

Additional file 4. Early upregulated skin clusters 1, 2, and 3 functional classification**Functional Group 1 (Probe set IDs)**

1422403_at
1419529_at
1422305_at
1422403_at
1426181_a_at
1422403_at
1422403_at
1422403_at
1422403_at
1419427_at
1422403_at
1422403_at
1422403_at
1422403_at
1422403_at
1422403_at

Interferon α , β and δ /cytokine, Enrichment Score: 9.77

INTERFERON ALPHA FAMILY, GENE 5
INTERLEUKIN 23, ALPHA SUBUNIT P19
INTERFERON BETA 1, FIBROBLAST
INTERFERON ALPHA FAMILY, GENE 1
INTERLEUKIN 24
INTERFERON ALPHA FAMILY, GENE 7
INTERFERON ALPHA FAMILY, GENE 2
INTERFERON ALPHA FAMILY, GENE 6
INTERFERON ALPHA FAMILY, GENE 9
COLONY STIMULATING FACTOR 3 (GRANULOCYTE)
INTERFERON ALPHA FAMILY, GENE B
ALPHA-INTERFERON
INTERFERON ALPHA 8/6 PRECURSOR; IFNA8/6
INTERFERON ALPHA FAMILY, GENE 12
INTERFERON ALPHA 6T
INTERFERON ALPHA 14

Functional Group 2

1421578_at
1421228_at
1420380_at
1419561_at
1422029_at
1449984_at
1419209_at, 1441855_x_at, 1457644_s_at
1438148_at
1448859_at
1419728_at
1418480_at
1419697_at

Chemokines, Enrichment Score: 9.58

CHEMOKINE (C-C MOTIF) LIGAND 4
CHEMOKINE (C-C MOTIF) LIGAND 7
CHEMOKINE (C-C MOTIF) LIGAND 2
CHEMOKINE (C-C MOTIF) LIGAND 3
CHEMOKINE (C-C MOTIF) LIGAND 20
CHEMOKINE (C-X-C MOTIF) LIGAND 2
CHEMOKINE (C-X-C MOTIF) LIGAND 1
GENE MODEL 1960, (NCBI)
CHEMOKINE (C-X-C MOTIF) LIGAND 13
CHEMOKINE (C-X-C MOTIF) LIGAND 5
CHEMOKINE (C-X-C MOTIF) LIGAND 7
CHEMOKINE (C-X-C MOTIF) LIGAND 11

Functional Group 3

1416881_at
1418835_at
1422308_a_at
1418649_at
1419004_s_at
1419004_s_at
1419004_s_at
1434350_at

Cell differentiation/apoptosis, Enrichment Score: 3.85

MYELOID CELL LEUKEMIA SEQUENCE 1
PLECKSTRIN HOMOLOG-LIKE DOMAIN, FAMILY A, MEMBER 1
LECTIN, GALACTOSE BINDING, SOLUBLE 7
EGL NINE HOMOLOG 3 (C. ELEGANS)
B-CELL LEUKEMIA/LYMPHOMA 2 RELATED PROTEIN A1A
B-CELL LEUKEMIA/LYMPHOMA 2 RELATED PROTEIN A1D
B-CELL LEUKEMIA/LYMPHOMA 2 RELATED PROTEIN A1B
AXIN1 UP-REGULATED 1

Functional Group 4

1437676_at

Positive regulation of protein kinase activity, Enrichment Score: 3.68

SPERM ASSOCIATED ANTIGEN 9

1418685_at
1449773_s_at, 1450971_at
1423122_at

Functional Group 5

1418842_at
1437270_a_at, 1437271_at
1432826_a_at, 1457952_at
1451318_a_at

Functional Group 6

1420699_at
1419132_at
1419272_at
1449399_a_at
1418162_at, 1418163_at, 1430695_at, 1442827_at
1421352_at
1457753_at

Functional Group 7

1428315_at
1422767_at, 1450742_at
1433502_s_at
1452414_s_at
1452454_at
1448480_at
1454841_at
1423823_at

Functional Group 8

1416298_at, 1448291_at
1417256_at
1420450_at
1422175_at
1422273_at
1449366_at

TOLL-INTERLEUKIN 1 RECEPTOR (TIR) DOMAIN-CONTAINING ADAPTOR PROTEIN
GROWTH ARREST AND DNA-DAMAGE-INDUCIBLE 45 BETA
ARGININE VASOPRESSIN-INDUCED 1

Regulation of metabolic/biological process, Enrichment Score: 2.91

HEMATOPOIETIC CELL SPECIFIC LYN SUBSTRATE 1
CARDIOTROPHIN-LIKE CYTOKINE FACTOR 1
CD80 ANTIGEN
YAMAGUCHI SARCOMA VIRAL (V-YES-1) ONCOGENE HOMOLOG

Pattern recognition receptors (TLR related), Enrichment Score: 2.82

C-TYPE LECTIN DOMAIN FAMILY 7, MEMBER A
TOLL-LIKE RECEPTOR 2
MYELOID DIFFERENTIATION PRIMARY RESPONSE GENE 88
INTERLEUKIN 1 BETA
TOLL-LIKE RECEPTOR 4
TOLL-LIKE RECEPTOR 6
TOLL-LIKE RECEPTOR 13

Ribosome/organelle organization, Enrichment Score: 2.5

EBNA1 BINDING PROTEIN 2
BYSTIN-LIKE
TSR1, 20S RRNA ACCUMULATION, HOMOLOG (YEAST)
RIKEN CDNA 4933411H20 GENE
SDA1 DOMAIN CONTAINING 1
NUCLEAR IMPORT 7 HOMOLOG (S. CEREVISIAE)
RIKEN CDNA 5730405K23 GENE
RIKEN CDNA 2610012O22 GENE

Matrix metallopeptidase, enrichment Score: 2.04

MATRIX METALLOPEPTIDASE 9
MATRIX METALLOPEPTIDASE 13
MATRIX METALLOPEPTIDASE 10
MATRIX METALLOPEPTIDASE 1A (INTERSTITIAL COLLAGENASE)
MATRIX METALLOPEPTIDASE 1B (INTERSTITIAL COLLAGENASE)
MATRIX METALLOPEPTIDASE 8