

	1	10	20	
SiH2A.1	MAGK	GGKG	LLAAKTTAAK.S	TDK.D
SiH2A.10	MGGK	GGKG	LLAAKTVAG	M.D
SbH2A.14	MAGK	GGKG	LLAAKIAAG	M.D
SiH2A.11	MAGK	GGKG	LLAAKTTAAK.S	AEK.D
OsH2A.5	MAGK	GGKG	LLAAKTTAAK.S	AEK.D
SbH2A.2	MAGK	GGKG	LLAAKTTAAK.S	AEK.D
ZmH2A.8	MAGK	GGKG	LLAAKTTAAK.S	AEK.D
ZmH2A.21	MAGK	GGKG	LLAAKTTAAK.S	AEK.D
SiH2A.14	MAGK	GGKG	LLAAKTTAAK.S	TDK.D
SbH2A.12	MAGK	GGKG	LLAAKTTAAK.S	TDK.D
ZmH2A.17	MAGK	GGKG	LLAAKTTAAK.S	TDK.D
OsH2A.2	MAGK	GGKG	LLAAKTTAAK.S	ADK.D
OsH2A.12	MAGK	GGKG	LLAAKTTAAKAA	ADK.D
AtH2A.5	MAGK	GGKG	LLAAKTTAA.A	ANK.D
AtH2A.7	MAGK	GGKG	LVAAKTMAA.N	KDK.D
AtH2A.3	MSGK	GAKG	LTMGKPS.G	SDK.D
SbH2A.7	MAGK	GGMG	LPAAK.S	TDK.D
BbH2A.7	MSGK	GAKG	LSSGKGAKGT.L	TGK.T
ZmH2A.4	MAGKG	GKKS	LVAAKIAAG	M.D
ZmH2A.5	MLES			
ZmH2A.19	MLES			
ZmH2A.18	MLES			
ZmH2A.6	MLES			
BbH2A.8	MSGK	GKG	KQGLKGSLR	G.T
SbH2A.13				
AtH2A.8	MVCN		TNILK	D
ZmH2A.15	MAKKGQYVKSQGLVDMNKPP	EMISGN.MKVGS	A	N
SiH2A.2	MDA	SGAT	GKVKKGAAGR.K	A.G
SiH2A.8	MDA	SGAT	GKVKKGAAGR.K	A.G
SbH2A.9	MDA	SGAG	GKAKKGAAGR.K	A.G
ZmH2A.11	MDA	SGAG	SKAKKGAAGR.K	A.G
SiH2A.9	MDVS	GAGAT	GKVKKGAAGR.K	A.G
SiH2A.13	MDAT	GTGAG	GKVKKGAAGR.K	A.G
ZmH2A.24	MDAT	GTGAG	GKAKKGAAGR.K	A.G
SbH2A.5	MDST	AAGAG	GKAKKGAAGR.K	A.G
ZmH2A.26	MDST	GTGAG	GKGGKGAAGR.K	V.G
ZmH2A.10	MDAS	AAGAG	GKAKKGAAGR.K	A.G
SbH2A.6	MDST	GAGAG	GKVKKGAGGR.K	AGG
ZmH2A.1	MDA	SGAG	SKGKKGAAGR.K	A.G
SbH2A.1	MDVS	GAGAG	GKAKKGAAGR.K	A.G
SbH2A.8	MDVS	GAGSG	GKAKKGAGGR.K	TG.G
ZmH2A.7	MDV	SGAG	GKAKKGAAGR.K	A.G
OsH2A.1	MDAA	GAGAG	GKLKKGAAGR.K	A.G
OsH2A.3	MDAA	GAGAG	GKLKKGAAGR.K	A.G
SiH2A.5	MD	GGA	AKVKKAAVGR.K	L.G
SbH2A.17	MD	GGG	AKAKKAAAGR.K	LGG.G
ZmH2A.22	MD	GGG	AKAKKAAAGR.K	LGG.G
SiH2A.6	MD	VGA	KVPKKGAAGR.R	GG.G
SbH2A.18	MD	AGA	KVPKKAAAGR.R	GG.G
OsH2A.8	ME	VGA	KVPKKAGAGGR.R	GG.G
ZmH2A.23	MD	AGA	KVVKKAAAGR.R	GG.G
OsH2A.7	MD	VGVG	GKAAKKAAGR.K	L.G
AtH2A.10	MD	SG	TKVKKGAAGR.R	SG.G
SiH2A.3	MA	SG	GRGKA	IG.A
OsH2A.9	MA		GRGKA	IG.A
ZmH2A.2	MA		GRGKA	IG.A
OsH2A.13	MA		GRGKA	IG.A
SbH2A.10	MA		GRGKA	IG.A
ZmH2A.12	MA		GRGKA	IG.A
SiH2A.4	MA		GRGKA	IG.S
SbH2A.11	MA		GRGKA	IG.S
ZmH2A.13	MA		GRGKA	IG.S
ZmH2A.3	MA		GRGKA	IG.S
OsH2A.10	MA		GRGKA	IG.S
OsH2A.11	MA		GRGKA	IG.S
AtH2A.2	MA		GRGKT	IG.S
AtH2A.9	MA		GRGKQ	IG.S
AtH2A.12	MA		GRGKT	IG.S
AtH2A.6	MA		GRGKT	IG.S
SiH2A.7	MSS		SGGR	G.K
SbH2A.15	MSS		VGGR	G.K
ZmH2A.14	MSS		GGGR	G.K
SbH2A.4	MSS		GSGR	G.K
OsH2A.4	MSSS	QG	GGGR	G.K
OsH2A.14	MSSA	GG	GGGR	G.K
SiH2A.12	MSS		SGGR	G.K
SbH2A.3	MSS	TG	GGGR	G.K
ZmH2A.9	MSS	TG	GGGR	G.K
ZmH2A.20	MSS	TG	GSGR	G.K
AtH2A.1	MSTG	AGSGT	TKGGR	G.K
AtH2A.4	MSSG	AGSGT	TKGGR	G.K
BbH2A.1	MA		GRGK	G.K
BbH2A.2	MT		GRGK	G.K
BbH2A.3	MT		GRGK	G.K
BbH2A.5	MT		GRGK	G.K
BbH2A.6	MT		GRGK	G.K
BbH2A.4	MLCLYLLPRSLTA		YGR	E.K
AtH2A.13	ME	ST	GKVKKAFGGR.K	PP.G
