

(A) *INTS1*

SUG1_0492850	QFLFL	DFQS	YFPM	EIF	E	IECN	SLQL	LS	FCTQ	ASEE	VL	ARVILL	GITD	VYPL	TM	DAL	SIIE	SLVW	RRA	630
Gosenshi-1_a1	QFLFL	DFQS	YFPM	EIF	E	IECN	SLQL	LS	FCTQ	ASEE	VL	ARVILL	GITD	VYPL	TM	DAL	SIIE	SLVW	RRA	630
Gosenshi-1_a2	QFLFL	DFQS	YFPM	EIF	E	IECN	SLQL	LS	FCTQ	ASEE	VL	ARVILL	GITD	VYPL	TM	DAL	SIIE	SLVW	RRA	630
S1-2_ms	XFLFL	DFQS	YFPM	EIF	E	IECN	SLQL	LS	FCTQ	ASEE	VL	ARVILL	GITD	VYTL	TM	DAL	SIIE	SLVW	RRA	630

SUG1_0492850	AAFETL	FKL	L	HAKSN	QLPS	A	I	IKLAS	FSLP	GI	PQQS	LSHL	VYKD	KYWR	AC	LVLL	VVAV	VYN	PVTV	GLYV	WE	700
Gosenshi-1_a1	AAFETL	FKL	L	HAKSN	QLPS	A	I	IKLAS	FSLP	GI	PQQS	LSHL	VYKD	KYWR	AC	LVLL	VVAV	VYN	PVTV	GLYV	WE	700
Gosenshi-1_a2	AAFETL	FKL	L	HAKSN	QLPS	A	I	IKLAS	FSLP	GI	PQQS	LSHL	VYKD	KYWR	AC	LVLL	VVAV	VYN	PVTV	GLYV	WE	700
S1-2_ms	AAFETL	FKL	L	HAKSN	QLPS	A	I	IKLAS	FSLP	GI	PQQS	LSHL	VYKD	KYWR	AC	LVLL	VVAV	VYN	PVTV	GLYV	WE	700

SUG1_0492850	HNSTV	RQMM	Q	MVLT	SQKF	F	SLDD	DTA	NL	KVDD	LASE	AT	TSDA	KAEE	LI	YSHQ	LNRE	EHT	NR	TASSE	ISL	770
Gosenshi-1_a1	HNSTV	RQMM	Q	MVLT	SQKF	F	SLDD	DTA	NL	KVDD	LASE	AT	TSDA	KAEE	LI	YSHQ	LNRE	EHT	NR	TASSE	ISL	770
Gosenshi-1_a2	HNSTV	RQMM	Q	MVLT	SQKF	F	SLDD	DTA	NL	KVDD	LASE	AT	TSDA	KAEE	LI	YSHQ	LNRE	EHT	NR	TASSE	ISL	770
S1-2_ms	HNSTV	RQMM	Q	MVLT	SQKF	F	SLDD	DTA	NL	KVDD	LASE	AT	TSDA	KAEE	LI	YSHQ	LNRE	EHT	NR	TTASSE	ISL	770

SUG1_0492850	DSYEW	R	NVT	LLNTS	VV	R	LPQS	IIEE	LE	EVDK	VYQL	LR	VLRE	CRSP	DPY	FAQI	TCLO	TL	SKSW	WLRR	I	840
Gosenshi-1_a1	DSYEW	R	NVT	LLNTS	VV	R	LPQS	IIEE	LE	EVDK	VYQL	LR	VLRE	CRSP	DPY	FAQI	TCLO	TL	SKSW	WLRR	I	840
Gosenshi-1_a2	DSYEW	R	NVT	LLNTS	VV	R	LPQS	IIEE	LE	EVDK	VYQL	LR	VLRE	CRSP	DPY	FAQI	TCLO	TL	SKSW	WLRR	I	840
S1-2_ms	DSYEW	R	NVT	LLNTS	VV	R	LPQS	IIEE	LE	EVDK	VYQL	LR	VLRE	CRSP	DPY	FAQI	TCLO	TL	SKSW	WLRR	I	840

SUG1_0492850	LCQEP	ELVS	V	LPFM	WQCK	LL	YMQE	GSVS	SS	G	KNFV	DSRK	L	YLAIS	SKVI	ID	KSHE	KEVT	AF	VEYF	SPKL	SD	910
Gosenshi-1_a1	LCQEP	ELVS	V	LPFM	WQCK	LL	YMQE	GSVS	SS	G	KNFV	DSRK	L	YLAIS	SKVI	ID	KSNE	KEVAA	F	VEYF	SPKL	SD	910
Gosenshi-1_a2	LCQEP	ELVS	V	LPFM	WQCK	LL	YMQE	GSVS	SS	G	KNFV	DSRK	L	YLAIS	SKVI	ID	KSNE	KEVAA	F	VEYF	SPKL	SD	910
S1-2_ms	LCQEP	ELVS	V	LPFM	WQCK	LL	YMQE	GSVS	SS	G	KNFV	DSRK	L	YLAIS	SKVI	ID	KSNE	KEVAA	F	VEYF	SPKL	SD	910

SUG1_0492850	KNSL	IR	CQ	AR	CFFAR	MFNI	S	FEFL	NEVSP	S	CD	S	QSYF	ST	LNTS	FDCC	IL	PR	DMPE	EETT	RNSF	FP	PY	YD	980
Gosenshi-1_a1	KNSL	IR	CQ	AR	CFFAR	MFNI	S	FEFL	NEVSP	S	CD	S	QSYF	ST	LNTS	FDCC	IL	PR	DMPE	EETT	RNSF	FP	PY	YD	980
Gosenshi-1_a2	KNSL	IR	CQ	AR	CFFAR	MFNI	S	FEFL	NEVSP	S	CD	S	QSYF	ST	LNTS	FDCC	IL	PR	DMPE	EETT	RNSF	FP	PY	YD	980
S1-2_ms	KNSL	IR	CQ	AR	CFFAR	IFNI	S	FEFL	NEVSP	S	CD	S	QSYF	ST	LNTS	FDCC	IL	PR	DMPE	EETT	RNSF	FP	PY	YD	980

