

	NumFunGenes	Gs_Pso_uninvolved	DEGs_Pso_uninvolved_p	DEGs_Pso_uninvolved_FDR	DEGs_Pso_uninvolved_FC	DEGs_Pso_uninvolved_gcr	DEGs_AD_uninvolved_x	DEGs_AD_uninvolved_p	DEGs_AD_uninvolved_FDR	DEGs_AD_uninvolved_F	DEGs_AD_uninvolved_genes
CARTILAGE_DEVELOPMENT_INVOLVED	18	2	1.72E-03	8.50E-02	22.97	COL1A1; COMP	1	5.29E-02	3.37E-01	9.44	COMP
CELLULAR_ZINC_ION_HOMEOSTASIS	12	2	7.50E-04	5.59E-02	34.45	S100A8; S100A9	2	1.11E-03	6.25E-02	28.33	S100A8; S100A9
CHRONIC_INFLAMMATORY_RESPONSE	12	2	7.50E-04	5.59E-02	34.45	S100A8; S100A9	2	1.11E-03	6.25E-02	28.33	S100A8; S100A9
CORNIFIED_ENVELOPE	22	6	3.69E-10	1.46E-07	56.38	SPRR2A; SPRR2B; SPRR2D; :	6	1.23E-09	4.85E-07	46.35	SPRR2A; SPRR2B; SPRR2D; SPRR2
CYTOKINE_ACTIVITY	168	5	7.38E-04	5.59E-02	6.15	BMP3; CCL4; IL19; IL36A; IL	8	3.54E-06	7.99E-04	8.09	BMP3; CCL13; CCL18; CCL8; CXCL
CYTOKINE_PRODUCTION	90	4	5.08E-04	5.35E-02	9.19	AIM2; S100A12; S100A8; S1	2	5.72E-02	3.39E-01	3.78	S100A8; S100A9
DEFENSE_RESPONSE_TO_BACTERIUM	97	5	5.63E-05	9.88E-03	10.66	DEFB4A; S100A12; S100A7;	4	1.41E-03	7.20E-02	7.01	DEFB4A; S100A7; S100A8; S100A
DEFENSE_RESPONSE_TO_FUNGUS	11	3	8.80E-06	1.74E-03	56.38	S100A12; S100A8; S100A9	2	9.25E-04	5.85E-02	30.90	S100A8; S100A9
DISRUPTION_OF_CELLS_OF_OTHER_OR	11	2	6.26E-04	5.59E-02	37.58	APOL1; S100A12	0	5.31E-01	7.69E-01	0.00	
EPIDERMAL_CELL_DIFFERENTIATION	102	10	2.89E-11	1.52E-08	20.27	LCE3A; LCE3D; LCE3E; S100	10	2.13E-10	1.12E-07	16.66	LCE3A; LCE3D; LCE3E; S100A7; S1
EPIDERMIS_DEVELOPMENT	245	11	1.32E-08	4.17E-06	9.28	COL1A1; LCE3A; LCE3D; LCI	11	1.07E-07	2.82E-05	7.63	KRT16; LCE3A; LCE3D; LCE3E; S1I
EPITHELIAL_CELL_DIFFERENTIATION	242	10	1.31E-07	3.46E-05	8.54	LCE3A; LCE3D; LCE3E; S100	11	9.43E-08	2.82E-05	7.73	ERBB4; LCE3A; LCE3D; LCE3E; S1I
INTERLEUKIN_1_RECEPTOR_BINDING	16	2	1.35E-03	7.38E-02	25.84	IL36A; IL36G	0	5.45E-01	7.69E-01	0.00	
KERATINIZATION	44	9	2.76E-13	4.36E-10	42.28	LCE3A; LCE3D; LCE3E; SPRR	9	1.71E-12	2.70E-09	34.77	LCE3A; LCE3D; LCE3E; SPRR2A; S1
KERATINOCYTE_DIFFERENTIATION	87	10	5.72E-12	4.52E-09	23.76	LCE3A; LCE3D; LCE3E; S100	10	4.26E-11	3.37E-08	19.54	LCE3A; LCE3D; LCE3E; S100A7; S1
KILLING_OF_CELLS_OF_OTHER_ORGANI	11	2	6.26E-04	5.59E-02	37.58	APOL1; S100A12	0	5.31E-01	7.69E-01	0.00	
LONG_CHAIN_FATTY_ACID_BINDING	12	2	7.50E-04	5.59E-02	34.45	S100A8; S100A9	2	1.11E-03	6.25E-02	28.33	S100A8; S100A9
MAINTENANCE_OF_LOCATION	121	4	1.55E-03	7.89E-02	6.83	S100A7; S100A8; S100A9; S	3	2.01E-02	3.30E-01	4.21	S100A8; S100A9
MODIFICATION_OF_MORPHOLOGY_OR	48	3	8.46E-04	5.59E-02	12.92	APOL1; CCL4; S100A12	1	1.40E-01	4.25E-01	3.54	HMGA2
NEUTROPHIL_CHEMOTAXIS	36	3	3.59E-04	4.24E-02	17.23	S100A12; S100A8; S100A9	3	6.40E-04	5.83E-02	14.16	EDN2; S100A8; S100A9
