

Molecular and metabolomic changes in the proximal colon of pigs infected with *Trichuris suis*

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Supplemental Table S3

Supplemental Table S3. DEGs in the proximal colon of infected over control pigs at 21 days after inoculation.

Feature ID	Fold change	EDGE test: FDR p-value correction
PLA2G2A	-1633.2	1.33E-05
OLIG2	-143.0	1.09E-03
ZFP42	-89.1	3.67E-11
DNAH14	-60.4	1.56E-02
COL22A1	-56.8	1.34E-02
ADAM1A	-52.9	1.87E-02
ASTL	-49.0	2.75E-02
FABP3L2*	-44.6	1.84E-04
ABCC4L3	-23.7	8.32E-19
LIPM	-19.0	2.62E-02
ZSCAN9	-18.9	4.68E-02
CD40	-17.7	4.10E-02
MIR1279	-16.9	4.50E-05
SLC22A10L3	-14.0	1.75E-03
HOXC9	-12.3	5.27E-03
ABCC4L4	-12.2	7.35E-07
FCER2	-12.0	1.34E-02
AGTR2	-11.5	3.94E-03
ALDOB	-10.6	8.40E-19
CCL3L2	-10.6	5.90E-03
MIR1244-1	-9.7	6.08E-03
SLC30A10	-9.4	2.71E-13
OAZ3	-8.8	2.23E-02
SLC14A1	-7.9	9.93E-11
TRPV6	-7.7	1.24E-06
HMGCS2	-7.2	0.00E+00
CD200R1L	-6.9	7.81E-03
ABCA8	-6.8	4.42E-10
PHEX	-6.8	1.81E-02
ABCA6	-6.4	3.40E-08
CXCL9	-6.1	7.08E-08
CCR9	-5.8	1.14E-02
CXCL13	-5.8	5.77E-08
COL6A6	-5.7	3.51E-08
COL25A1	-5.6	7.28E-04
AGT	-5.6	1.62E-05
S100G	-5.6	3.09E-05
CCL3L1	-5.6	2.84E-03
ABCA9	-5.5	3.06E-08
MOGAT2	-5.4	8.78E-03
AICDA	-5.3	8.16E-04
CR2	-5.2	3.00E-14
FCRL1	-5.0	1.34E-02
SLC24A4	-4.9	8.53E-03
CYP26B1	-4.8	9.76E-03

MUSK	-4.8	5.12E-05
ZNF354B	-4.7	1.05E-02
PDK4	-4.6	5.99E-03
PLIN1	-4.3	4.50E-05
CD5L	-4.2	2.41E-02
GPR174	-4.1	4.81E-08
HAS3	-4.0	4.07E-05
TNFSF11	-4.0	1.83E-03
CYP1B1	-3.9	2.93E-04
IDO1	-3.8	6.52E-05
FCRLA	-3.8	3.49E-02
NR1H4	-3.7	1.44E-02
SLC7A3L7*	-3.6	4.06E-04
CLEC17A	-3.6	4.30E-03
ABCG2	-3.5	9.73E-07
SLC25A53	-3.5	2.19E-02
NXPE2	-3.4	2.01E-03
KLRK1	-3.4	6.23E-09
ABCC4L2	-3.4	2.05E-10
MAMDC2	-3.4	3.09E-05
GHR	-3.4	2.10E-05
ART3	-3.3	3.07E-02
PNLIPRP2	-3.3	7.77E-06
ADORA3	-3.3	5.03E-03
GCNT4	-3.3	6.50E-03
AQP8	-3.3	3.30E-04
XCL1	-3.3	3.63E-03
AGTR1	-3.2	6.35E-04
ABCA13	-3.2	3.49E-02
PF4	-3.2	1.71E-02
CD28	-3.2	1.08E-02
CLCA4	-3.1	1.16E-02
FBXO32	-3.1	9.94E-05
ABI3BP	-3.0	8.43E-06
DDIT4L	-3.0	2.84E-04
EDIL3	-3.0	3.93E-07
CR1	-3.0	1.86E-02
CHRM2	-3.0	7.15E-03
LY9L1*	-3.0	1.09E-02
SNORA32	-3.0	1.95E-02
KLF12	-2.9	1.06E-03
CHP2	-2.9	1.12E-05
PAX5	-2.8	2.30E-02
RPL11L	-2.8	7.05E-03
CCL8	-2.8	4.24E-02
ASPA	-2.8	1.01E-02
NGLY1	-2.8	4.52E-07

