**Supplementary File 9. GO analysis for MG\_cluster1 top genes only (S≥2)**

|  |  |  |
| --- | --- | --- |
| **GO\_ID** | **GO\_Term** | **S** |
| [GO:0016021](http://amigo.geneontology.org/amigo/term/GO%3A0016021) | membrane | 5 |
| [GO:0007186](http://amigo.geneontology.org/amigo/term/GO%3A0007186) | G protein-coupled receptor signaling pathway | 4 |
| [GO:0005615](http://amigo.geneontology.org/amigo/term/GO%3A0005615) | extracellular space | 3 |
| [GO:0005887](http://amigo.geneontology.org/amigo/term/GO%3A0005887) | plasma membrane | 3 |
| [GO:0043231](http://amigo.geneontology.org/amigo/term/GO%3A0043231) | intracellular membrane-bounded organelle | 3 |
| [GO:0045028](http://amigo.geneontology.org/amigo/term/GO%3A0045028) | G protein-coupled purinergic nucleotide receptor activity | 3 |
| [GO:0009897](http://amigo.geneontology.org/amigo/term/GO%3A0009897) | external side of plasma membrane | 2 |
| [GO:0019221](http://amigo.geneontology.org/amigo/term/GO%3A0019221) | cytokine-mediated signaling pathway | 2 |
| [GO:0032809](http://amigo.geneontology.org/amigo/term/GO%3A0032809) | neuronal cell body membrane | 2 |
| [GO:0035589](http://amigo.geneontology.org/amigo/term/GO%3A0035589) | G protein-coupled purinergic nucleotide receptor signaling pathway | 2 |
| [GO:0048246](http://amigo.geneontology.org/amigo/term/GO%3A0048246) | macrophage chemotaxis | 2 |
| [GO:0071407](http://amigo.geneontology.org/amigo/term/GO%3A0071407) | cellular response to organic cyclic compound | 2 |