POSITIVE_REGULATION_OF_CYSSTEINE_1	111	4	1.12E-03	6.82E-02	7.45	AIM2; IFI27; S100A8; S100A	3	1.59E-02	3.20E-01	4.59	IFI27; S100A8; S100A9
POSITIVE_REGULATION_OF_ENDOPEPTI	116	4	1.32E-03	7.38E-02	7.13	AIM2; IFI27; S100A8; S100A	3	1.79E-02	3.20E-01	4.60	IFI27; S100A8; S100A9
POSITIVE_REGULATION_OF_LYMPHOCT	16	2	1.35E-03	7.38E-02	25.84	CCL4; S100A7	1	4.70E-02	3.37E-01	10.42	S100A7
POSITIVE_REGULATION_OF_NF_KAPPAI	104	4	8.78E-04	5.59E-02	7.95	AIM2; S100A12; S100A8; S1	2	7.42E-02	3.55E-01	3.27	S100A8; S100A9
POSITIVE_REGULATION_OF_PEPTIDASE	120	4	1.50E-03	7.89E-02	6.89	AIM2; IFI27; S100A8; S100A	3	1.96E-02	3.26E-01	4.25	IFI27; S100A8; S100A9
POSITIVE_REGULATION_OF_RESPONSE	145	5	3.76E-04	4.24E-02	7.13	CCL4; S100A12; S100A7; S1	4	6.10E-03	1.90E-01	4.69	EDN2; S100A7; S100A8; S100A9
REGULATION_OF_ENDOPEPTIDASE_ACT	238	7	8.45E-05	1.21E-02	6.08	AIM2; IFI27; PI3; S100A8; S	7	2.92E-04	3.48E-02	5.00	BIRC3; IFI27; S100A8; S100A9; SE
REGULATION_OF_LYMPHOCTE_CHEMI	13	2	8.85E-04	5.59E-02	31.80	CCL4; S100A7	1	3.82E-02	3.37E-01	13.07	S100A7
REGULATION_OF_PEPTIDASE_ACTIVITY	245	7	1.01E-04	1.33E-02	5.91	AIM2; IFI27; PI3; S100A8; S	7	3.48E-04	3.67E-02	4.86	BIRC3; IFI27; S100A8; S100A9; SE
RESPONSE_TO_FUNGUS	21	3	6.93E-05	1.09E-02	29.53	S100A12; S100A8; S100A9	2	3.46E-03	1.48E-01	16.19	S100A8; S100A9
SEQUESTERING_OF_METAL_ION	11	3	8.80E-06	1.74E-03	56.38	S100A7; S100A8; S100A9	3	1.59E-05	3.14E-03	46.35	S100A7; S100A8; S100A9
ZINC_ION_HOMEOSTASIS	13	2	8.85E-04	5.59E-02	31.80	S100A8; S100A9	2	1.31E-03	6.88E-02	26.15	S100A8; S100A9
CELL_CHEMOTAXIS	103	3	7.58E-03	1.98E-01	6.02	S100A12; S100A8; S100A9	4	1.77E-03	8.72E-02	6.60	CCL13; EDN2; S100A8; S100A9
CELLULAR_ZINC_ION_HOMEOSTASIS	12	2	7.50E-04	5.59E-02	34.45	S100A8; S100A9	2	1.11E-03	6.25E-02	28.33	S100A8; S100A9
CHEMOKINE_ACTIVITY	39	1	9.39E-02	3.72E-01	5.30	CCL4	4	4.09E-05	7.18E-03	17.43	CCL13; CCL18; CCL8; CXCL6
CHEMOKINE_RECEPTOR_BINDING	46	1	1.11E-01	4.03E-01	4.49	CCL4	4	7.93E-05	1.24E-02	14.78	CCL13; CCL18; CCL8; CXCL6
CHRONIC_INFLAMMATORY_RESPONSE	12	2	7.50E-04	5.59E-02	34.45	S100A8; S100A9	2	1.11E-03	6.25E-02	28.33	S100A8; S100A9
CORNIFIED_ENVELOPE	22	6	3.69E-10	1.46E-07	56.38	SPRR2A; SPRR2B; SPRR2D; :	6	1.23E-09	4.85E-07	46.35	SPRR2A; SPRR2B; SPRR2D; SPRR2
CYTOKINE_ACTIVITY	168	5	7.38E-04	5.59E-02	6.15	BMP3; CCL4; IL19; IL36A; IL	8	3.54E-06	7.99E-04	8.09	BMP3; CCL13; CCL18; CCL8; CXCL
CYTOKINE_CYTOKINE_RECEPTOR_INTER	229	2	2.02E-01	5.27E-01	1.81	IL19; CCL4	7	2.30E-04	3.03E-02	5.20	IL13; IL20; IL26; CCL8; CCL13; CCI
CYTOKINE_RECEPTOR_BINDING	182	3	3.49E-02	3.11E-01	3.41	CCL4; IL36A; IL36G	6	4.05E-04	3.99E-02	5.60	CCL13; CCL18; CCL8; CXCL6; IL13
DEFENSE_RESPONSE_TO_BACTERIUM	97	5	5.63E-05	9.88E-03	10.66	DEFB4A; S100A12; S100A7;	4	1.41E-03	7.20E-02	7.01	DEFB4A; S100A7; S100A8; S100A
