

Table S7. List of top 5 categories of GO Term in “Stem cell-required DMRs”.

Molecular Function

| PantherID: Go Term | Count. Genes | % |
|-------------------------------------------------------------|--------------|-------|
| Genes with hypo-methylated stem cell-requiring DMRs | | |
| MF00042:Nucleic acid binding | 195 | 36.1% |
| MF00213:Non-receptor serine /threonine protein kinase | 112 | 20.7% |
| MF00262:Non-motor actin binding protein | 84 | 15.5% |
| MF00036:Transcription factor | 82 | 15.2% |
| MF00101:Guanyl-nucleotide exchange factor | 80 | 14.8% |
| Genes with hyper-methylated stem cell-requiring DMRs | | |
| MF00042:Nucleic acid binding | 559 | 30.8% |
| MF00213:Non-receptor serine /threonine protein kinase | 394 | 21.7% |
| MF00262:Non-motor actin binding protein | 322 | 17.7% |
| MF00212:Other G-protein modulator | 281 | 15.5% |
| MF00001:Receptor | 254 | 14.0% |

Biological Process

| PantherID: Go Term | Count. Genes | % |
|---------------------------------------|--------------|-------|
| Genes with SR-hypo-DMRs | | |
| BP00044:mRNA transcription regulation | 250 | 46.3% |
| BP00040:mRNA transcription | 164 | 30.4% |
| BP00071:Proteolysis | 131 | 24.3% |
| BP00102:Signal transduction | 125 | 23.1% |
| BP00150:MHCI-mediated immunity | 117 | 21.7% |
| Genes with SR-hyper-DMRs | | |
| BP00044:mRNA transcription regulation | 728 | 40.1% |
| BP00102:Signal transduction | 476 | 26.2% |
| BP00040:mRNA transcription | 451 | 24.8% |
| BP00071:Proteolysis | 433 | 23.9% |
| BP00143:Cation transport | 376 | 20.7% |