

Supplementary Table 9. Proteins with tandem repeats in *N. helminthoeca* ¹

Locus ID	Protein Name	Location of Repeats	Repeat Length	Number of Repeats
NHE_RS00170	conserved hypothetical protein Repeats: AGPRGEDARANVGDPNLPRSSSLPNPNVSHGQE	284 - 346	30	2
NHE_RS00220	hypothetical protein Repeats: TRSHGDLTEMRKALSREPS	449 - 788	20	17
NHE_RS00965	51 kDa antigen (P51) Repeats: CGCKKT	39 - 56	6	3
NHE_RS04180	conserved hypothetical protein Repeats: VEVQTDAPPEPERSTGAASTQTMSE	219 - 468	25	10
NHE_RS01860	conserved hypothetical protein Repeats 1: PIPSAEVAQQPAAEPVQQATE Repeats 2: VEQGSDDNTGADNIEEAIEPIPPAEVAQQPAAEPVQQATEPIPS	147 – 209	21	3
		18 – 107	46	2
NHE_RS02060	hexapeptide transferase family protein Repeats: GEISTGPEAITEATEVQDEVKLNPEVITEASGIVD	109 - 284	35	5
NHE_RS02225	inhibitor of apoptosis-promoting Bax1 family protein Repeats: DRVSDAMPGIQKGAKSTVWTADAAGRVGAVML	94 – 159	33	2
NHE_RS02305	RDD family protein Repeats: FPHKVFS	18 – 31	7	2
NHE_RS02365	hypothetical protein Repeats: EIMNTTNK	201 – 224	8	3
NHE_RS02540	conserved hypothetical protein Repeats: SSTGSCRPIAAPILNGASLHGYYTSLFEGNKDPGTV	346 - 526	36	5
NHE_RS02570	hypothetical protein Repeats: LRKVGIIKEKPF TGDDLIAELKARIEKRSEKNPGKPTVSDSRKRMVTSDAKDSKQRETQGEKSGN PRTITTETTLE	478 – 702	75	3
NHE_RS02695	conserved hypothetical protein Repeats: VPATSAVMKSIASSTGEGGEVGLSPTLTFLKEVGEV	329 – 402	37	2
NHE_RS03510	conserved hypothetical protein Repeats: AKYYSahrDEILQRRRESRARDPERFCEYG	123 – 272	30	5
NHE_RS03520	hypothetical protein Repeats 1: PEKFREYKAKHYSahrDEILQRRRESRARD Repeats 2: KYYSahrDEILQRRRESRARDPEKFRGYGA	52 – 175	30	4
		229 - 288	30	2

¹ Tandem repeats in protein were analyzed by T-REKS (<http://bioinfo.montp.cnrs.fr/?r=t-reks>) (Jorda and Kajava, 2009).

NHE_RS03525	hypothetical protein	15 – 231	74	3
Repeats 1:	KKKAEQPIQGTSSSSAPGPSTADLSTSSGSTTVLAPKRRKLTPEEKRENRISQAKYYSAHRDE IIQRQREQRA			
Repeats 2:	ERFREYKAKHYSahrdeILQRRRESRARDP	313 – 402	30	3
NHE_RS03670	type IV secretion system protein, VirB6-3	1007 - 1243	47	5
Repeats:	KPKTGEGMVENPIYESGDPVQGAESTENPYSRLRGAEGQEPIYATVD			
NHE_RS03855	Neorickettsia strain-specific surface antigen (SSA)	43 - 137	23	5
Repeats:	AAEVLKNTTAGDILKNST			
NHE_RS04070	hypothetical protein	130 – 353	56	4
Repeats:	NAPPESLQIELTLDQSEDSSEKQPITPPQQTEPVSLQHIEPTAPPEPHKTEPVIV			