AtH2A.11	MES	SQAT	TKPTRGAGGR.K	G
ZmH2A.25	MSST		GGGR	
SbH2A.16	MEDG	S	AVVEKFAFGR.K	LG.G
SbH2A.16	MPSL		AATGS	A
OsH2A.6	MEAKDK.SSGAARA	LELTDRSGNGS	STDELPGWVFVHCGLDSIEKDKMTLGNRRHRDQGGSDIGLCGALTDSDGTTT.R	

	30	40	50	60	70	80	90
SiH2A.1	KDKKKAP	VSRSSR	AGLOFPVCGRI	HRQ	LKSRASAHG	RVGATAAVYSAA	ILEYLTAEVIELLAGNAIKDLVKRITPA
SiH2A.10	KE.KKKQ	VTRSSR	AGLOFPVCGRI	HRQ	LKERSQASG	RVGATAAVYSAA	ILEYLTAEVIELLAGNAIKDLVKRITPR
SbH2A.11	KG.KKKP	VTRSSR	AGLOFPVCGRI	HRQ	LKERSQASG	RVGATAAVYAAA	ILEYLTAEVIELLAGNASKDLKMKRISPR
SiH2A.14	KG.KKKP	VSRSSR	AGLOFPVCGRI	HRQ	LKORTQANG	RVGATAAVYSAA	ILEYLTAEVIELLAGNASKDLVKRITPR
OsH2A.5	KG.KKAP	VSRSSR	AGLOFPVCGRI	HRQ	LKORTQANG	RVGATAAVYSAA	ILEYLTAEVIELLAGNASKDLVKRITPR
SbH2A.2	KG.KKAP	VSRSSR	AGLOFPVCGRI	HRQ	LKORTQANG	RVGATAAVYSAA	ILEYLTAEVIELLAGNASKDLVKRITPR
ZmH2A.8	KG.KKAP	ISRSSR	AGLOFPVCGRI	HRQ	LKORTQANG	RVGATAAVYSAA	ILEYLTAEVIELLAGNASKDLVKRITPR
ZmH2A.21	KG.KKAP	ISRSSR	AGLOFPVCGRI	HRQ	LKORTQANG	RVGATAAVYSAA	ILEYLTAEVIELLAGNASKDLVKRITPR
SiH2A.14	KDKKKAP	VSRSSR	AGLOFPVCGRI	HRQ	LKSRASAHG	RVGATAAVYSAA	ILEYLTAEVIELLAGNASKDLVKRITPR
SbH2A.12	KDKKKAP	VSRSSR	AGLOFPVCGRI	HRQ	LKSRASAHG	RVGATAAVYSAA	ILEYLTAEVIELLAGNASKDLVKRITPR
ZmH2A.17	KDKKKAP	VSRSSR	AGLOFPVCGRI	HRQ	LKSRASAHG	RVGATAAVYSAA	ILEYLTAEVIELLAGNASKDLVKRITPR
OsH2A.2	KDKKKAP	VSRSSR	AGLOFPVCGRI	HRQ	LKSRASAHG	RVGATAAVYSAA	ILEYLTAEVIELLAGNASKDLVKRITPR
OsH2A.12	KDKKKAP	VSRSSR	AGLOFPVCGRI	HRQ	LKGRVSAHG	RVGATAAVYTAS	ILEYLTAEVIELLAGNASKDLVKRITPR
AtH2A.5	SV.KKKS	ISRSSR	AGLOFPVCGRI	HRQ	LKORVSAHG	RVGATAAVYTAS	ILEYLTAEVIELLAGNASKDLVKRITPR
AtH2A.7	KD.KKKP	ISRSSR	AGLOFPVCGRI	HRQ	LKTRVSAHG	RVGATAAVYTAS	ILEYLTAEVIELLAGNASKDLVKRITPR
AtH2A.3	KD.KKKP	VTRSSR	AGLOFPVCGRI	HRQ	LKTRSTAHG	RVGATAAVYTAS	ILEYLTAEVIELLAGNASKDLVKRITPR
SbH2A.7	KDKKKAP	MSRSSR	AGLOFPVCGRI	HRQ	LKSHAFVANG	RVGATAAVYSAA	ILEYLTAEVIELLAGNATKDLNLKRITPR
BbH2A.7	GD.KKKP	VSRSSR	AGLOFPVCGRI	HRQ	LKGRVTANG	RVGATAAVYTAA	ILEYLTAEVIELLAGNASKDLVKRITPR
ZmH2A.4	KD.KKSP	VNRSR	AGLHFPVCGRI	HRH	LKDSAQAGER	RVGATAAVYAAA	ILEYLTAEVIELLAGNACRDLVKRITPR
ZmH2A.5	...IKVERAKYS	SL	MCFOFPVCGRI	HRQ	LKORTQANG	RVGATAAVYSAA	ILEYLTAEVIELLAGNASKDLVKRITPR
ZmH2A.19	...IKVERAKYS	SL	MCFOFPVCGRI	HRQ	LKORTQANG	RVGATTIVYSAA	ILEYLTAEVIELLAGNASKDLVKRITPR
ZmH2A.18	...IKVERAKYS	SL	MCFOFPVCGRI	HRQ	LKORTQANG	RVGATTIVYSAA	ILEYLTAEVIELLAGNASKDLVKRITPR
ZmH2A.6	...IKVERAKYS	SL	MCFOFPVCGRI	HSQ	LKORTQANG	HVGATAIVYSAA	ILLYLTAKVIELLAGNASKDLVKRITPR
BbH2A.8	PV.QKKP	ISRSSR	AGLOFPVCGRI	HRQ	LKRSRTTSHG	RVSAATAAVYTAA	ILEYLTAEVIELLAGNASKDLVKRIAPR
SbH2A.13	...MEPCW		ADVPFSMGRH	HRQ	LKSRSSMAHS	YVSASATITYTA	ILEYLTAKVIELLAGNARKDLKAKSFTPW
AtH2A.8	VS.TKISAFENVR	IMV	GVGEPMFQVARI	HKQ	LKNRVSMAHS	SVGADVVYMTA	ILEYLTETEVQLAEMNTSKDLVKRITPR
