

**S3 Table: Top 100 genes displaying reduced expression, macroschizont (Day 0) to merozoite stage (Day 9)**

Gene ID	Annotation	FC	RP score	EE	FDR
TA19865	surface protein d precursor	-3.38	$7.04 \times 10^{-31}$	0.00	0.0000
TA11410	Theileria-specific sub-telomeric protein, SVSP family, putative	-3.20	$1.01 \times 10^{-28}$	0.00	0.0000
TA11405	subtelomeric sfi-fragment-related protein family member, putative	-3.12	$6.57 \times 10^{-28}$	0.00	0.0000
TA15705	hypothetical protein (ta9)	-3.10	$2.17 \times 10^{-27}$	0.00	0.0000
TA09805	Theileria-specific sub-telomeric protein, SVSP family	-2.93	$7.76 \times 10^{-26}$	0.00	0.0000
TA10505	hypothetical protein	-2.91	$1.76 \times 10^{-25}$	0.00	0.0000
TA09790	Theileria-specific sub-telomeric protein, SVSP family	-2.69	$8.78 \times 10^{-24}$	0.00	0.0000
TA18010	integral membrane protein, putative	-2.69	$1.44 \times 10^{-23}$	0.00	0.0000
TA09420	Theileria-specific sub-telomeric protein, SVSP family, putative	-2.61	$2.04 \times 10^{-23}$	0.00	0.0000
TA02480	hexose transporter (HT1 homologue), putative	-2.61	$3.93 \times 10^{-23}$	0.00	0.0000
TA05580	Theileria-specific sub-telomeric protein, SVSP family	-2.59	$4.48 \times 10^{-23}$	0.00	0.0000
TA15695	hypothetical protein	-2.64	$4.76 \times 10^{-23}$	0.00	0.0000
TA09810	Theileria-specific sub-telomeric protein, SVSP family	-2.54	$6.70 \times 10^{-23}$	0.00	0.0000
TA09435	Theileria-specific sub-telomeric protein, SVSP family, putative	-2.52	$3.11 \times 10^{-22}$	0.00	0.0000
TA15710	hypothetical protein	-2.50	$4.99 \times 10^{-22}$	0.00	0.0000
TA18895	conserved Theileria-specific sub-telomeric protein, SVSP family	-2.43	$7.76 \times 10^{-22}$	0.00	0.0000
TA09430	Theileria-specific sub-telomeric protein, SVSP family, putative	-2.40	$1.95 \times 10^{-21}$	0.01	0.0006
TA17555	Theileria-specific sub-telomeric protein, SVSP family	-2.40	$2.15 \times 10^{-21}$	0.01	0.0006

<b>TA11940</b>	hypothetical protein	-2.39	$2.68 \times 10^{-21}$	0.01	0.0005
<b>TA09815</b>	Sfil-subtelomeric fragment related protein family member, putative	-2.36	$3.82 \times 10^{-21}$	0.02	0.0010
<b>TA09800</b>	Theileria-specific sub-telomeric protein, SVSP family	-2.37	$4.30 \times 10^{-21}$	0.02	0.0010
<b>TA10530</b>	hypothetical protein	-2.35	$5.18 \times 10^{-21}$	0.02	0.0009
<b>TA17545</b>	Theileria-specific sub-telomeric protein, SVSP family	-2.25	$4.52 \times 10^{-20}$	0.05	0.0022
<b>TA05575</b>	Theileria-specific sub-telomeric protein, SVSP family	-2.24	$5.32 \times 10^{-20}$	0.05	0.0021
<b>TA19005</b>	conserved Theileria-specific sub-telomeric protein, SVSP family	-2.23	$7.05 \times 10^{-20}$	0.07	0.0028
<b>TA17125</b>	Theileria-specific sub-telomeric protein, SVSP family	-2.19	$1.21 \times 10^{-19}$	0.08	0.0031
<b>TA09505</b>	Sfil-subtelomeric fragment related protein family member, putative	-2.18	$2.01 \times 10^{-19}$	0.09	0.0033
<b>TA18890</b>	conserved Theileria-specific sub-telomeric protein, SVSP family	-2.17	$2.72 \times 10^{-19}$	0.09	0.0032
<b>TA20095</b>	Tashat2 protein	-2.13	$6.55 \times 10^{-19}$	0.15	0.0052
<b>TA02905</b>	hypothetical protein	-2.04	$8.61 \times 10^{-19}$	0.16	0.0053
<b>TA16035</b>	Theileria-specific sub-telomeric protein, SVSP family, putative	-2.09	$8.76 \times 10^{-19}$	0.16	0.0052
<b>TA16030</b>	Theileria-specific sub-telomeric protein, SVSP family, putative	-2.07	$1.10 \times 10^{-18}$	0.17	0.0053
<b>TA09510</b>	Sfil-subtelomeric fragment related protein family member, putative	-1.98	$1.21 \times 10^{-18}$	0.17	0.0052
<b>TA12265</b>	Sfil-subtelomeric fragment related protein family member, putative	-2.08	$1.23 \times 10^{-18}$	0.17	0.0050
<b>TA11945</b>	hypothetical protein	-2.06	$1.73 \times 10^{-18}$	0.19	0.0054
<b>TA04675</b>	hypothetical protein	-1.98	$1.93 \times 10^{-18}$	0.19	0.0053
<b>TA11400</b>	Sfil-subtelomeric fragment related protein family member, putative	-2.05	$2.20 \times 10^{-18}$	0.20	0.0054
<b>TA16090</b>	glutenin, putative	-1.97	$2.95 \times 10^{-18}$	0.21	0.0055