HDAC9	-2.7	7.28E-04
IL15	-2.7	3.09E-02
AR	-2.7	4.53E-02
ADAMTS19	-2.6	1.33E-02
LIFR	-2.6	3.03E-05
RHOH	-2.6	2.84E-03
HOXD10	-2.6	1.85E-02
NEGR1	-2.6	9.36E-03
ADGRE4	-2.6	1.56E-03
CTBS	-2.5	3.96E-02
CELF2	-2.5	4.04E-06
CD1D	-2.5	2.89E-03
GPNMB	-2.5	3.04E-05
BMP3	-2.5	2.94E-03
SLC26A3	-2.5	8.05E-03
PADI2	-2.5	1.60E-04
TNFSF13B	-2.5	2.69E-04
KCNJ2	-2.5	2.94E-04
NT5E	-2.5	1.78E-04
DAPK1	-2.5	8.50E-03
PRSS12	-2.5	5.62E-03
SLA-DQB1	-2.5	1.55E-03
BTC	-2.4	1.84E-02
LYPD6	-2.4	1.56E-02
SLA-DMB	-2.4	3.61E-04
PPFIA4	-2.4	2.68E-02
C4BPAL	-2.4	3.78E-02
IPCEF1	-2.3	2.46E-02
DMD	-2.3	4.69E-05
C3AR1	-2.3	5.27E-03
KIT	-2.3	2.04E-02
PDGFC	-2.3	2.70E-03
RPL35A	-2.3	1.95E-03
CXCL12	-2.3	5.03E-03
CNTN1	-2.3	2.41E-02
CST3	-2.3	3.93E-04
GPR82	-2.2	1.35E-02
AHRR	-2.2	2.98E-02
LPXN	-2.2	1.56E-03
SLC16A1	-2.2	1.59E-03
PTPN7	-2.2	1.83E-03
EGLN3	-2.2	1.65E-03
CD4	-2.2	1.61E-02
ADIPOQ	-2.2	4.06E-03
ADAMTS5	-2.2	1.84E-02
APH1B	-2.2	3.53E-02
TMTC1	-2.2	2.39E-02

SESN3	-2.2	5.41E-04
CHL1	-2.2	1.49E-02
SMAD9	-2.2	3.79E-04
ZNF672	-2.1	1.41E-02
TLR8	-2.1	1.41E-02
PGM5	-2.1	8.60E-04
DTNA	-2.1	2.37E-02
MPEG1	-2.1	7.99E-03
SLC8A1	-2.1	2.28E-03
CD302	-2.1	6.84E-03
CD3G	-2.1	8.80E-03
SLAMF6	-2.1	4.40E-02
HPSE	-2.1	4.45E-03
MAF	-2.1	1.40E-02
RARRES1	-2.0	2.81E-03
PIK3AP1	-2.0	6.93E-03
PLXNC1	-2.0	1.18E-03
CCL2	-2.0	1.38E-03
ZNF568	-2.0	1.33E-02
FAM65B	-2.0	2.68E-02
LRIG2	-2.0	5.03E-03
SDPR	-2.0	4.88E-03
SLC22A5	-2.0	4.83E-02
TLR7	-2.0	4.66E-02
RDH10	-2.0	2.25E-02
PCMTD2	-2.0	2.03E-02
CALD1	-2.0	5.64E-03
CYP4V2	-2.0	1.52E-02
COL6A5	-2.0	1.50E-02
SLC4A7	-2.0	2.41E-02
NPL	-1.9	2.41E-02
MAFB	-1.9	5.99E-03
ABCA1	-1.9	5.62E-03
C5	-1.9	1.14E-02
NFATC2	-1.9	4.03E-02
CD48	-1.9	1.09E-02
LRP12	-1.9	2.33E-02
ALDH6A1	-1.9	5.11E-03
SLC25A3	-1.9	2.19E-02
FGL2	-1.9	2.08E-02
DOCK10	-1.9	1.58E-02
SLA-DMA	-1.9	1.99E-02
NREP	-1.9	1.71E-02
SATB1	-1.9	1.64E-02
CFL2	-1.9	2.19E-02
CD2	-1.8	9.24E-03
BANK1	-1.8	4.81E-02