ZmH2A.15	SF.ERKDL	LSRELL	AKLLVLYLCTA	QEH	LSQRQLLGG	YAG...YSAA	ILEYLTAEVIELLAGNAGKDLVKRITPR
SiH2A.2	GP.RKKKS	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
SiH2A.8	GP.RKKKS	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
SbH2A.9	GP.RKKKS	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
ZmH2A.11	GP.RKKKS	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
SiH2A.9	GP.RKKKS	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
SiH2A.13	GP.RKKKS	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
ZmH2A.24	GP.RKKKS	VTRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGSGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
SbH2A.5	GP.RKKKS	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
ZmH2A.26	GP.RKKKS	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
ZmH2A.10	GP.RKKKS	VTRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
SbH2A.6	GP.RKKKS	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
ZmH2A.1	GP.RKKKS	VTRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
SbH2A.1	GP.RKKKS	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
SbH2A.8	GP.RKKKS	VTRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
ZmH2A.7	GP.TKKS	VSRSSR	AGLOFPVSRVGRY	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
OsH2A.1	GP.RKKAS	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RIGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
OsH2A.3	GP.RKKAS	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RIGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
SiH2A.5	GP.KKKKP	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGSGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
SbH2A.17	GP.KKKKP	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
ZmH2A.22	GP.KKKKP	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
SiH2A.6	GP.KKKKP	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RIGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
SbH2A.18	GP.KKKKP	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RIGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
OsH2A.8	GP.KKKKP	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RIGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
ZmH2A.23	GP.KKKKP	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
OsH2A.7	GP.KKKKP	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
AtH2A.10	GP.KKKKP	VSRSSR	AGLOFPVCGRI	GRY	LKKGRIYAO	RVGTGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
SiH2A.3	GA.AKKAT	TSRSSK	AGLOFPVCGRI	ARE	LKAGKYAE	RVGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
OsH2A.9	GA.AKKAT	TSRSSK	AGLOFPVCGRI	ARE	LKAGKYAE	RVGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
