

		10	20	30	40	50	60
HSP1_PERGU	MASYR-NSRS	RSRSR F -RRR	RRGRSRVRGR	DAR Q GRSSR-	RRRRGKGR--	--AHSG K KGR	
HSP1_ISOMA	MASYR-NSRS	RSRSR F -RRR	RGRRSRVGR	DAR Q GRSSR-	RRRRGKGR--	--AHSG K KGR	
HSP1_MONDO	MARYRRRSRS	RSRSRYGRRR	RRSRS----R	RRRSRRRRR-	---RRGRR--	---GRGYHRR	
HSP1_DIDVI	MARYRRRSRS	RSRSRYGRRR	RRSRS----R	RRRSRRRRR-	---RRGRR--	---GRGYHRR	
HSP1_DROGL	MVRYRRHSRS	RSRSRY-RRR	RRRR--LRNR	RRRYRRSRRG	RRRRRRGS--	---RRGY S RR	
HSP1_NOTTY	MARYR-HSRS	RSRSRY-RRR	RRRRSRYRSQ	RRRYRRHRRS	GRRRRRGR--	---RRGY-RR	
HSP1_PHACI	MARYR-HSRS	RSRSRY-QRR	RRRRSRYRSQ	RRRYRRRRGS	RRRRRRGR--	---RRGY-RR	
HSP1_HYPMS	MARYR-HSRS	RSRSRY-RRR	RRRRSRYRGR	RRRYRRSRR-	RRRSRRGR--	---RGY Y RRR	
HSP1_LAGHI	MARYR-HSRS	ASRSGY-RRQ	RRRRSRYRSR	RRRYRRR-Q-	-RRSRRGR--	---RRGY S RR	
HSP1_DENDO	MARYR-HSRS	RXRSRY-RRR	RRXRSRYRSX	RRRYRGRRR-	RRSRRGRR--	---RRGY S RX	
HSP1_AEPRU	MARYR-HSRS	RSRSRY-RRR	RRRRSRYRSR	RRRYRGSRR-	RRRSRRRR--	---RRGY S RR	
HSP1_PSECU	MARYR-HSRS	RSRSRYRRRR	RRRRSRYRGR	RRRYRRSRR-	RRRRGRRRG	CLGRRGYRRR	
HSP1_TRIVU	MARYR-HSRS	RSRSRYRRRR	RRRRSRYRSR	RRRYRRSRR-	-RRRRGRR--	---RRGY S RR	
HSP1_CAEFU	MARYR-HSRS	RSRSRYRRRR	RRRRSRYRSR	RRRYRRSRR-	--RRRRGR--	---RRGY S RR	
HSP1_POTLO	MARYR-HSRS	RSRXRY-RRR	RRRRSRYRSR	RRRYRGSRR-	SRSSRRGR--	---RRGY S RR	
HSP1_LAGFA	MARYR-HSRS	RSRSRY-RRR	RRRRSRYRSR	RRRYRGSRR-	SRSSRRGR--	---RRGY S RR	
HSP1_BETPE	MARYR-HSRS	RSRSRY-RRR	RRRRSRYRSR	RRRYRGSRR-	RRSRRRGR--	---RRGY S RR	
HSP1_ONCFR	MARYR-HSRS	RSRSRY-RRR	RRRRSRYRSR	RRRYRGSRR-	-RRSRRGR--	---RRGY S RR	
HSP1_MACRU	MARYR-HSRS	ASRSRY-RRR	RRRRSRYRSQ	RRRYRGRRR-	RRSRRRGR--	---RRGY S RR	
HSP1_PETCN	MARYR-HSRS	RSRSRY-RRR	RRRRSRYRSR	RRRXRR--R-	RRSRRGRR--	---RRGY S RR	
HSP1_MACPA	MARYR-HSRS	RSRSRY-RRR	RRRRSRYRSR	RRRYRGRRR-	-XRSRRGR--	---RRGY S RR	
HSP1_MACEU	MARYR-HSRS	RSRSRY-RRR	RRRRSRYRSR	RRRSRGRRR-	RRSRRGRR--	---RRGY S RR	
HSP1_MACAG	MARYR-HSRS	RSRSRY-RRR	RRRRSRYRSR	RRRSRGRRR-	-RRSRRGR--	---RRGY S RR	
HSP1_DORVA	MARYR-HSRS	RSRSRY-RRR	RRRRSRYRSR	RRXYRGRRR-	RRSRRGRR--	---RRGY S RR	
HSP1_PETXA	MARYR-HSXS	RSRSRY-RRR	RRRRSRYRSR	RRRYRGRRR-	RRSRRGRR--	---RRGY S RR	
HSP1_THYST	MARYR-HSRS	RSRSRY-RRR	RRRRSRYRSR	RRRYRGRRR-	RRSRRGRR--	---RRGY S CR	
HSP1_MACGI	MARYR-HSRS	RSRSRY-RRR	RRRRSRYRSR	RRRYRGRRR-	RRSRRGRR--	---RRGY S RR	
HSP1_DORMU	MARYR-HSRS	RSRSRY-RRR	RRRRSRYRSR	RRRYRGRRR-	RRSRRGRR--	---RRGY S RR	
HSP1_WALBI	MARYR-HSRS	ASRSRY-RRR	RRRRSRYRSR	RRRYRGRRR-	RRSRRRGR--	---RRGY S RR	
HSP1_MACRG	MARYR-HSRS	RSRSRY-RRR	RRRRSRYRSR	RRRYRGRRR-	RRSRRGRR--	---RRGY S RR	
HSP1_ONYUN	MARYR-HSRS	RSRSRY-RRR	RRRRSRYRSR	RRRYRGRRR-	-RRSRRGR--	---RRGY S RR	
HSP1_DENGO	MARYR-HSRS	RSRSRY-RRR	RRRRSRYRSR	RRRYRGRRR-	-RRSRRGR--	---RRGY S RR	
HSP1_SETBR	MARYR-HSRS	RSRSRY-RRR	RRRRSRYRSR	RRRYRGRRR-	-RRSRRGR--	---RRGY S RR	
HSP1_DASHA	MARYRRRSRS	ASRSRY-RRR	RRRRSRGR-R	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_SARHA	MARYRRRSRS	ASRSRY-RRR	RRRRSRGR-R	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_DASMA	MARYRRRSRS	ASRSRY-RRR	RRRRSRGR-R	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_DASSP	MARYRRHSRS	ASRSRY-RRR	RRRRSRGR-R	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_NEOLO	MARYRRHSRS	ASRSRY-RRR	RRRRSRGR-R	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_DASVI	MARYRRHSRS	ASRSRY-RRR	RRRRSRGR-R	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_PHADO	MARYRRHSRS	ASRSRY-RRR	RRRRSRGR-R	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_DASAL	