

mu loop

		GHHH	G		H	}		G		G	
Sarcoptes	MSSKPTLGYWDLRGLGQ	SIRILLTYAGVDFV	DKRYKI	GSAPDFD	RGEWLNDKF	--N	LGLD				58
Psoroptes	MDTKPVLGYWDARGLGQ	AIRLLLTADVDF	IDKRYKV	GPAPNYD	RSEWLNDKY	--N	LGLD				58
Boophilus	--MAPVLGYWDIRGLAQ	PIRLLLAHVDAK	VDDKRYTC	GPPPDFD	RSSWLNEKT	--K	LGLE				56
Rhipicephalus	--MAPILGYWNIIRGLA	QPFRLLLAHVDAK	VEEKQYSC	GPPPDFD	KSYWLSEKP	--K	LGLD				56
Varroa	-----	-----	FEERRYTT	LAASDFD	KSEWALEKANNK		LNLA				31
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		GGG		GG				GG		H
Sarcoptes	FPNLPY	YIEGDVKLTO	SI	IAILL	RYLGRKHKLDGQNE	QEWRRITLCEQQ	IMDLLMALARI	CY		118
Psoroptes	FPNCPY	YLDGNVRLTO	SI	IAILL	RYIARKYNLNGN	NEMEKIRISLAEQQ	IVDLNQALSRV	AY		118
Boophilus	FPNLPY	YIDGDVKLTO	SM	IAILL	RYLARKHGLEGK	TEAEKQRVDVSEQQ	FADFRMNWVRL	CY		116
Rhipicephalus	FPNLPY	YIDGDVKLTO	SM	IAILL	RYLARKYDLMGK	TEAEKQRVDVVEQQ	LADFRVNWGRL	CY		116
Varroa	FPNLPY	LVDGSVKLSQ	SH	AIM	RYLGRKFNLIGTTE	IELAHCELVEQQ	IADLRTAFMKL	CY		91
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Sarcoptes	DPNFEK	LKL	-----	DLVAKLPDDLKLF	SKFLGDHQFV	VAGTNISYIDFLVYE				164
Psoroptes	NPNCEK	LKP	-----	EYLEKLPEQLELLS	KFLNNQPFISG	TNISYADFLLYE				164
Boophilus	NPDFEK	LKG	-----	DYLKNLPASLKAF	SDYLGTHKFF	FAGDNLTYVDFIAYE				162
Rhipicephalus	SPDFEK	LKG	-----	DYLKDLPASLKAF	SDYLGNRKFF	FAGDNLTYVDFIAYE				162
Varroa	SPSFER	LQEGTCSKADCL	GLVNLGGF	IDRF	AHMLQEISAFL	GERKWF	LNEKLT	TYVDF	LAYE	151
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Sarcoptes	YLIRVKIFAPEIF	TKFPNLSY	ITRIESMPKISAYIK	QQ--EPQLFNGPMAK	WNTK-----					218
Psoroptes	YLTIKIKVLMPEL	VKNDNLKKF	FHERIEALPRINEYIK	QQ--QPKSFHGPTAL	WNGQYA----					220
Boophilus	MLAQHLIFAPDCL	KDFANL	KAFVDR	IEALPHVAA	YLKSDKCIKWPL	NGDMASFGSRLQK	KP--			223
Rhipicephalus	MLDQHLLFAPDCL	KDFANL	KAFVDR	VAAALPRVAA	YLKSDKCIKWPL	NGDMASFGSRLQK	KP--			223
Varroa	LLFQMYVWNSSV	FKNVTNLT	DFITRFEALPQ	ISAYMK	TDSYIKWPF	NNIMASYGSRNQ	VCPF			213
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