ZmH2A.2	GA.AKKAT	TSRSSK	AGLOFPVCGRI	ARE	LKAGKYAE	RVGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
OsH2A.13	GA.AKKAT	TSRSSK	AGLOFPVCGRI	ARE	LKAGKYAE	RVGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
SbH2A.10	GA.AKKAT	TSRSSK	AGLOFPVCGRI	ARE	LKAGKYAE	RVGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
ZmH2A.12	GA.AKKAT	TSRSSK	AGLOFPVCGRI	ARE	LKAGKYAE	RVGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
SiH2A.4	GA.AKKAS	MSRSSK	AGLOFPVCGRI	ARE	LKAGKYAE	RVGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
SbH2A.11	GA.AKKAS	MSRSSK	AGLOFPVCGRI	ARE	LKAGKYAE	RVGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
ZmH2A.13	GA.AKKAS	MSRSSK	AGLOFPVCGRI	ARE	LKAGKYAE	RVGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
ZmH2A.3	GA.AKKAT	TSRSSK	AGLOFPVCGRI	ARE	LKAGKYAE	RVGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
OsH2A.10	GA.AKKAS	MSRSSK	AGLOFPVCGRI	ARE	LKAGKYAE	RVGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
OsH2A.11	SA.AKKAT	TSRSSK	AGLOFPVCGRI	ARE	LKAGKYAE	RVGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
AtH2A.2	GS.AKKAT	TSRSSK	AGLOFPVCGRI	ARE	LKAGKYAE	RVGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
AtH2A.9	GA.AKKAS	TSRSSK	AGLOFPVCGRI	ARE	LKAGKYAE	RVGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
AtH2A.12	GS.AKKAT	TSRSSK	AGLOFPVCGRI	ARE	LKAGKYAE	RVGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
AtH2A.6	GV.AKKAS	TSRSSK	AGLOFPVCGRI	ARE	LKNGKYAT	RVGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
SiH2A.7	PK.GTKAVSRSSK		AGLOFPVGRVARY		LKTGKYAE	RVGGGAPVYLSA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
SbH2A.15	PK.GTKSVTRSSAK		AGLOFPVGRVARY		LKTGKYAE	RVGGGAPVYLSA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
ZmH2A.14	PK.GSKALSRSTK		AGLOFPVGRVARY		LKTGKYAE	RVGGGAPVYLSA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
SbH2A.4	PK.GTKAVSRSSK		AGLOFPVGRVARY		LKTGKYTE	RVGGGAPVYLSA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
OsH2A.4	AK.TTKAVSRSSK		AGLOFPVGRVARY		LKTGKYAE	RVGAGAPVYLSA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
OsH2A.14	SK.GSKSVSRSSK		AGLOFPVGRVARY		LKTGKYAE	RVGAGAPVYLSA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
SiH2A.12	AKPATIKSVSRSSK		AGLOFPVGRVARY		LKTGKYAE	RVGAGAPVYLSA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
SbH2A.3	AKPATIKSVSRSSK		AGLOFPVGRVARY		LKTGKYAE	RVGAGAPVYLSA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
ZmH2A.9	AKPATIKSVSRSSK		AGLOFPVGRVARY		LKTGKYAE	RVGAGAPVYLSA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
ZmH2A.20	AKPATIKSVSRSSK		AGLOFPVGRVARY		LKTGKYAE	RVGAGAPVYLSA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
