

	260	270	280	290	300	310	320							
Smedwi-1	.NSSKGN	EFHENL	GKNFLT	ALTT	FQNKFN	MPRL	LIIVRD	GVGDS	QLAFT	TKKFE	ETDA	VMMK	IEKI	YENQ
Smedwi-2	VNSPKGR	EFHETL	GKNFNL	ALED	FKKRYDI	LPOR	LIVFRD	GVGDN	QLQFT	TKNFV	DAMK	PLIENI	YKNG	
D.japonica_Piwi	.NSPKGK	EFHDTL	SGNFKA	ALTE	FKRIYKI	LPVR	IMVYRD	GVGDS	QLQFT	TKQFE	V DAM	KPLV	ENIY	KENG
Macpiwi-3	ATQRH	.GQEI	LDSMR	VIVQS	QIAKY	MQTVG	APNV	IFVFRD	GVSDK	QIGEV	QQQEV	KAIYAA	IRG	YDPSY
D.melanogaster_PIWI	TECSA	.FDVL	ANTL	WPMIAK	ALROY	QHEHRK	LP	RIIVYRD	GVSSG	SLKQL	FEFEV	KDII	IEKL	KTEY
D.melanogaster_Aubergine	NEHIK	.GOEL	SEQM	SVNMAC	ALRSY	QEQHRS	LP	ERILFRD	GVGDG	QLYQV	VVNSE	VNTL	KDRL	DEIY
Macpiwi-1	PIVKGGK	ELHNRL	EVGFNL	ALQK	FREKNGD	LP	RIILYRD	GVGDS	MLEEV	VKNSEL	LQLK	QSL	SKIY	GERM
Macpiwi-2	PIVKGGK	ELHNRL	DAGFTM	ALQK	FREKNGE	LP	RIILYRD	GVGDS	MLEQV	VKNSEL	VQLK	QSL	SRIY	GDRI
H.sapiens_PIWIL4	ILQRT	.MTDV	ADCL	KVFM TG	ALNK	WYKYNHD	LP	RIIVYRD	GVGDG	QLKTL	IEYEV	PQLL	SSVAE	.SSSNT
A.californica_piwi1	EYHDK	.KAEI	MQLG	VLV TG	ALRK	FHETNQAN	PT	RVIVYRD	GVGDG	QLDAV	FOSE	KEQI	EQA	FRMAG
H.sapiens_PIWIL3	VIQKT	.GEEL	VKLE	ICLKA	ALDV	WCKNESS	MP	HSVIVYRD	GVGDG	QLQAL	LDHEA	AKK	MSTYL	KT
Smedwi-3	HLQEQ	.DKEI	MYVL	QSCMLS	LLKAY	FEENN	LP	ETIFMYRD	GVSDG	QLGYV	OKTEI	EQFF	KVFES	.FSADY
H.sapiens_PIWIL2	VFQMP	.HQEI	VDSL	KLCLVG	LKKF	YEVNHC	LP	KIVIVYRD	GVSDG	QLKTL	VANYE	IPQL	KCFEA	.F
H.sapiens_PIWIL1	IFQDR	.GQEL	VDSL	LKVLQA	ALRA	WNSCNEY	MP	HSVIVYRD	GVGDG	QLKTL	VNYEV	PQLD	CLS	.IGRGY
A.californica_piwi2	CIQRQ	.GQEL	VHGL	QLCLTK	GLRK	FHADNH	LP	KIVIVYRD	GVGDG	QLNTL	LADHE	VKQL	LHRC	FLS

