Table 3: Enriched pathways for differentially expressed genes

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| --- | --- | --- | --- | --- |
| Enrichment Categories | Category Size | Probe Overlap | p-value | q-value |
| cotranslational protein targeting to membrane | 110 | 75 | 0.000000046 | 0.0003 |
| SRP-dependent cotranslational protein targeting to membrane | 108 | 74 | 0.000000069 | 0.0004 |
| protein targeting to ER | 111 | 74 | 0.0000004 | 0.003 |
| protein localization to endoplasmic reticulum | 118 | 76 | 0.00000042 | 0.003 |
| establishment of protein localization to endoplasmic reticulum | 115 | 75 | 0.0000006 | 0.004 |
| GlutatmatergicSynapse (Mouse) | 232 | 61 | 0.00000086 | 0.0055 |
| protein targeting to membrane | 156 | 82 | 0.000002 | 0.013 |
| translation | 264 | 110 | 0.000007 | 0.042 |
| viral transcription | 84 | 58 | 0.000007 | 0.044 |
| translational elongation | 114 | 64 | 0.000008 | 0.0499 |
| establishment of protein localization to organelle | 292 | 112 | 0.00001 | 0.066 |
| Post Synaptic Density Proteins | 1461 | 327 | 0.00001 | 0.067 |
| nuclear-transcribed mRNA catabolic process, nonsense-mediated decay | 117 | 71 | 0.00001 | 0.074 |
| protein localization to membrane | 276 | 102 | 0.00001 | 0.092 |
| Ribosome | 137 | 66 | 0.000016 | 0.11 |

Significantly enriched pathways from 5 libraries (GO, KEGG, Blood Atlas, Brain Lists and Immune Pathways) in our full list of 2199 genes differentially expressed probes. See supplementary table 3 for full list.