AtH2A.1	PK.ATIKSVSRSSK		AGLOFPVGRVARY		LKTGKYAE	RVGAGAPVYLSA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
AtH2A.4	PK.ATIKSVSRSSK		AGLOFPVGRVARY		LKTGKYAE	RVGAGAPVYLSA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
BbH2A.1	TA.GKKSVSKSAS		AGLOFPVGRVARY		LKTGKYAS	RIGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
BbH2A.2	TA.GKKSVSKSAS		AGLOFPVGRVARY		LKTGKYAS	RIGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
BbH2A.3	TA.GKKSVSKSAS		AGLOFPVGRVARY		LKTGKYAS	RIGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
BbH2A.5	TA.GKKSVSKSAS		AGLOFPVGRVARY		LKTGKYAS	RIGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
BbH2A.6	TA.GKKSVSKSAS		AGLOFPVGRVARY		LKTGKYAS	RIGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
BbH2A.4	TA.GKKSVSKSAS		AGLOFPVGRVARY		LKTGKYAS	RIGAGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
AtH2A.13	AP.KTKSVSKSMK		AGLOFPVGRITRF		LKTGKYAL	RIGGGAPVYMAA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
AtH2A.11	GD.RKKSVSKSVK		AGLOFPVGRVARY		LKTGKYAL	RVGSGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
ZmH2A.25	...VSR		...RSHRA		NAPDSQRTCR	ARRRRAPVYLLST	VLEYLAAEVIELLAGNAARDNKKNNRIIPR
ZmH2A.16	SPSRRRQGAEHARP	PGGGV	GVGEHEPILAAAW		SSSPSTLAA	GISVGAPVYLLA	VLEYLAAEVIELLAGNAARDNKKTRIIPR
OsH2A.6	SG.PKKP	VSRSSG	...ARLFFPVG	RY	LKKGRIYAO	RVGTGAPVYLLA	EASPIVYLFYQSFQPSV

	100	110	120	130
SiH2A.1	TSSSPSAGTR..	..RW.TIAG	GGVIPHIHKS	LINKTAK.E
SiH2A.10	HLQLAIRGDEELD	TLLIKG.TIAG	GGVIPHIHKS	LINKTVK.E
SbH2A.14	HLQLAIRGDEELD	TLLIKG.TIAG	GGVIPHIHKS	LINKGVK.E
SiH2A.11	HLQLAIRGDEELD	TLLIKG.TIAG	GGVIPHIHKS	LINKSSK.E
OsH2A.5	HLQLAIRGDEELD	TLLIKG.TIAG	GGVIPHIHKS	LINKSSK.E
SbH2A.2	HLQLAIRGDEELD	TLLIKG.TIAG	GGVIPHIHKS	LINKSSK.E
ZmH2A.8	HLQLAIRGDEELD	TLLIKG.TIAG	GGVIPHIHKS	LINKSSK.E
ZmH2A.21	HLQLAIRGDEELD	TLLIKG.TIAG	GGVIPHIHKS	LINKSSK.E
SiH2A.14	HLQLAIRGDEELD	TLLIKG.TIAG	GGVIPHIHKS	LINKTAK.E
SbH2A.12	HLQLAIRGDEELD	TLLIKG.TIAG	GGVIPHIHKS	LINKTAK.E
ZmH2A.17	HLQLAIRGDEELD	TLLIKG.TIAG	GGVIPHIHKS	LINKTAK.E
OsH2A.2	HLQLAIRGDEELD	TLLIKG.TIAG	GGVIPHIHKS	LINKTAK.E
OsH2A.12	HLQLAIRGDEELD	TLLIKG.TIAG	GGVIPHIHKS	LINKTAK.E
AtH2A.5	HLQLAIRGDEELD	TLLIKG.TIAG	GGVIPHIHKS	LVNKVTK.D
AtH2A.7	HLQLAIRGDEELD	TLLIKG.TIAG	GGVIPHIHKS	LINKTTK.E
AtH2A.3	HLQLAIRGDEELD	TLLIKG.TIAG	GGVIPHIHKS	LINKSAK.E
SbH2A.7	HLQLAIRGDEELD	TLLIKA.TIAG	GGVIPYIHQS	LINKTAK.E
BbH2A.7	HLQLAIRGDEELD	TLLIKA.TIAG	GGVIPHIHKS	LINKSTK.KE
ZmH2A.4	HLQLAVRGDEELD	TLLIKA.TIAG	GGVIPHIHRELID	KAA...
ZmH2A.5	HLQLAIHGD..ELD	TLLIKG.TIAG	GGVIPHIHKS	PINKSSK.E
ZmH2A.19	HLQLAIHGDDEELD	TLLIKS.TIAG	GGVILHIQSLTN	KSSK.E
ZmH2A.18	HLQLAICGDEELD	TLLIKG.TIAG	GGVIPHIHKS	LINKSSK.E
ZmH2A.6	HLQLAIRGDKELD	TLMKG.TIAG	GGVIPHIHKS	LINKSSK.E
