

Supplementary Table. Differentially expressed genes between control and PPD groups

| id | type | name | log2FC(GD/GC) | pval | fdr | regulate |
|--------------------|--------|---------------|---------------|----------|-------------|----------|
| ENSMUSG00000054074 | mRNA | Skida1 | -4.059131148 | 4.22E-47 | 7.25E-43 | down |
| ENSMUSG00000053004 | mRNA | Hrh1 | 2.816998418 | 6.35E-16 | 5.45E-12 | up |
| ENSMUSG00000038178 | mRNA | Slc43a2 | 1.403245835 | 1.44E-15 | 8.24E-12 | up |
| ENSMUSG00000032484 | mRNA | Ngp | -3.032195491 | 7.20E-13 | 3.09E-09 | down |
| ENSMUSG00000103677 | mRNA | Pcdhga4 | -2.444296501 | 1.31E-12 | 4.50E-09 | down |
| ENSMUSG00000090031 | lncRNA | 4732440D04Rik | 2.641215914 | 3.16E-12 | 9.03E-09 | up |
| ENSMUSG00000038145 | mRNA | Snrk | 1.131226533 | 7.87E-12 | 1.93E-08 | up |
| ENSMUSG00000109754 | lncRNA | Gm39214 | -2.672129766 | 5.69E-10 | 1.22E-06 | down |
| ENSMUSG00000066735 | mRNA | Vkorc111 | -1.225006946 | 9.43E-09 | 1.80E-05 | down |
| ENSMUSG00000087563 | lncRNA | Gm14205 | 7.723717533 | 2.09E-08 | 3.59E-05 | up |
| ENSMUSG00000045573 | mRNA | Penk | -1.498798792 | 1.15E-06 | 0.001646706 | down |
| ENSMUSG00000094695 | mRNA | Gm21953 | 4.894733705 | 1.36E-06 | 0.001801382 | up |
| ENSMUSG00000027852 | mRNA | Nras | -1.589186742 | 4.09E-06 | 0.004579247 | down |
| ENSMUSG00000041534 | mRNA | Rbp3 | -1.341444052 | 4.27E-06 | 0.004579247 | down |
| ENSMUSG00000005892 | mRNA | Trh | 2.139362423 | 8.39E-06 | 0.008470327 | up |
| ENSMUSG00000049421 | mRNA | Zfp260 | -1.758463962 | 1.02E-05 | 0.009235512 | down |
| ENSMUSG00000053119 | mRNA | Chmp3 | -1.164333628 | 1.15E-05 | 0.00984957 | down |
| ENSMUSG00000093989 | mRNA | Rnasek | 1.358751263 | 1.56E-05 | 0.012731231 | up |
| ENSMUSG00000035829 | mRNA | Ppp1r26 | 1.48530434 | 1.79E-05 | 0.013958752 | up |
| ENSMUSG00000029711 | mRNA | Epo | -4.305005399 | 2.88E-05 | 0.021068064 | down |
| ENSMUSG00000045238 | lncRNA | A730035I17Rik | -1.926173533 | 2.94E-05 | 0.021068064 | down |
| ENSMUSG00000075334 | mRNA | Rprm | -1.171088864 | 3.36E-05 | 0.022167348 | down |
| ENSMUSG00000049281 | mRNA | Scn3b | 1.19790544 | 3.36E-05 | 0.022167348 | up |
| ENSMUSG00000042523 | mRNA | Dnal1 | 1.9593073 | 4.40E-05 | 0.027001684 | up |
| ENSMUSG00000038797 | mRNA | Zscan2 | 1.485104121 | 5.47E-05 | 0.03132668 | up |
| ENSMUSG00000104674 | lncRNA | Gm42756 | 1.531618517 | 5.83E-05 | 0.032296743 | up |
| ENSMUSG00000001119 | mRNA | Col6a1 | -1.139747859 | 7.57E-05 | 0.038251241 | down |

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To avoid false positive errors, multiple test correction method was used to correct the significant

p-value obtained from the original hypothesis test, and finally false discovery rate (FDR) was used as

key index for screening differentially expressed genes. $FDR < 0.05$