

| Cluster  | Transcription Factor                              | Possible role             | Contig #    | Blast Hit, Accession | Blast Hit, E-value | Expression Profile (log2 fold change vs Norm) |        |        | Z-score | Fisher score |
|----------|---------------------------------------------------|---------------------------|-------------|----------------------|--------------------|-----------------------------------------------|--------|--------|---------|--------------|
|          |                                                   |                           |             |                      |                    | Day 2                                         | Day 12 | Day 20 |         |              |
| Cluster1 | Liver X receptor alpha (NR1H-like)                | Transcriptional activator | Contig44610 | Q5E9B6               | 9.00E-114          | 1.15                                          | NS     | NS     | 6.08    | 2.00         |
|          | Serum response factor (SRF)                       | Transcriptional activator | Contig21621 | Q90718               | 2.00E-069          | NS                                            | 0.66   | 1.24   | 7.16    | 1.69         |
|          | CCAAT/enhancer-binding protein (CEBP-like)        | Transcriptional activator | Contig39    | Q05826               | 2.00E-018          | 0.63                                          | NS     | NS     | 5.58    | 1.46         |
|          | Transcriptional repressor CTCF                    | Transcriptional repressor | Contig31852 | Q08705               | 8.00E-074          | NS                                            | -0.54  | -0.51  | 8.06    | 1.39         |
| Cluster2 | Serum response factor (SRF)                       | Transcriptional repressor | Contig21621 | Q90718               | 2.00E-069          | NS                                            | 0.66   | 1.24   | 7.16    | 1.69         |
|          | Fli1                                              | Transcriptional repressor | Contig30142 | Q01543               | 2.00E-123          | NS                                            | 0.96   | 0.60   | 11.68   | 4.86         |
|          | Zinc finger protein PLAG1                         | Transcriptional activator | Contig4325  | Q58NQ5               | 2.00E-020          | NS                                            | -2.29  | NS     | 7.30    | 4.02         |
|          | Transcription factor COE3 (Ebf3)                  | Transcriptional activator | Contig64380 | O08791               | 0.00E+000          | -0.47                                         | -0.46  | NS     | 15.72   | 2.12         |
| Cluster3 | Nuclear factor NF-kappa-B p105 subunit (Nfkb1)    | Transcriptional activator | Contig6439  | Q6F3J0               | 3.00E-110          | 0.48                                          | NS     | NS     | 14.41   | 2.03         |
|          | Estrogen-related receptor beta (Esrrb)            | Transcriptional activator | Contig65136 | P11475               | 6.00E-082          | NS                                            | 0.73   | 0.63   | 7.04    | 1.55         |
|          | Transcriptional repressor CTCF                    | Transcriptional repressor | Contig31852 | Q08705               | 8.00E-074          | NS                                            | -0.54  | -0.51  | 6.51    | 0.98         |
| Cluster4 | Pre-B-cell leukemia transcription factor 3 (PBX3) | Transcriptional activator | Contig30212 | P40426               | 0.00E+000          | -0.53                                         | -0.69  | NS     | 6.18    | 7.57         |
| Cluster5 | Fli1                                              | Transcriptional repressor | Contig30142 | Q01543               | 2.00E-123          | NS                                            | 0.96   | 0.60   | 8.08    | 2.56         |
|          | Interferon regulatory factor 2 (IRF2)             | Transcriptional activator | Contig13671 | Q8R4E0               | 2.00E-043          | -0.78                                         | NS     | NS     | 5.00    | 2.30         |
| Cluster6 | Zinc finger protein PLAG1                         | Transcriptional repressor | Contig4325  | Q58NQ5               | 2.00E-020          | NS                                            | -2.29  | NS     | 9.37    | 2.48         |
|          | Nuclear factor NF-kappa-B p105 subunit (Nfkb1)    | Transcriptional repressor | Contig6439  | Q6F3J0               | 3.00E-110          | 0.48                                          | NS     | NS     | 6.20    | 2.42         |
|          | Transcriptional repressor CTCF                    | Transcriptional repressor | Contig31852 | Q08705               | 8.00E-074          | NS                                            | -0.54  | -0.51  | 4.76    | 2.27         |
| Cluster7 | Transcriptional repressor CTCF                    | Transcriptional repressor | Contig31852 | Q08705               | 8.00E-074          | NS                                            | -0.54  | -0.51  | 5.74    | 2.68         |
| Cluster8 | Nuclear factor NF-kappa-B p105 subunit (Nfkb1)    | Transcriptional repressor | Contig6439  | Q6F3J0               | 3.00E-110          | 0.48                                          | NS     | NS     | 6.27    | 2.11         |

- significant UP-regulation (padj < 0.05)

- significant DOWN-regulation (padj < 0.05)

NS

-non-significant