<b>TA17485</b>	hypothetical protein	-1.90	$4.18 \times 10^{-18}$	0.21	0.0054
<b>TA05540</b>	Theileria-specific sub-telomeric protein, SVSP family	-2.01	$5.41 \times 10^{-18}$	0.23	0.0058
<b>TA10420</b>	hypothetical protein	-1.93	$5.90 \times 10^{-18}$	0.23	0.0056
<b>TA05960</b>	Tpr-related protein family member, putative	-1.88	$7.87 \times 10^{-18}$	0.28	0.0067
<b>TA18950</b>	conserved Theileria-specific sub-telomeric protein, SVSP family	-1.96	$1.15 \times 10^{-17}$	0.30	0.0070
<b>TA15015</b>	Tpr-related protein family member, putative	-1.94	$1.31 \times 10^{-17}$	0.30	0.0068
<b>TA05565</b>	Theileria-specific sub-telomeric protein, SVSP family	-1.93	$2.12 \times 10^{-17}$	0.37	0.0082
<b>TA18865</b>	conserved Theileria-specific sub-telomeric protein, SVSP family	-1.93	$2.15 \times 10^{-17}$	0.37	0.0080
<b>TA17915</b>	hypothetical protein	-1.82	$2.96 \times 10^{-17}$	0.43	0.0091
<b>TA16025</b>	Theileria-specific sub-telomeric protein, SVSP family, putative	-1.91	$3.02 \times 10^{-17}$	0.43	0.0090
<b>TA07475</b>	Sfil-subtelomeric fragment related protein family member, putative	-1.81	$3.60 \times 10^{-17}$	0.49	0.0100
<b>TA18540</b>	hypothetical protein	-1.77	$3.99 \times 10^{-17}$	0.51	0.0102
<b>TA05150</b>	hypothetical protein, conserved	-1.87	$5.19 \times 10^{-17}$	0.54	0.0106
<b>TA17375</b>	polymorphic antigen precursor, putative	-1.79	$5.83 \times 10^{-17}$	0.56	0.0108
<b>TA11950</b>	hypothetical P-, Q-rich protein family protein, putative	-1.78	$6.87 \times 10^{-17}$	0.56	0.0106
<b>TA16185</b>	haloacid dehalogenase-like family hydrolase, putative	-1.78	$7.17 \times 10^{-17}$	0.59	0.0109
<b>TA09425</b>	Theileria-specific sub-telomeric protein, SVSP family, putative	-1.84	$9.61 \times 10^{-17}$	0.67	0.0122
<b>TA11385</b>	Theileria-specific sub-telomeric protein, SVSP family, putative	-1.84	$1.03 \times 10^{-16}$	0.67	0.0120
<b>TA17120</b>	Theileria-specific sub-telomeric protein, SVSP family	-1.83	$1.34 \times 10^{-16}$	0.71	0.0125
<b>TA04470</b>	hypothetical protein	-1.72	$1.68 \times 10^{-16}$	0.81	0.0140
<b>TA05560</b>	Theileria-specific sub-telomeric protein, SVSP family	-1.77	$2.21 \times 10^{-16}$	0.84	0.0142