LY9	-1.8	4.79E-02
ERAP1	-1.8	3.18E-02
PPAP2B	-1.8	1.44E-02
RBMS1	-1.8	1.68E-02
FRZB	-1.8	3.93E-02
DIXDC1	-1.8	2.08E-02
IGJ	-1.8	1.92E-02
AHCYL2	-1.8	2.15E-02
IGSF5	-1.8	1.18E-02
SLA-3	-1.8	3.72E-02
ITGAE	-1.8	4.27E-02
PTCH1	-1.8	3.72E-02
ITGA4	-1.7	4.03E-02
SCARA5	-1.7	3.55E-02
CDC42EP3	-1.7	4.01E-02
PAG1	-1.7	4.72E-02
SYNE1	-1.7	3.52E-02
KCTD12	-1.7	4.66E-02
CRLF3	-1.7	4.24E-02
COL14A1	-1.7	3.72E-02
MPDZ	-1.7	3.53E-02
CYP7B1	-1.7	4.83E-02
CD109	-1.7	4.15E-02
TSPAN7	-1.7	4.78E-02
SEC11C	1.7	4.83E-02
MIF	1.7	4.03E-02
PLA2G16	1.8	4.03E-02
GLUL	1.8	4.41E-02
SLC35C1	1.8	4.89E-02
TARS	1.8	3.43E-02
MAZ	1.8	3.53E-02
S100A14	1.8	2.70E-02
SMARCE1	1.8	1.98E-02
SERPINB8	1.8	2.66E-02
FOXA1	1.8	3.01E-02
PIK3C2A	1.8	2.22E-02
PMPCA	1.8	3.50E-02
WDR1	1.9	4.04E-02
MIR1282	1.9	2.53E-02
CFL1	1.9	4.46E-02
IGFBP5	1.9	2.01E-02
MCF2L	1.9	1.98E-02
PRTFDC1	1.9	1.86E-02
NDUFA6	1.9	1.39E-02
DDX54	1.9	4.32E-02
MRPL51	1.9	1.72E-02
LSS	1.9	3.03E-02

LRRC59	1.9	3.60E-02
MKI67	1.9	1.58E-02
SUMO4	1.9	3.77E-02
STARD10	1.9	1.91E-02
BOLA2	1.9	2.95E-02
PSMB7	1.9	7.05E-03
SLC39A7	1.9	9.92E-03
MAGOH	1.9	1.71E-02
PTN	1.9	1.03E-02
CNOT3	2.0	3.50E-02
CENPJ	2.0	4.45E-02
SKA2	2.0	9.87E-03
ATOH1	2.0	2.41E-02
HSD11B1	2.0	2.19E-02
SMPDL3B	2.0	1.67E-02
FDPS	2.0	3.53E-02
SERPINB6	2.0	1.67E-02
TIMM17A	2.0	1.40E-02
SLC25A1	2.0	4.03E-02
CXCL16	2.0	2.89E-03
LRRC8A	2.0	1.64E-02
SEMA7A	2.1	2.41E-02
PSTPIP2	2.1	5.66E-03
GADD45B	2.1	4.75E-02
SMAGP	2.1	4.78E-02
ARHGDI1A	2.1	1.87E-02
HDLBP	2.1	1.81E-02
UAP1L1	2.1	1.98E-02
ERN2	2.1	1.54E-02
DPP9	2.1	5.03E-03
TGM2	2.2	7.15E-03
SERPINB5	2.2	1.56E-03
PYCR1	2.2	4.03E-02
BCL3	2.2	2.84E-03
PKM	2.2	2.62E-02
DPRX	2.2	1.71E-02
TRAPPC6A	2.2	4.81E-02
TUBA1C	2.2	3.01E-02
TMEM54	2.2	1.11E-02
CDH1	2.2	3.28E-03
AREG	2.2	8.37E-03
ROS1	2.2	8.87E-04
RIPK3	2.3	1.33E-02
UBE2S	2.3	2.19E-02
CCNB2	2.3	3.45E-04
ADAMTS1	2.3	4.06E-04
B3GNT6	2.3	7.21E-03

ABCA12	2.3	4.40E-02
CABIN1	2.3	1.96E-03
FFAR4	2.3	2.68E-02
MYBL2	2.4	3.34E-03
P2RX4	2.4	8.14E-04
CYP2B22	2.4	4.65E-02
ND1	2.4	1.59E-03
LIPH	2.4	1.88E-04
TACC3	2.4	6.84E-03
DEPDC7	2.4	3.67E-02
GCNT3	2.4	4.06E-04
IL1A	2.4	1.55E-03
HMGA1	2.4	5.03E-03
FAM20C	2.4	2.79E-02
BGN	2.5	1.81E-02
HSPA1L	2.5	4.83E-02
PFKFB3	2.5	7.15E-03
GALNT6	2.5	5.55E-03
TNFRSF26	2.5	2.44E-02
NT5DC2	2.5	2.37E-02
CSRP2	2.5	1.20E-02
PTPRN2	2.5	3.72E-02
BIRC5	2.6	1.37E-03
KCNE3	2.6	3.51E-05
FGF7	2.6	5.67E-04
TUBB3	2.6	2.11E-03
ITGB6	2.6	7.63E-03
GSTA1	2.7	4.73E-02
CDX1	2.7	1.73E-03
PNP	2.7	1.83E-03
KCNJ11	2.7	3.31E-02
TPSB2	2.8	2.68E-02
RRBP1	2.8	8.06E-05
PHLDA2	2.8	2.79E-03
MDK	2.8	4.44E-04
FCN2	2.9	9.94E-05
CAPNS2	2.9	2.12E-03
PLA2G3	2.9	4.90E-03
SPDEF	3.0	1.13E-04
BPIFB2	3.0	3.18E-02
LAMB3	3.0	6.87E-04
ME1	3.1	9.19E-03
FUT2	3.1	1.38E-03
F3	3.1	4.09E-05
ETV4	3.1	4.03E-02
ABAT	3.2	1.73E-05
SLC7A5	3.3	1.30E-03