MARYRRHSRS	ASRSRY-RRR	RRRRSRGR-R	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_DASGE	MARYRRHSRS	ASRSRY-RRR	RRRRSRGR-R	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_DASRO	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_PSEBA	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_PARAP	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_PSENI	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_DASBY	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_MYOME	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_MYOWA	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_PSEMD	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_PSEWO	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_SMIGR	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRRR--	---RRGY S RR	
HSP1_SMIBI	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSIRRRGR--	---RRGY S RR	
HSP1_SMILO	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_ANTFL	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_NINTI	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_NINYV	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_PARRT	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_SMILE	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_PHATA	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_SMIPS	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_ANTBE	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_MICHA	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_ANTGO	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_ANTMI	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_ANTNA	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_ANTSW	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_MURME	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_SMIDO	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_SMIHI	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_SMIMA	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_SMIOO	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_SMIYO	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_PLAMM	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_SMIAR	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_DASCR	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_ANTLE	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_ANTST	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_MURLO	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_MYRFA	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_NINRI	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_SMIGA	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_SMIGI	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_PHACL	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_SMIMU	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_SMIVI	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_THYCY	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_SMIAI	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_SMICR	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_SMIDL	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_ANTLA	MARYRRHSRS	ASRSRY-RRR	RRRRSRHNR	RTYRRSRR-	HSRRRRGR--	---RRGY S RR	
HSP1_PLAMS	MAR C RRHSRS	ASRSRN-QCQ	RRRRRRY-NR	RTYRRSRR-	HSRRRRGR--	---RRG C SRR	
