**Table S1: The genes showing alterations with marginal significance in HIV-1 Tg rats**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Region | Gene symbol | Gene name | FC ± STD | P-value | FDR |
| PFC | Aspa | Aspartoacylase  | 0.74 ± 0.14 | 0.022 | 0.32 |
| Ccr2 | C-C chemokine receptor type 2  | 0.52 ± 0.48 | 0.027 | 0.34 |
| Chrna4 | Neuronal acetylcholine receptor subunit alpha-4  | 1.71 ± 0.10 | 0.005 | 0.21 |
| Drd4 | D(4) dopamine receptor  | 0.58 ± 0.43 | 0.037 | 0.37 |
| Gabbr2 | Gamma-aminobutyric acid type B receptor subunit 2  | 1.31 ± 0.09 | 0.030 | 0.35 |
| Il13ra2 | Interleukin-13 receptor subunit alpha-2  | 0.66 ± 0.26 | 0.025 | 0.33 |
| Il4ra | Interleukin-4 receptor subunit alpha  | 0.52 ± 0.41 | 0.007 | 0.22 |
| MBP\_RAT | Myelin basic protein S  | 0.76 ± 0.13 | 0.013 | 0.27 |
| Mog | Myelin-oligodendrocyte glycoprotein  | 0.71 ± 0.20 | 0.027 | 0.34 |
| Mpz | Myelin protein P0  | 0.70 ± 0.21 | 0.024 | 0.33 |
| HIP | Gria3 | Glutamate receptor 3  | 1.34 ± 0.10 | 0.042 | 0.42 |
| Grik1 | Glutamate receptor, ionotropic kainate 1  | 1.39 ± 0.09 | 0.015 | 0.34 |
| Grin2a | Glutamate [NMDA] receptor subunit epsilon-1  | 1.33 ± 0.08 | 0.012 | 0.32 |
| Gabrr2 | Gamma-aminobutyric acid receptor subunit rho-2  | 1.55 ± 0.10 | 0.013 | 0.33 |

Note: Marginal significance was defined as 0.005 <p <0.05 with over 20% change in expression.