SUG1_0492850	WLEQ	I	THP	NAHA	IL	SLV	PAIQ	HAVL	VE	TTFE	VIIA	ACL	KFLE	KYSP	PPF	PSLL	SF	SCTI	ARLL	VQR	KEL	1050
Gosenshi-1_a1	WLEQ	I	THP	NAHA	IL	SLV	PAIQ	HAVL	VE	TTFE	VIIA	ACL	KFLE	KYSP	PPF	PSLL	SF	SCTI	ARLL	VQR	KEL	1050
Gosenshi-1_a2	WLEQ	I	THP	NAHA	IL	SLV	PAIQ	HAVL	VE	TTFE	VIIA	ACL	KFLE	KYSP	PPF	PSLL	SF	SCTI	ARLL	VQR	KEL	1050
S1-2_ms	WLEQ	I	THP	NAHA	IL	SLV	PAIQ	HAVL	VE	TTFE	VIIA	ACL	KFLE	KYSP	PPF	PSLL	SF	SCTI	ARLL	VQHK	EL	1050

(B) *GELP*

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20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360

SUGI_0493010 MALSMNLLVF MICSII SCFA MSLSYSISNT EYVAFVFGDS LVDAGNN DYL FTLSKADSP YGIDFSPSGG 70
Gosenshi-1_a1 MALSMNLLVF MICSII SCFA MSLSYSISNT EYVAFVFGDS LVDAGNN DYL FTLSKADSP YGIDFSPSGG 70
Gosenshi-1_a2 MALSMNLLVF MICSII SCFA MSLSYSISNT EYVAFVFGDF LVDAGNN DYL FTLSKADSP YGIDFSPSGG 70
S1-2_ms MALSMNLLVF MICSII SCFA MSLSYSISNT EYVAFVFGDF LVDAGNN DYL FTLSKADSP YGIDFSPSGG 70

SUGI_0493010 HPTGRFTNGK TISDIVGEQL GAKSFPPPYL APSTHGTAIL GGVNYASGAA GILNDTGSIF IGRLLSLDRQI 140
Gosenshi-1_a1 HPTGRFTNGK TISDIVGEQL GAKSFPPPYL APSTHGTAIL GGVNYASGAA GILNDTGSIF IGRLLSLDRQI 140
Gosenshi-1_a2 HPTGRFTNGK TISDIVGEQL GAKSFPPPYL APSTHGTAIL GGVNYASGAA GILNDTGSIF IGRLLSLDRQI 140
S1-2_ms HPTGRFTNGK TISDIVGEQL GAKSFPPPYL APSTHGTAIL GGVNYASGAA GILNDTGSIF IGRLLSLDRQI 140

SUGI_0493010 DYFEDTKEEL VKMLGDKNAE EFLGKALFSI TVGANDFLNN FLNPI SPKRP SPHSFEESMI AQYRLQIERL 210
Gosenshi-1_a1 DYFEDTKEEL VKMLGDKNAE EFLGKALFSI TVGANDFLNN FLNPI SPKRP SPHSFEESMI AQYRLQIERL 210
Gosenshi-1_a2 DYFEDTKEEL VKMLGDKNAE EFLGKALFSI TVGANDFLNN FLNPI SPKRP SPHSFEESMI AQYRLQIERL 210
S1-2_ms DYFEDTKEEL VKMLGDKNAE EFLGKALFSI TVGANDFLNN FLNPI SPKRP SPHSFEESMI AQYRLQIERL 210

SUGI_0493010 YDLGARKFVI AAVGP IGCIP YDRAINFLPN RSCSASSNEL VTAYNQLLRN LISELNTRLS GAKLIYANSY 280
Gosenshi-1_a1 YDLGARKFVI AAVGP IGCIP YDRAINFLPN RSCSASSNEL VTAYNQLLRN LISELNTRLS GAKLIYANSY 280
Gosenshi-1_a2 YDLGARKFVI AAVGP IGCIP YDRAINFLPN RSCSASSNEL VTAYNQLLRN LISELNTRLS GAKLIYANSY 280
S1-2_ms YDLGARKFVI AAVGP IGCIP YDRAINFLPN RSCSASSNEL VTAYNQLLRN LISELNTRLS GAKLIYANSY 280

SUGI_0493010 DIVLDMFQNY ANYGFENADD SCCGDVSALV PCSLKS NMCH DRSKYLFWDA YHPTEAANI I IGKLF LDGNL 350
Gosenshi-1_a1 DIVLDMFQNY ANYGFENADD SCCGDVSALV PCSLKS NMCH DRSKYLFWDA YHPTEAANI I IGKLF LDGNL 350
Gosenshi-1_a2 DIVLDMFQNY ANYGFENADD SCCGDVSALV PCSLKS NMCH DRSKYLFWDA YHPTEAANI I IGKLF LDGNL 350
S1-2_ms DIVLDMFQNY ANYGFENADD SCCGDVSALV PCSLKS NMCH DRSKYLFWDA YHPTEAANI I IGKLF LDGNL 350

SUGI_0493010 SCVYPMNIRQ LLLL * 365
Gosenshi-1_a1 SYVYPMNIRQ LLLL * 365
Gosenshi-1_a2 SYVYPMNIRQ LLLL * 365
S1-2_ms SYVYPMNIRQ LLLL * 365