FABP3	3.3	3.51E-08
HK2	3.3	1.33E-05
STEAP4	3.4	5.33E-03
CLDN8	3.5	1.41E-02
CLCA1	3.5	9.80E-09
PRKCG	3.5	4.38E-02
SERPINB10	3.5	2.87E-04
DIO2	3.5	1.15E-03
DNAH8	3.7	3.59E-02
IGFBP4	3.7	6.25E-07
TNFSF18	3.8	3.17E-02
NRG1	3.8	2.41E-02
TIMP1	3.9	2.94E-04
LOC396756	4.0	1.51E-06
PTGS2	4.0	1.30E-07
TNFRSF8	4.0	2.04E-02
SLC9C1	4.1	7.81E-04
CHI3L2	4.2	4.97E-04
GNMT	4.3	2.10E-02
AKR1C4	4.3	2.30E-05
SLC7A11	4.3	6.75E-07
TLE6	4.4	1.34E-02
CXCL14	4.4	2.73E-06
PDZK1IP1L	4.5	1.44E-02
CXCL17	4.5	7.44E-06
TNIP3	4.5	5.90E-06
BAALC	4.5	3.96E-03
BDKRB1	4.6	1.70E-02
PI3	4.6	2.55E-08
KRT18	4.7	7.48E-10
SAPCD2	4.7	1.19E-03
PLAUR	4.8	6.11E-06
SLPI	4.8	2.22E-11
COL28A1	4.9	5.31E-06
MMP3	4.9	3.31E-10
PHGDH	5.0	9.01E-04
IL17C	5.0	7.15E-03
SLC5A8	5.0	1.13E-04
GSTA2	5.4	4.30E-03
BTN1A1L2*	5.4	2.54E-02
CA4	5.5	9.51E-10
CBS	5.5	7.18E-05
AGR2	5.6	1.73E-11
SDS	5.7	8.06E-05
MIR6087	6.0	1.14E-02
IL1R2	6.1	1.51E-06
MUC2	6.3	2.16E-16

CHI3L1	6.4	1.03E-13
B3GNT7	6.4	1.16E-05
UPK1B	6.5	1.59E-03
TAT	6.9	3.49E-02
GSTP1L2*	6.9	3.53E-02
RNF39	7.0	1.51E-06
IL36A	7.2	2.58E-03
MMP1	7.3	6.53E-13
TCN1	8.0	1.44E-10
SPINK4	8.1	9.43E-22
S100A8	8.2	1.02E-02
MPTX	8.3	4.03E-15
SERPINB11	8.4	7.38E-04
SLCO1A2	8.6	6.00E-04
SP6	9.3	1.01E-02
HCAR2	9.3	6.76E-05
MMP9	9.3	1.00E-02
ADAM30	9.6	8.58E-03
MMP12	9.7	4.45E-16
S100A9	9.8	1.83E-03
TGM3	10.0	3.03E-05
S100A2	10.0	3.03E-27
REG4	11.1	8.84E-20
IGHG1	11.1	3.80E-06
HTR1B	11.8	2.40E-02
GYS2	11.9	5.62E-03
S100A12	12.8	4.09E-05
PDZK1IP1*	13.6	1.24E-05
AKR1C1	13.8	3.93E-07
GABRP	15.7	1.59E-03
A2ML1	16.0	2.14E-03
SERPINB2	16.2	4.90E-32
SLC6A2	18.7	1.53E-02
PSAT1	20.6	4.69E-11
IL11	21.6	6.84E-03
TFF1	25.9	2.62E-06
MMP13	27.5	9.71E-29
ARG1	30.1	2.28E-07
IL36B	30.8	1.02E-02
ANXA8	34.8	6.97E-40
TFF2	37.1	6.93E-10
MMP7	53.1	4.09E-05
IFITM1L3*	63.2	1.59E-02
HOXB13	132.7	1.59E-02
SLC7A3L11*	188.2	1.59E-03
IL4I1L	437.7	1.59E-14