB,PENK,CHRM3,NEFM,CADM1,PTPRD,PTPRZ1,SCN1A,KCNN4,HRH2,KIF5C,GNAZ,USH2A,SHANK1,DRD1,NTRK2,L1CAM,NTSR1,APBA2,CNKS2,SHROOM2,SYT7,AR,TGFB3,KNDC1,IGSF9B,TMEM100
GO: Cellular Component	GO:0030934	anchoring collagen complex	6.04E-04	2	3	COL14A1,COL7A1
GO: Cellular Component	GO:0005794	Golgi apparatus	6.37E-04	40	1643	GALNT15,PCSK5,MAN2A1,PDGFB,HLA-DQA1,DAPK2,B3GALT5,EXTL1,F2RL1,F7,RTN1,GALNT18,RAB38,ZDHHC15,CHST15,STMN3,KLF5,FAM3C,MGAT5B,NOTCH3,COL7A1,MAN1C1,WNT5A,NTRK2,NTSR1,PKOCC,CHST1,RNF175,LGR5,OGN,TFAP2A,STGALNAC2,ARSL,LAT,PLPP3,AP3B2,TLR3,GOLGA8B,CD74,PLCE1
GO: Cellular Component	GO:0070161	anchoring junction	6.52E-04	19	575	STARD8,ACTC1,PRAG1,FRMD4B,ITGB7,SLC9A3R2,FAP,CORO2B,CDH20,FBLN7,KRT18,PROCR,L1CAM,SHROOM2,SHROOM1,CD9,PLPP3,SPRY4,CSR2
GO: Cellular Component	GO:0000790	nuclear chromatin	6.68E-04	45	1924	SOX10,HHEX,KLF8,FOXQ1,NKX3-2,ETV4,SOX8,HOXB3,HOXB7,HOXB8,HOXC10,HOXD3,HOXD9,HOXD10,HOXD11,HOXD13,NFIB,KLF5,PITX1,PLAG1,HOXB13,FOXF1,HAND2,TBX2,TBX15,TBX3,ATF5,FOS,ID3,EBF1,RUNX3,TFAP2A,TFAP2B,AR,ZFPM2,NFE2L3,H EYL,HMGA2,EGR1,EGR3,ZNF396,EMX2,EN1,PRDM6,GLIS1
GO: Cellular Component	GO:0000139	Golgi membrane	7.35E-04	23	770	GALNT15,PCSK5,MAN2A1,PDGFB,HLA-DQA1,B3GALT5,RTN1,GALNT18,ZDHHC15,CHST15,MGAT5B,NOTCH3,COL7A1,MAN1C1,NTRK2,CHST1,RNF175,LGR5,STGALNAC2,TLR3,GOLGA8B,CD74,PLCE1
GO: Cellular Component	GO:0044297	cell body	7.50E-04	24	820	EPHB2,PCSK5,PDGFB,PENK,ACTC1,NEFM,PTPRZ1,SCN1A,KCNN4,KIF5C,GNAZ,USH2A,DRD1,PODXL,NTRK2,L1CAM,NTSR1,CNKS2,SHROOM2,SYT7,TGFB3,KNDC1,IGSF9B,TMEM100
GO: Cellular Component	GO:0043005	neuron projection	9.66E-04	39	1624	EPHB2,PCSK5,PSD,PDGFB,PENK,CHRM3,STX1B,NEFM,SLC9A3R2,CADM1,PTPRD,PTPRZ1,NFIB,STMN3,NTM,SCN1A,SLC17A7,KCNN4,HRH2,KIF5C,GNAZ,ADGRL2,USH2A,SHANK1,EXOC6,DRD1,ANK1,DTNA,FOS,NTRK2,L1CAM,NTSR1,APBA2,CNKS2,SYT7,AR,AP3B2,KNDC1,IGSF9B
GO: Cellular Component	GO:0030665	clathrin-coated vesicle membrane	1.47E-03	7	117	EREG,HLA-DQA1,SLC17A7,WNT5A,CD9,AP3B2,CD74
GO: Cellular Component	GO:0005581	collagen trimer	1.55E-03	6	87	COL14A1,COL7A1,COL9A3,EDA,MSR1,COL23A1
GO: Cellular Component	GO:0030054	cell junction	1.86E-03	33	1352	STARD8,ACTC1,PRAG1,CHRM3,FRMD4B,ITGB7,SLC9A3R2,FAP,SRPX2,CORO2B,CADM1,CDH20,SCN1A,SLC17A7,FERMT3,SHANK1,FBLN7,KRT18,PODXL,DTNA,PROCR,L1CAM,SHROOM2,SYT7,SHROOM1,MCTP1,CD9,LAT,PLPP3,SPRY4,CSR2,IGSF9B,TACSTD2
