

	1	10	20	30	40	50	60	70	80	1	6	1	10
													
Am ASH	RRNARERNRV	KQVNNGFATLRQH	IP	QSV	QALGG	-----	STAGTHGGS	RAGSKKLS	KVETLRMAVEYIRSL			PEDEELLDVISWWQQS	
Tc ASH	RRNARERNRV	KQVNNGFATLRQH	IP	ASV	AAFA	-----	PQGPSTG	RGASKKLS	KVETLRLAVEYIRSL			PEDEELLD AIFSWQQN	
Dm L' sc	RRNARERNRV	KQVNNGFVNLRQH	LP	QTV	VNSLS	-----	NGGRGSS	KKLS	KVDTLRIA VEYIRGL			PDDEELLDYISSWQEQ	
Dm Sc	RRNARERNRV	KQVNNSFARLRQH	IP	QSI	ITDLT	-----	K-GGRGPH	KKIS	KVDTLRIA VEYIRRL			PDDEEILDYISLWQEQ	
Dm Ac	RRNARERNRV	KQVNNGFSQLRQH	IP	AAV	IADLS	-----	NGRRGIGP	GANKKLS	KVSTLKMAVEYIRRL			TEDEDILDYISLWQDD	
Dpu ASH	RRNARERNRV	KQVNMGFAVLRQH	IP	TSF	CEASTASD	-----	SGRSSSG	-----	GGSSKSRKVS	KVDTLRCAVEYIRSL		PNEDEELLD AISWWQQSQ	
Tl ASH1	RRNERERNRV	KQVNSGFALIRSH	IP	TAF	CTGSSS	-----	KHSNSSG	-----	NSSSSGKGRKVS	KVDTLRCAVEYIRSL		ASDDEELLD AISWWQQSQ	
Sm ASH	RRNERERNRV	KLVLNLFATLREHVP		NGA	-----	-----	-----	-----	KNKKMS	KVETLRS AVDYIRQL		PEDEELLD FSSWFS	---
Gm ASH	RRNERERNRV	KLVLNMGFATLREHVP		NGV	-----	-----	-----	-----	KNKKMS	KVETLRS AVDYIKRL		PEEEDXLDFTTWFS	---
Cs ASH1	RRNERERNRV	RQVNLGFATLRQHVP		N	-----	-----	-----	-----	RSKKMS	KVETLRS AVQYIRQL		PEDEELIDFTTWLS	---
Cs ASH2	RRNERERNRV	RLVLNLFANLRQHVP		NS	-----	-----	-----	-----	SKNKKMS	KVDTLRS AVEYIKQL		DDDDDLM EFASWL	---
Am Ase	RRNARERNRV	KQVNNGFATLRQH	IP	SHI	AAGYGD	-----	RG--	KKLS	KVETLRMAVEYIRGL	YKQEIT		TESGEFMDVVSWEQE	
Tc Ase	RRNARERNRV	KQVNNGFANLRQH	IP	NFI	AAAFESN	-----	SRGGN	KKLS	KVETLRMAVEYIRSL	LKNE-N		QHKTNVMDVMQWWEQQ	
Dm Ase	RRNARERNRV	KQVNNGFALLREKIP		EEV	SEAFEAQ	-----	G-AGRG	ASKKLS	KVETLRMAVEYIRSL	FKKEFS		LSDESMIDAIDWWEAH	
Dpu Ase	RRNARERNRV	KQVNTGFAVLRQH	IP	VLC	GSVIVYGGSPHCSE	PLSSSSSSSSSSSSSSSS	PPASSSS	KKNKMS	KVETLRCAVEYIRNL	FKQELL		SDHSLLESLSNSWWGSSL	
Tl ASH2	RRNERERNRV	KQVNSGFALIRQH	IP	LQV	LLSMAS	-----	ESGTSS	-----	P-TSHGGKKNKIS	KVDTLRCAVEYIRSL	IKSEWM	QQKNSLLPQTQKKKKKN	
	basic	Helix 1				Loop			Helix 2	ase motif		C-terminal motif	