**Table S4. The top 10 GO enrichments of specific DEGs in Duroc pigs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **GO ID** | **GO terms** | **Category** | **Nunber of DEGs** | ***p*-value** |
| GO:0003341 | cilium movement | Biological process | 18 | 2.97E-12 |
| GO:0060271 | cilium assembly | Biological process | 39 | 2.97E-09 |
| GO:0006334 | nucleosome assembly | Biological process | 27 | 5.98E-09 |
| GO:0060285 | cilium-dependent cell motility | Biological process | 8 | 7.76E-09 |
| GO:0060294 | cilium movement involved in cell motility | Biological process | 7 | 3.26E-07 |
| GO:0036159 | inner dynein arm assembly | Biological process | 8 | 4.21E-07 |
| GO:0007018 | microtubule-based movement | Biological process | 19 | 7.71E-07 |
| GO:0035082 | axoneme assembly | Biological process | 9 | 8.46E-07 |
| GO:0036158 | outer dynein arm assembly | Biological process | 8 | 1.08E-06 |
| GO:0038111 | interleukin-7-mediated signaling pathway | Biological process | 7 | 1.09E-06 |
| GO:0000786 | nucleosome | Cellular component | 36 | 4.76E-17 |
| GO:0005930 | axoneme | Cellular component | 32 | 1.24E-16 |
| GO:0031514 | motile cilium | Cellular component | 22 | 3.19E-08 |
| GO:0005874 | microtubule | Cellular component | 53 | 9.77E-08 |
| GO:0036126 | sperm flagellum | Cellular component | 12 | 2.37E-07 |
| GO:0005929 | cilium | Cellular component | 31 | 9.64E-06 |
| GO:0002177 | manchette | Cellular component | 4 | 5.07E-05 |
| GO:0005833 | hemoglobin complex | Cellular component | 5 | 5.83E-05 |
| GO:0005871 | kinesin complex | Cellular component | 12 | 0.000129 |
| GO:0008250 | oligosaccharyltransferase complex | Cellular component | 5 | 0.000134 |
| GO:0045503 | dynein light chain binding | Molecular function | 15 | 3.04E-12 |
| GO:0008017 | microtubule binding | Molecular function | 45 | 1.33E-09 |
| GO:0008569 | ATP-dependent microtubule motor activity, minus-end-directed | Molecular function | 10 | 2.23E-08 |
| GO:0003777 | microtubule motor activity | Molecular function | 19 | 3.71E-08 |
| GO:0045505 | dynein intermediate chain binding | Molecular function | 11 | 3.82E-07 |
| GO:0045504 | dynein heavy chain binding | Molecular function | 8 | 4.21E-07 |
| GO:0046982 | protein heterodimerization activity | Molecular function | 59 | 1.49E-06 |
| GO:0051959 | dynein light intermediate chain binding | Molecular function | 11 | 2.06E-06 |
| GO:0031492 | nucleosomal DNA binding | Molecular function | 9 | 6.09E-06 |
| GO:0005234 | extracellularly glutamate-gated ion channel activity | Molecular function | 8 | 9.91E-06 |