BbH2A.8	HLQLAIRGDEELD	TLLIKA.TIAG	GGVIPHIHKS	LMNKPTIT.KN
SbH2A.13	HLHLANRKNDEED	TLLIKG.TIAG	GVIPHIHKA	SNKTAK.E
AtH2A.8	HLQLAIRGDEELD	TLLIKG.TIAG	GGVIPHIHKS	LINKSSK.E
ZmH2A.15	HLQLAIHGDDEELD	THIKG.TIVG	GGVRPHIHKS	LINKSSK.E
SiH2A.2	HVLLAIRNDEED	GKLLIAGVTIAH	GGVLPNIN	PVLLPKKAA.EKAA..SGG.AKEAKSPKK
SiH2A.8	HVLLAIRNDEED	GKLLIAGVTIAH	GGVLPNIN	PVLLPKKAA.EKAA..SGG.AKEAKSPKK
SbH2A.9	HVLLAIRNDEED	GKLLIAGVTIAH	GGVLPNIN	PVLLPKKVA.EKAA..SGG.SKEAKSPKK
ZmH2A.11	HVLLAIRNDVED	GKLLIAGVTIAH	GGVLPNIN	PVLLPKKVA.EKAS..SGG.SKESKSPKK
SiH2A.9	HVLLAIRNDEED	GKLLIAGVTIAH	GGVLPNIN	PVLLPKKVA.EKAA..SGG.AKEAKSPKK
SiH2A.13	HVLLAIRNDEED	GRLLIAGVTIAH	GGVLPNIN	PVLLPKRTA.EKAS..SGG.SKEAKSPKK
ZmH2A.24	HVLLAIRNDEED	GKLLITGVVTIAH	GGVLPNIN	PVLLPKRTA.EKAS..SGG.SKEAKSPKK
SbH2A.5	HVLLAIRNDEED	GKLLISGVVTIAH	GGVLPNIN	PVLLPKRTA.EKAS..TGG.SKEAKSPKK
ZmH2A.26	HVLLAIRNDEED	GKLLISGVVTIAH	GGVLPNIN	PVLLPKRTA.EKAS..SVG.SKEAKSPKK
ZmH2A.10	HVLLAIRNDEED	GKLLISGVVTIAH	GGVLPNIN	PVLLPKRTA.EKAA..AKA.SKEAKSPKK
SbH2A.6	HVLLAIRNDEED	GKLLISGVVTIAH	GGVLPNIN	PVLLPKRTA.EKAS..SGG.SKEPKSPKK
ZmH2A.1	HVLLAIRNDEED	GKLLIAGVTIAH	GGVLPNIH	SVLLPKKAA.EKAA..SGG.SKEPKSPKK
SbH2A.1	HVLLAIRNDEED	GKLLIAGVTIAH	GGVLPNIH	SVLLPKKVA.EKAA..KEPKSPKK
SbH2A.8	HVLLAIRNDEED	GKLLIAGVTIAH	GGVLPNIH	SVLLPKKVA.EKAA..AAA..KEPKSPKK
ZmH2A.7	HVLLAIRNDEED	GKLLIAGVTIAH	GGVLPNIHT	VLLPKKVA.EKAA..KEPKK
OsH2A.1	HVLLAIRNDEED	GKLLIAGVTIAH	GGVLPNIN	PVLLPKRTA.EKAA..AAG..KEAKSPKK
OsH2A.3	HVLLAIRNDEED	GKLLIAGVTIAH	GGVLPNIN	PVLLPKRTA.EKAA..AAG..KEAKSPKK
SiH2A.5	HVLLAIRNDEED	GRLLIAGVTIAH	GGVLPNIN	PVLLPKKAA.ERAE..KAE..KAAKSPKK
SbH2A.17	HVLLAIRNDEED	GKLLIAGVTIAH	GGVLPNIN	SVLLPKKAA.EKAE..KAA..SATKSPKKA
ZmH2A.22	HLLLAIRNDEED	GKLLIGGVVTIAH	GGVLPNIN	PVLLPKKAA.ERAE..KAA..AAGPKSPKK
SiH2A.6	HVLLAIRNDEED	GKLLIAGVTIAH	GGVLPNIN	PVLLPKRTA.SAAAKEGKEG..KEKKSPKK
SbH2A.18	HVLLAIRNDEED	GKLLIAGVTIAH	GGVLPNIN	PVLLPKRTA.AAAA..KEG..KEKKSPKK
OsH2A.8	HVLLAIRNDEED	GKLLIAGVTIAH	GGVLPNIN	PVLLPKRTG.SAAAKEAKEG..KTPKSPKK
ZmH2A.23	HVLLAIRNDEED	GKLLIAGVTIAH	GGVLPNIN	PVLLPKRTA.VAAA..KEG..KEKKSPKKA
OsH2A.7	HVLLAIRNDEED	GKLLIAGVTIAH	GGVLPNIN	PVLLPKRTA.EKAD..KPA..KASKD
AtH2A.10	HVLLAVRNDEED	GTLIKGVVTIAH	GGVLPNIN	PILLPKRSE.KAAS..TT..KTPKSPSK
SiH2A.3	HIQLAVRNDEED	TLLIKGGATIAS	GGVMPNIHQHLLPKR	AG.SSKA..SSH..DDDDN
OsH2A.9	HIQLAVRNDEED	TLLIKGGATIAS	GGVMPNIHQHLLPKR	AG.SSKA..STV..DDDDN
ZmH2A.2	HIQLAVRNDEED	TLLIKGGATIAS	GGVMPNIHQHLLPKR	AG.SSKA..STV..DDDDN
OsH2A.13	HIQLAVRNDEED	TLLIKGGATIAS	GGVMPNIHQHLLPKR	AG.SSKA..SHA..DDDDN
SbH2A.10	HIQLAVRNDEED	TLLIKGGATIAS	GGVMPNIHQHLLPKR	AA.SSKA..SVD..DDDN
ZmH2A.12	HIQLAVRNDEED	TLLIKGGATIAS	GGVMPNIHQHLLPKR	AA.SSKA..SVD..DDDN
SiH2A.4	HIQLAVRNDEED	RLLIGTVTIAA	GGVMPNIHNLLPKR	AG.GGSA..KAA..AGDED
