

Table S7. List of Upregulated genes in colon of THC/SIV rhesus macaques compared to controls

| Gene Symbol                               | Gene Name                                                    | Fold Change | P value |
|-------------------------------------------|--------------------------------------------------------------|-------------|---------|
| <b><i>Inflammatory signaling</i></b>      |                                                              |             |         |
| S100A8                                    | S100 calcium binding protein A8                              | 21.1        | 0.0289  |
| IL8                                       | interleukin 8                                                | 11.1        | 0.0047  |
| IL34                                      | interleukin 34                                               | 2.1         | 0.0417  |
| <b><i>Anti-Inflammatory signaling</i></b> |                                                              |             |         |
| IL33                                      | interleukin 33                                               | 1.9         | 0.0478  |
| TNFSF18                                   | tumor necrosis factor (ligand) superfamily, member 18        | 5.7         | 0.0115  |
| <b><i>Anti-Microbial Signaling</i></b>    |                                                              |             |         |
| CXCL10                                    | chemokine (C-X-C motif) ligand 10                            | 16.6        | 0.0294  |
| CXCL14                                    | chemokine (C-X-C motif) ligand 14                            | 1.4         | 0.0250  |
| <b><i>Anti-HIV/SIV Signaling</i></b>      |                                                              |             |         |
| CCL3                                      | chemokine (C-C motif) ligand 3                               | 4.7         | 0.0075  |
| CCL8                                      | chemokine (C-C motif) ligand 8                               | 4.7         | 0.0228  |
| CCL4L1                                    | chemokine (C-C motif) ligand 4-like 1                        | 1.9         | 0.0270  |
| <b><i>Interferon Signaling</i></b>        |                                                              |             |         |
| IFIT1B                                    | interferon-induced protein with tetratricopeptide repeats 1B | 11.3        | 0.0407  |
| MX1                                       | myxovirus (influenza virus) resistance 1                     | 6.3         | 0.0033  |
| IFI27                                     | ISG12(c) protein-like                                        | 5.9         | 0.0079  |
| IFIT1                                     | interferon-induced protein with tetratricopeptide repeats 1  | 5.6         | 0.0332  |
| STAT1                                     | signal transducer and activator of transcription 1, 91kDa    | 4.0         | 0.0456  |
| IRF2                                      | interferon regulatory factor 2                               | 1.7         | 0.0379  |
| IRF9                                      | interferon regulatory factor 9                               | 2.6         | 0.0447  |
| <b><i>Autophagy</i></b>                   |                                                              |             |         |
| DRAM1                                     | DNA-damage regulated autophagy modulator 1                   | 2.4         | 0.0457  |
| ATGR12                                    | autophagy related 12                                         | 1.5         | 0.0157  |