	330	340	350	360	370	380								
Smedwi-1	.TL.PQ	IIVV	KKRISV	KFDG	.....	ANPN	PGTVVD	EKIV	KPNF	YEFY	LVSQ	KTTK	GTASPT	YNV
Smedwi-2	FPV.PQ	IIVV	KKRVTG	TKL	FNRG	.....	NNPN	PGTVVD	KEIV	KPNF	YEFF	LVSQ	R	TTK
D.japonica_Piwi	CQV.PQ	IIVV	KKRIGT	TKL	FNRG	.....	DNAN	PGTIVD	KEIV	KPNF	YEFF	LVSQ	R	TTK
Macpiwi-3	.R.PK	LVMV	QKRINQ	RLL	QG	.....	NNPN	PGTVLD	HSIT	RP	EMD	FFLV	QHV	TQ
D.melanogaster_PIWI	.LSP	QLAY	IIVV	TRSM	TRF	FLNG	.....	QNPP	PGTIVD	DVIT	LP	ERYD	FYLV	SQ
D.melanogaster_Aubergine	KQEG	CRM	TFI	VSKR	INSR	YFTGH	.....	RNPV	PGTVVD	DVIT	LP	ERYD	FYLV	SQ
Macpiwi-1	.SSL	GFKA	IIVV	KLVSSR	MFRK	QG	.....	SQLR	NP	AP	PGTVLD	DVIT	MPNF	VDF
Macpiwi-2	.SSL	GFKA	IIVV	KLVSSR	LFRR	GG	.....	NQLR	NP	AP	PGTVLD	DVIT	MPNF	VDF
H.sapiens_PIWIL4	.S.SR	LSV	IIVV	RKKCM	PRF	FTEMN	.....	RTVQ	NP	PL	PGTVVD	SEAT	RNEW	YDF
A.californica_piwi1	.K.PA	LTM	VIVV	KKRINTR	I	FKRAE	.....	KVMN	NP	PGSV	VDTF	IT	KQEW	YDF
H.sapiens_PIWIL3	.N.FT	LAF	IIVV	KKRINTR	F	LKHG	.....	SNFQ	NP	PGTVVD	VELT	RNEW	YDF	FVS
Smedwi-3	.K.PN	MVY	VVQ	KKRINTR	L	YVSD	PKNKG	QIN	NP	NP	PGTIVD	HTVT	RANL	YDF
H.sapiens_PIWIL2	.Q.PK	MVVF	VVQ	KKISTN	LY	LAAP	.....	QNFV	TP	TP	PGTVVD	HTIT	SCEW	YDF
H.sapiens_PIWIL1	.N.PR	LTV	IIVV	KKRVN	TRF	F	QAQSG	.....	GRLQ	NP	PGTVVD	VEVT	RP	EW
A.californica_piwi2	.Q.PL	ICST	VVQ	KKRINTR	I	FSKGD	.....	GGVD	NP	PGTVVD	HTVT	RRDR	YDF	FVS

	390	400	410	420	430	440								
Smedwi-1	LMD	TKFT	NKKT	NEVSV	MS	PSV	LOQ	ITYSL	THLY	FNWM	G	TIRV	VP	VPH
Smedwi-2	LED	TRLL	TKK	.GTMD	MAP	NEL	LOK	ITYAL	THLY	FNWM	G	TIRV	VP	VPV
D.japonica_Piwi	LED	TRYQ	NKA	.GII	EAIT	PNEL	OR	ITYTL	THLY	FNWM	G	TIRV	VP	VPV
Macpiwi-3	VEC	.A	.....	.GD	IPV	DEI	Q	LTFRS	CHLY	YNWA	G	SIRV	PA	PC
D.melanogaster_PIWI	LYS	.S	.....	.MGL	SP	EMQ	K	LYKM	CHLY	YNWS	G	TIRV	PA	AVC
D.melanogaster_Aubergine	ISD	.N	.....	.MGL	NAD	K	LO	MSYKM	THMY	YNYS	G	TIRV	PA	AVC
Macpiwi-1	IED	VND	.....	.AN	IK	PD	Q	Q	LT	YKLT	THLY	FN	WP	G
Macpiwi-2	IED	VND	.....	.AN	IR	PD	Q	Q	LT	YKLT	CHLY	FN	WP	G
H.sapiens_PIWIL4	IYD	.D	.....	.NGL	K	PD	H	OR	L	TFKL	CHLY	YN	WP	G
A.californica_piwi1	IFD	.E	.....	.SGL	K	PD	H	OR	L	TFKL	CHLY	YN	WP	G
H.sapiens_PIWIL3	IYD	.T	.....	.IGL	S	PD	T	V	OR	L	TYCL	CHMY	YN	LP
Smedwi-3	LCD	.N	.....	.SKY	T	PH	Q	V	OL	MAYKT	CHLY	YN	WP	G
H.sapiens_PIWIL2	VLN	.T	.....	.AN	L	S	PD	H	OR	L	TFKL	CHMY	YN	WP
H.sapiens_PIWIL1	IYD	.N	.....	.SGL	K	PD	H	OR	L	TYKLT	CHLY	YN	WP	G
A.californica_piwi2	VDD	.G	.....	.LQ	L	K	PD	H	OR	L	TYKLT	THLY	YN	WP