<b>TA19060</b>	conserved Theileria-specific sub-telomeric protein, SVSP family	-1.72	$2.22 \times 10^{-16}$	0.84	0.0140
<b>TA05965</b>	Tpr-related protein family member, putative	-1.65	$2.22 \times 10^{-16}$	0.84	0.0138
<b>TA05555</b>	Theileria-specific sub-telomeric protein, SVSP family	-1.77	$2.31 \times 10^{-16}$	0.84	0.0135
<b>TA10655</b>	hypothetical protein, conserved	-1.71	$2.50 \times 10^{-16}$	0.85	0.0135
<b>TA17550</b>	Theileria-specific sub-telomeric protein, SVSP family	-1.78	$2.56 \times 10^{-16}$	0.87	0.0136
<b>TA05570</b>	Theileria-specific sub-telomeric protein, SVSP family	-1.79	$2.64 \times 10^{-16}$	0.89	0.0137
<b>TA03125</b>	Tash1-like protein, putative	-1.69	$2.89 \times 10^{-16}$	0.94	0.0142
<b>TA11415</b>	Sfil-subtelomeric fragment related protein family member, putative	-1.77	$3.73 \times 10^{-16}$	1.01	0.0151
<b>TA17540</b>	Theileria-specific sub-telomeric protein, SVSP family	-1.76	$3.77 \times 10^{-16}$	1.01	0.0149
<b>TA13350</b>	hypothetical protein	-1.74	$4.01 \times 10^{-16}$	1.01	0.0146
<b>TA04895</b>	hypothetical protein, conserved	-1.61	$4.98 \times 10^{-16}$	1.05	0.0150
<b>TA15580</b>	hypothetical protein	-1.57	$5.57 \times 10^{-16}$	1.14	0.0161
<b>TA11935</b>	hypothetical protein	-1.75	$5.69 \times 10^{-16}$	1.16	0.0161
<b>TA03120</b>	Tash-like protein, putative	-1.64	$5.84 \times 10^{-16}$	1.17	0.0160
<b>TA16555</b>	hypothetical protein	-1.62	$6.38 \times 10^{-16}$	1.19	0.0161
<b>TA05545</b>	Theileria-specific sub-telomeric protein, SVSP family	-1.72	$8.30 \times 10^{-16}$	1.29	0.0172
<b>TA13965</b>	hypothetical protein	-1.55	$1.14 \times 10^{-15}$	1.46	0.0192
<b>TA09785</b>	Theileria-specific sub-telomeric protein, SVSP family	-1.70	$1.30 \times 10^{-15}$	1.54	0.0200
<b>TA17535</b>	Theileria-specific sub-telomeric protein, SVSP family	-1.64	$1.31 \times 10^{-15}$	1.55	0.0199
<b>TA16820</b>	hypothetical protein	-1.57	$1.54 \times 10^{-15}$	1.62	0.0205
<b>TA10865</b>	Tpr-related protein family member, putative	-1.55	$1.56 \times 10^{-15}$	1.64	0.0205
<b>TA03535</b>	hypothetical protein	-1.63	$1.61 \times 10^{-15}$	1.65	0.0204
<b>TA09865</b>	Theileria-specific sub-telomeric	-1.60	$2.04 \times 10^{-15}$	1.77	0.0216

protein, SVSP family

<b>TA12370</b>	hypothetical protein, conserved	-1.52	$2.49 \times 10^{-15}$	1.92	0.0231
<b>TA17346</b>	hypothetical protein	-1.48	$3.44 \times 10^{-15}$	2.12	0.0252
<b>TA04550</b>	hypothetical protein	-1.49	$3.81 \times 10^{-15}$	2.14	0.0252
<b>TA10735</b>	GATA-specific transcription factor, putative	-1.50	$4.85 \times 10^{-15}$	2.28	0.0265
<b>TA10755</b>	hypothetical protein, conserved	-1.47	$5.10 \times 10^{-15}$	2.32	0.0267
<b>TA09025</b>	hypothetical protein, conserved	-1.45	$5.73 \times 10^{-15}$	2.37	0.0269
<b>TA03145</b>	Tash1-like protein, putative	-1.53	$5.91 \times 10^{-15}$	2.39	0.0269
<b>TA08365</b>	hypothetical protein	-1.44	$7.29 \times 10^{-15}$	2.54	0.0282
<b>TA12635</b>	Theileria-specific hypothetical protein family member, putative	-1.43	$7.89 \times 10^{-15}$	2.61	0.0287
<b>TA09795</b>	Theileria-specific sub-telomeric protein, SVSP family	-1.56	$9.30 \times 10^{-15}$	2.72	0.0296
<b>TA11390</b>	Theileria-specific sub-telomeric protein, SVSP family, putative	-1.47	$1.43 \times 10^{-14}$	3.07	0.0330
<b>TA11960</b>	hypothetical P-,Q-rich family protein, putative	-1.41	$1.88 \times 10^{-14}$	3.34	0.0355
<b>TA10770</b>	hypothetical protein, conserved	-1.36	$2.18 \times 10^{-14}$	3.51	0.0369
<b>TA12945</b>	hypothetical protein, conserved	-1.39	$2.32 \times 10^{-14}$	3.54	0.0369
<b>TA12525</b>	Theileria-specific hypothetical protein family member, putative	-1.35	$2.87 \times 10^{-14}$	3.75	0.0387
<b>TA06330</b>	Tpr-related protein family member, putative	-1.35	$3.54 \times 10^{-14}$	4.08	0.0416
<b>TA06060</b>	hypothetical protein, conserved	-1.35	$3.79 \times 10^{-14}$	4.26	0.0430
<b>TA10800</b>	hypothetical protein, conserved	-1.35	$4.20 \times 10^{-14}$	4.39	0.0439

---