SbH2A.11	HIQLAVRNDEED	RLLIGTVTIAA	GGVMPNIHNLLPKR	SG.GGSA..KAA..AGDED
ZmH2A.13	HIQLAVRNDEED	RLLIGTVTIAA	GGVMPNIHNLLPKR	SG.GGSA..KAA..AGDED
ZmH2A.3	HIQLAVRNDEED	RLLIGTVTIAA	GGVMPNIHNLLPKR	AG.GGSA..KAA..AGDED
OsH2A.10	HIQLAVRNDEED	RLLIGTVTIAA	GGVMPNIHNLLPKR	AG.GSAK..AAA..GDDDN
OsH2A.11	HIQLAVRNDEED	RLLIGTVTIAN	GGVMPNIHNLLPKR	AG.SSAK..AAA..ADDE
AtH2A.2	HIQLAVRNDEED	KLLIGDVTIAN	GGVMPNIHNLLPKR	TG.ASKP..SAE..DD
AtH2A.9	HIQLAVRNDEED	KLLIGDVTIAN	GGVMPNIHNLLPKR	AG.SSKP..TEE..D
AtH2A.12	HIQLAVRNDEED	KLLIGDVTIAN	GGVMPNIHNLLPKR	AG.ASKP..QED
AtH2A.6	HIQLAVRNDEED	KLLIGDVTIAN	GGVMPNIHSLLPKR	AG.ASKP..SAD..ED
SiH2A.7	HIQLAVRNDEED	KLLIGAVTIAA	GGVLPNIHQTLPLKRA	GGKGKA..DIG..SASQEF
SbH2A.15	HIQLAVRNDEED	KLLIGAVTIAA	GGVLPNIHQTLPLKRA	GGKGKA..DIG..SASQEF
ZmH2A.14	HIQLAVRNDEED	KLLIGAVTIAA	GGVLPNIHQTLPLKRA	GGKGKA..DIG..SASQEF
SbH2A.4	HIQLAVRNDEED	KLLIGAVTIAA	GGVLPNIHQTLPLKRA	GGKGKA..EIG..SASQEF
OsH2A.4	HIQLAVRNDEED	RLLIGTVTIAA	GGVLPNIHQVLLPKR	GGG..GKG..DIG..SASQEF
OsH2A.14	HIQLAVRNDEED	RLLIGAVTIAA	GGVLPNIHQTLPLKRA	GGG..KDKA..DIG..SASQEF
SiH2A.12	HIQLAVRNDEED	KLLIGTVTIAA	GGVMPNIHQTLPLKRA	AG.GHKG..DIG..SASQEF
SbH2A.3	HIQLAVRNDEED	KLLIGTVTIAA	GGVMPNIHSLLPKR	AG..QKG..DIG..SASQEF
ZmH2A.9	HIQLAVRNDEED	KLLIGTVTIAA	GGVMPNIHQTLPLKRA	AG..QKG..DIG..SASQEF
ZmH2A.20	HIQLAVRNDEED	KLLIGTVTIAA	GGVMPNIHQTLPLKRA	AG..HKG..DIG..SASQEF
AtH2A.1	HIQLAVRNDEED	KLLIGSVTIAN	GGVLPNIHQTLPLSK	VG.KNKG..DIG..SASQEF
AtH2A.4	HIQLAVRNDEED	KLLIGSVTIAN	GGVLPNIHQTLPLSK	VG.KNKG..DIG..SASQEF
BbH2A.1	HIQLAVRNDEED	KLLISGVTIAA	GGVLPNIHSVLLPKR	KSS.KDEA
BbH2A.2	HIQLAVRNDEED	KLLISGVTIAA	GGVLPNIHSVLLPKR	SG.KKEE..A
BbH2A.3	HIQLAVRNDEED	KLLISGVTIAA	GGVLPNIHSVLLPKR	SG.KKEE..A
BbH2A.5	HIQLAVRNDEED	KLLISGVTIAA	GGVLPNIHSVLLPKR	TG.KKEA..E
BbH2A.6	HIQLAVRNDEED	KLLISGVTIAA	GGVLPNIHSVLLPKR	TG.KKEA..E
BbH2A.4	HIQLAVRNDEED	KLLISGVTIAA	GGVLPNIHSVLLPKT	SK.KGKD..ASG..SVSQEF
AtH2A.13	HLLLAIRNDEED	GKLLISGVTIAN	GGVLPNIN	SVLLPKRSA.TKPA..EE..KATKSP
AtH2A.11	HLCLAIRNDEED	GRLLIHGVVTIAA	GGVLPNIN	PVLLPKRST.ASSS..QAE..KAS
ZmH2A.25	QIQLAVRNDEED	KLMGTVTIAA	SGVMPDIHQTLPLKRA	AG.QKGDIG..SASQEF
SbH2A.16	YLLLAIRKDEED	GNLLIEVTITH	DGVLSNIN	PALLPNKVV.AAAG..SSK..SPTKAAAK
SbH2A.16	HVLLAIRNDEED	GKLLIAGVTIAH	GGVLPNIHT	VLLPKKVA.EKAA..AVA..KEPKSLKKA
OsH2A.6	HVLLAIYNDEED	SCWLASPSRM	VVCCRTST	RCRSKTT.EKSD..KLAKDKATKSPKKQGEQMRDEQLRDEGEVTAEIGTTTPTIGKDLIFRIDGE

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SiH2A.1
SiH2A.10
SbH2A.14
SiH2A.11
OsH2A.5
SbH2A.2
ZmH2A.8
ZmH2A.21
SiH2A.14
SbH2A.12
ZmH2A.17
OsH2A.2
OsH2A.12
AtH2A.5
AtH2A.7
AtH2A.3
SbH2A.7
BbH2A.7
ZmH2A.4
ZmH2A.5
ZmH2A.19
ZmH2A.18
ZmH2A.6
BbH2A.8
SbH2A.13
AtH2A.8
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ZmH2A.7