DEFENSE_RESPONSE_TO_FUNGUS	11	3	8.80E-06	1.74E-03	56.38	S100A12; S100A8; S100A9	2	9.25E-04	5.85E-02	30.90	S100A8; S100A9
DORSAL_SPINAL_CORD_DEVELOPMENT	11	0	5.26E-01	8.01E-01	0.00		2	9.25E-04	5.85E-02	30.90	DRGX; GSK2
EPIDERMAL_CELL_DIFFERENTIATION	102	10	2.89E-11	1.52E-08	20.27	LCE3A; LCE3D; LCE3E; S100	10	2.13E-10	1.12E-07	16.66	LCE3A; LCE3D; LCE3E; S100A7; S1
EPIDERMIS_DEVELOPMENT	245	11	1.32E-08	4.17E-06	9.28	COL1A1; LCE3A; LCE3D; LCI	11	1.07E-07	2.82E-05	7.63	KRT16; LCE3A; LCE3D; LCE3E; S1I
EPITHELIAL_CELL_DIFFERENTIATION	242	10	1.31E-07	3.46E-05	8.54	LCE3A; LCE3D; LCE3E; S100	11	9.43E-08	2.82E-05	7.73	ERBB4; LCE3A; LCE3D; LCE3E; S1I
KERATINIZATION	44	9	2.76E-13	4.36E-10	42.28	LCE3A; LCE3D; LCE3E; SPRR	9	1.71E-12	2.70E-09	34.77	LCE3A; LCE3D; LCE3E; SPRR2A; S1
KERATINOCYTE_DIFFERENTIATION	87	10	5.72E-12	4.52E-09	23.76	LCE3A; LCE3D; LCE3E; S100	10	4.26E-11	3.37E-08	19.54	LCE3A; LCE3D; LCE3E; S100A7; S1
LEUKOCYTE_CHEMOTAXIS	82	3	3.99E-03	1.54E-01	7.56	S100A12; S100A8; S100A9	4	7.51E-04	5.83E-02	8.29	CCL13; EDN2; S100A8; S100A9
LONG_CHAIN_FATTY_ACID_BINDING	12	2	7.50E-04	5.59E-02	34.45	S100A8; S100A9	2	1.11E-03	6.25E-02	28.33	S100A8; S100A9
NEUTROPHIL_CHEMOTAXIS	36	3	3.59E-04	4.24E-02	17.23	S100A12; S100A8; S100A9	3	6.40E-04	5.83E-02	14.16	EDN2; S100A8; S100A9
OLFACTORY_BULB_INTERNEURON_DIFF	11	0	5.26E-01	8.01E-01	0.00		2	9.25E-04	5.85E-02	30.90	ERBB4; GSK2
POSITIVE_REGULATION_OF_ERK1_AND	80	2	3.21E-02	3.10E-01	5.17	DCC; S100A7	4	6.84E-04	5.83E-02	8.50	ERBB4; GPR55; IL26; S100A7
POSITIVE_REGULATION_OF_JAK_STAT_1	47	0	6.02E-01	8.01E-01	0.00		4	8.63E-05	1.24E-02	14.47	ERBB4; IL13; IL20; IL26
POSITIVE_REGULATION_OF_TYROSINE_	39	0	5.86E-01	8.01E-01	0.00		4	8.11E-04	5.83E-02	13.07	ERBB4; IL13; IL20
REGULATION_OF_ENDOPEPTIDASE_ACT	238	7	8.45E-05	1.21E-02	6.08	AIM2; IFI27; PI3; S100A8; S	7	2.92E-04	3.48E-02	5.00	BIRC3; IFI27; S100A8; S100A9; SE
REGULATION_OF_JAK_STAT_CASCADE	65	0	6.35E-01	8.01E-01	0.00		4	3.08E-04	3.48E-02	10.46	ERBB4; IL13; IL20; IL26
REGULATION_OF_PEPTIDASE_ACTIVITY	245	7	1.01E-04	1.33E-02	5.91	AIM2; IFI27; PI3; S100A8; S	7	3.48E-04	3.67E-02	4.86	ERBB4; IL13; IL20; IL26
REGULATION_OF_TYROSINE_PHOSPHOI	45	0	5.98E-01	8.01E-01	0.00		3	1.24E-03	6.75E-02	11.33	ERBB4; IL13; IL20
RESPONSE_TO_ETHANOL	83	2	3.43E-02	3.10E-01	4.98	S100A8; S100A9	4	7.86E-04	5.83E-02	8.19	ADH6; IL13; S100A8; S100A9
SEQUESTERING_OF_METAL_ION	11	3	8.80E-06	1.74E-03	56.38	S100A7; S100A8; S100A9	3	1.59E-05	3.14E-03	46.35	S100A7; S100A8; S100A9
SERINE_TYPE_ENDOPEPTIDASE_INHIBIT	82	3	3.99E-03	1.54E-01	7.56	PI3; SERPINB3; SERPINB4	4	7.51E-04	5.83E-02	8.29	SERPINB11; SERPINB4; SPINK1; V
ZINC_ION_HOMEOSTASIS	13	2	8.85E-04	5.59E-02	31.80	S100A8; S100A9	2	1.31E-03	6.88E-02	26.15	S100A8; S100A9

