

A)

	10	20	30	40	50	60	70	80	90	100
EHE12	MD----QRLISTILALLLSLSLAHHVEDLESEDANEIEDPDDLITTRIMQSNNGSIEMLMEGDLLVSNTRNAMKCRNN--RCLWKKSSNGLVEVPYTVS									
SseHCEa	.T----PT-V.LL.L...G..R..PLH.-----EGN..E..V.....LT...ATD.I.L....APK.....WYQ--S.Q...GY...TI.F...									
SseHCEb	.T----PT-V.LL.L...G..R..PLH.-----E.N..E..V.....LT...ATD.I.L....APK.....WYQ--S.Q...GN...TI.F...									
SseLCE	..FNTSTSVPLLL.L...GF.K..DDN.QGAVHDLSDMSQSAKE.F.AT.LRM...SDF.L...VMIP.....I.EPYS...P..A..Y..I.FIL.									
SseHE	..----LT.L.AVFTV..GF.AQS.SLVRSHDEGVDPDPSQR...S..LGA.RRVSQI.V...VAI.K.....WGG--Y..T....Y.....I.									

	110	120	130	140	150	160	170	180	190	200
EHE12	RQFSYYQGRRIVKAMKTFNTQTCTIRFVPRSRQRDYISIKSRGGCYSLGRTGGKQVVS LAKYGCVYHGIIQHESHALGFYHEHTRSDRNKYVKINWENV									
SseHCEa	S..TSWEKQK.DS...VYHSS.....QNEY.....EN.A..F.A..V..R..L..NRQ...L...VVL...IN.....Q..Q...DN.....YI									
SseHCEb	S..TSWEKQK.DS...VYHSS.....QNEY.....EN.A..F.A..V..R..L..NRQ...L...VVL...IN.....Q..Q...DN.....YI									
SseLCE	EKYD.SEKTL.LA..RG.QSK..V..I..AT..A.L..EP.Y..S.L..Y..D..L..QR...INN.....ML.....DQ.IR.....I									
SseHE	DYYYDSEKAS.L...E..HQK..V...HRG.T..L..E.EL..W.SV..D..H....SV...LE..T...L...H.....DR..R...G..									

	210	220	230	240	250	260	270
EHE12	APRSIYNFQKQNTNNLNTPYDYTSIMHYGKTAFTSN-GKDTITPIP NPKQSIGQRRSMSGDILRIKKLYNCCKKRNI.						
SseHCEa	N.QNA...Y.....V...R...TVQY.R.....NVQ....PG..RW..I..NA..G..						
SseHCEb	N.QNA...Y.....S.V...R...TVQY.R.....NVQ....G..RW..I..NA..G..						
SseLCE	NKYFV...R.MD.D.....S.V...R...G.Q-RQE...TYD.SAT...EGL.NI..F..N...R..WGFSG.						
SseHE	QAMNK.D.H.KD.....V...R.V..SGF.-.....DSSVAV..SKE..DI.....NR..R..----						

B)