HSP1_PLAIN	MAR S RRHSRS	ASRSR--NQC	QRRRRRTYNR	RT M REKPR-	HSRRRRVR--	---RRG C SCR	
HSP1_PLAGI	MAR C RRHSRS	ASRSRN-QCQ	RRRR-RHYNR	RTYRRSRR-	HSRRRRVR--	---RRG C SCR	
HSP1_PLATE	MAR C RRHRS	ASRSRN-QCQ	RRRRRSHYNR	RTYRRSRR-	HSRRRRVR--	---RRG C SCR	
		70	80	90			
HSP1_PERGU	RSG-----SR	RRKRNNNTEN	K				
HSP1_ISOMA	RSG-----SR	RRKRNNENK-	-				
HSP1_MONDO	SPHRR---RR	RRRR-----	-				
HSP1_DIDVI	SPHRR---RR	RRRR-----	-				
HSP1_DROGL	RYQSR---RR	RRRRY-----	-				
HSP1_NOTTY	RYH-----S	HRRRY-----	-				
HSP1_PHACI	RY S -----RR	--RRY-----	-				
HSP1_HYPMS	RY S -----RR	RRRRYY-----	-				
HSP1_LAGHI	RY S RRRYSRR	RRRRY-----	-				
HSP1_DENDO	RY S -----RR	RRRRY-----	-				
HSP1_AEPRU	RY S -----R	RRRRY-----	-				
HSP1_PSECU	RY S -----RR	RRRRYY-----	-				
HSP1_TRIVU	RY S -----RR	GRRRY-----	-				
HSP1_CAEFU	RY S -----RR	RRRRY-----	-				
HSP1_POTLO	RY S -----R	RRRRY-----	-				
HSP1_LAGFA	RY S -----RR	RRRRY-----	-				
HSP1_BETPE	RY S -----RR	RRRRY-----	-				
HSP1_ONCFR	RY S -----RR	RRRRY-----	-				
HSP1_MACRU	RY S -----R	RRRRY-----	-				
HSP1_PETCN	RY S -----RR	RRRRY-----	-				
HSP1_MACPA	RY S -----RR	RRRRY-----	-				
HSP1_MACEU	RY S -----RR	RRRRY-----	-				
HSP1_MACAG	RY S -----RR	RRRRY-----	-				
HSP1_DORVA	RY S -----RR	RRRRY-----	-				
HSP1_PETXA	RY S -----RR	RRRRY-----	-				
HSP1_THYST	RY S -----RR	RRRRY-----	-				
HSP1_MACGI	RY S -----R	RRRRY-----	-				
HSP1_DORMU	RY S -----RR	RRRRY-----	-				
HSP1_WALBI	RY S -----RR	RRRRY-----	-				
HSP1_MACRG	RY S -----RR	RRRRY-----	-				
HSP1_ONYUN	RY S -----RR	RRRRY-----	-				
HSP1_DENGO	RY S -----RR	RRRRY-----	-				
HSP1_SETBR	RY S -----RR	RRRRY-----	-				
HSP1_DASHA	RY S -----RR	GRRR-----	-				
HSP1_SARHA	RY S -----RR	GRRRY-----	-				
HSP1_DASMA	RY S -----RR	GRRRY-----	-				
HSP1_DASSP	RY S -----RR	GRRRY-----	-				
HSP1_NEOLO	RY S -----RR	GRRRY-----	-				
HSP1_DASVI	RY S -----RR	GRRRY-----	-				
HSP1_PHADO	RY S -----RR	GRRRY-----	-				
HSP1_DASAL	RY S -----RR	GRRRY-----	-				
HSP1_DASGE	RY S -----RR	GRRRY-----	-				
HSP1_DASRO	RY S -----RR	GRRRY-----	-				
HSP1_PSEBA	RY S -----RR	GRRR-----	-				
HSP1_PARAP	RY S -----RR	GRRRY-----	-				
HSP1_PSENI	RY S -----RR	GRRRY-----	-				
HSP1_DASBY	RY S -----RR	GRRRY-----	-				
HSP1_MYOME	RY S -----RR	GRRRY-----	-				
HSP1_MYOWA	RY S -----RR	GRRRY-----	-				
HSP1_PSEMD	RY S -----RR	GRRRY-----	-				
HSP1_PSEWO	RY S -----RR	GRRRY-----	-				
HSP1_SMIGR	RY S -----RR	GRRRY-----	-				
HSP1_SMIBI	RY S -----RR	GRRRY-----	-				
HSP1_SMILO	RY S -----RR	-RRRY-----	-				
HSP1_ANTFL	RY S -----RR	GRRRY-----	-				
HSP1_NINTI	RY S -----RR	GRRRY-----	-				
HSP1_NINYV	RY S -----RR	GRRRY-----	-				
HSP1_PARRT	RY S -----RR	GRRRY-----	-				
HSP1_SMILE	RY S -----RR	GRRRY-----	-				
HSP1_PHATA	RY S -----RR	GRRRY-----	-				
HSP1_SMIPS	RY S -----RR	GRRRY-----	-				
HSP1_ANTBE	RY S -----RR	GRRRY-----	-				
HSP1_MICHA	RY S -----RR	GRRRY-----	-				
HSP1_ANTGO	RY S -----RR	GRRRY-----	-				
HSP1_ANTMI	RY S -----RR	GRRRY-----	-				
HSP1_ANTNA	RY S -----RR	GRRRY-----	-				
HSP1_ANTSW	RY S -----RR	GRRRY-----	-				
HSP1_MURME	RY S -----RR	GRRRY-----	-				
HSP1_SMIDO	RY S -----RR	GRRRY-----	-				
HSP1_SMIHI	RY S -----RR	GRRRY-----	-				
HSP1_SMIMA	RY S -----RR	GRRRY-----	-				
HSP1_SMIOO	RY S -----RR	GRRRY-----	-				
HSP1_SMIYO	RY S -----RR	GRRRY-----	-				
HSP1_PLAMM	RY S -----RR	GRRRY-----	-				
HSP1_SMIAR	RY S -----RR	GRRRY-----	-				
HSP1_DASCR	RY S -----RR	GRRRY-----	-				