E; SPRR2F; SPRR2G  
.6; IL13; IL20; IL26

9

^RR2A; SPRR2B; SPRR2D; SPRR2E; SPRR2F; SPRR2G  
^AA7; SPRR2A; SPRR2B; SPRR2D; SPRR2E; SPRR2F; SPRR2G  
^AA7; SPRR2A; SPRR2B; SPRR2D; SPRR2E; SPRR2F; SPRR2G

^RR2B; SPRR2D; SPRR2E; SPRR2F; SPRR2G  
^RR2A; SPRR2B; SPRR2D; SPRR2E; SPRR2F; SPRR2G

RPINB11; SERPINB4; SPINK1

RPINB11; SERPINB4; SPINK1

E; SPRR2F; SPRR2G  
.6; IL13; IL20; IL26

.18; CXCL6  
; IL20  
9

^RR2A; SPRR2B; SPRR2D; SPRR2E; SPRR2F; SPRR2G  
^AA7; SPRR2A; SPRR2B; SPRR2D; SPRR2E; SPRR2F; SPRR2G  
^AA7; SPRR2A; SPRR2B; SPRR2D; SPRR2E; SPRR2F; SPRR2G  
^RR2B; SPRR2D; SPRR2E; SPRR2F; SPRR2G  
^RR2A; SPRR2B; SPRR2D; SPRR2E; SPRR2F; SPRR2G

RPINB11; SERPINB4; SPINK1

RPINB11; SERPINB4; SPINK1

^FIKKN2