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OsH2A.8
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SiH2A.3
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ZmH2A.12
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SbH2A.11
ZmH2A.13
ZmH2A.3
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OsH2A.11
AtH2A.2
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AtH2A.6
SiH2A.7
SbH2A.15
ZmH2A.14
SbH2A.4
OsH2A.4
OsH2A.14
SiH2A.12
SbH2A.3
ZmH2A.9
ZmH2A.20
AtH2A.1
AtH2A.4
BbH2A.1
BbH2A.2
BbH2A.3
BbH2A.5
BbH2A.6
BbH2A.4
AtH2A.13
AtH2A.11
ZmH2A.25
ZmH2A.16
SbH2A.16
OsH2A.6
ILKEERGLEELROOHLGGWSMARLSKELEVEMLGMRDGGTEILGSSVGILTWDONHLKVYSISFPTSTHGPKIPSRSAASEYPLTMSSSWYIEKPPLI

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SiH2A.1	.	.	.
SiH2A.10	.	.	.
SbH2A.14	.	.	.
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OsH2A.5	.	.	.
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ZmH2A.8	.	.	.
ZmH2A.21	.	.	.
SiH2A.14	.	.	.
SbH2A.12	.	.	.
ZmH2A.17	.	.	.
OsH2A.2	.	.	.
OsH2A.12	.	.	.
AtH2A.5	.	.	.
AtH2A.7	.	.	.
AtH2A.3	.	.	.
SbH2A.7	.	.	.
BbH2A.7	.	.	.
ZmH2A.4	.	.	.
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ZmH2A.19	.	.	.
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ZmH2A.6	.	.	.
BbH2A.8	.	.	.
SbH2A.13	.	.	.
AtH2A.8	.	.	.
ZmH2A.15	.	.	.
SiH2A.2	.	.	.
SiH2A.8	.	.	.
SbH2A.9	.	.	.
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SiH2A.13	.	.	.
ZmH2A.24	.	.	.
SbH2A.5	.	.	.
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ZmH2A.10	.	.	.
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SbH2A.8	.	.	.
ZmH2A.7	.	.	.
OsH2A.1	.	.	.
OsH2A.3	.	.	.
SiH2A.5	.	.	.
SbH2A.17	.	.	.
ZmH2A.22	.	.	.
SiH2A.6	.	.	.
SbH2A.18	.	.	.
OsH2A.8	.	.	.
ZmH2A.23	.	.	.
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OsH2A.9	.	.	.
ZmH2A.2	.	.	.
OsH2A.13	.	.	.
SbH2A.10	.	.	.
ZmH2A.12	.	.	.
SiH2A.4	.	.	.
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ZmH2A.13	.	.	.
ZmH2A.3	.	.	.
OsH2A.10	.	.	.
OsH2A.11	.	.	.
AtH2A.2	.	.	.
AtH2A.9	.	.	.
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AtH2A.6	.	.	.
SiH2A.7	.	.	.
SbH2A.15	.	.	.
ZmH2A.14	.	.	.
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OsH2A.14	.	.	.
SiH2A.12	.	.	.
SbH2A.3	.	.	.
ZmH2A.9	.	.	.
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AtH2A.4	.	.	.
BbH2A.1	.	.	.
BbH2A.2	.	.	.
BbH2A.3	.	.	.
BbH2A.5	.	.	.
BbH2A.6	.	.	.
BbH2A.4	.	.	.
AtH2A.13	.	.	.
AtH2A.11	.	.	.
ZmH2A.25	.	.	.
ZmH2A.16	.	.	.
SbH2A.16	.	.	.
OsH2A.6	E F L T T T R H G H P T E I P C N L I G E A S W T S T W K G K I N G A G D K L P K L K G N K H I M G K I V F H I Q A H G I L G A Q I H Q N I R E W A Q P P C H W A N H S I A K	.	.