GO: Cellular Component	GO:0030425	dendrite	1.94E-03	22	779	EPHB2,PCSK5,PSD,PDGFB,PENK,CHRM3,CADM1,PTPRD,PTPRZ1,HRH2,KIF5C,GNAZ,SHANK1,DRD1,NTRK2,L1CAM,NTSR1,APBA2,SYT7,AR,KNDC1,IGSF9B
GO: Cellular Component	GO:0097447	dendritic tree	1.94E-03	22	779	EPHB2,PCSK5,PSD,PDGFB,PENK,CHRM3,CADM1,PTPRD,PTPRZ1,HRH2,KIF5C,GNAZ,SHANK1,DRD1,NTRK2,L1CAM,NTSR1,APBA2,SYT7,AR,KNDC1,IGSF9B
GO: Cellular Component	GO:0043025	neuronal cell body	2.03E-03	21	732	EPHB2,PCSK5,PDGFB,PENK,NEFM,PTPRZ1,SCN1A,KCNN4,KIF5C,USH2A,DRD1,NTRK2,L1CAM,NTSR1,CNKS2,SHROOM2,SYT7,TGFB3,KNDC1,IGSF9B,TMEM100
GO: Cellular Component	GO:0098984	neuron to neuron synapse	2.27E-03	15	452	PSD,PENK,CHRM3,NEFM,CADM1,PTPRD,PTPRZ1,LRFN5,SHANK1,DRD1,NTRK2,NTSR1,CNKS2,SYT7,IGSF9B
GO: Cellular Component	GO:0097060	synaptic membrane	2.41E-03	17	548	EPHB2,CHRM3,STX1B,SRPX2,CADM1,PTPRD,PTPRZ1,LRFN5,ADGRL2,SHANK1,DRD1,ANK1,NTRK2,L1CAM,CNKS2,SYT7,IGSF9B
Pathway	M5889	Ensemble of genes encoding extracellular matrix and extrac	7.04E-11	46	1026	IL11,PCSK5,EREG,PDGFB,ELFN2,F7,FGL2,CCN4,BMP6,ANOS1,CILP2,SRPX2,FBN2,CHRD1,FGF5,LOXL4,COL14A1,LOXL3,MMP10,CXCL6,USH2A,CRISPLD2,FBLN7,COL7A1,SEMA3C,FRAS1,COL9A3,ADAMTSL1,WNT5A,ADAMTSS5,CXCL1,EDA,OGN,ANGPTL1,COL23A1,TGFB3,LIF,THBS4,CLEC14A,HAPLN3,PCOLCE2,CTSB,PRG4,RSPO1,IL6,SEMA3E
Pathway	M5884	Ensemble of genes encoding core extracellular matrix inclu	1.49E-08	20	275	FGL2,CCN4,ANOS1,CILP2,SRPX2,FBN2,COL14A1,USH2A,CRISPLD2,FBLN7,COL7A1,FRAS1,COL9A3,OGN,COL23A1,THBS4,HAPLN3,PCOLCE2,PRG4,RSPO1
Pathway	M3008	Genes encoding structural ECM glycoproteins	1.49E-05	13	196	FGL2,CCN4,ANOS1,CILP2,SRPX2,FBN2,USH2A,CRISPLD2,FBLN7,FRAS1,THBS4,PCOLCE2,RSPO1
Pathway	1270245	Collagen formation	1.14E-04	8	93	LOXL4,COL14A1,LOXL3,COL7A1,COL9A3,COL23A1,PCOLCE2,CTSB

Pathway	M5885	Ensemble of genes encoding ECM-associated proteins inclu	1.48E-04	26	751	IL11,PCSK5,EREG,PDGFB,ELFN2,F7,BMP6,CHRD1,FGF5,LOXL4,LOXL3,MMP10,CXCL6,SEMA3C,ADAMTSL1,WN T5A,ADAMT5,CXCL1,EDA,ANGPTL1,TGFβ3,LIF,CLEC14A,CTSB,IL6,SEMA3E
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