

## Supplemental Table 1

### Gene Ontology Pathway Analysis

#### Cluster 1

Go term Biological Process	Binom Raw p-value
multicellular organism development	1.48E-17
developmental process	1.96E-15
regionalization	5.90E-12
cell differentiation	8.97E-12
cellular developmental process	1.99E-11
pattern specification process	3.29E-11

#### Cluster 3

Go term Biological Process	Binom Raw p-value
defense response	2.38E-15
inflammatory response	1.11E-13
response to stress	1.15E-12
immune response	1.48E-12
regulation of angiogenesis	4.56E-09
endocytosis	3.08E-08

#### Cluster 4

Go term Biological Process	Binom Raw p-value
system development	3.01E-23
multicellular organism development	1.45E-22
developmental process	1.28E-20
cell differentiation	5.00E-18
extracellular matrix organization	2.82E-12
cell fate commitment	1.71E-08