

Ath_KAN1	-----MSMEG	VFLEKTKT	--	NTTTTLPDL	SLHIS	LPDI	HOYHH	-----
Amb-tric_KAN1	-----MPTQG	VFMEPPRS	--	L-----PDL	SLHIS	PPNS	GATPS	-----
Cam-sat_KAN1	-----MSMEG	VFLEKPKSNT	TTTTTTL	PDL	SLHIS	LPDI	HHHHH	-----
Bras-ole_KAN1-like	-----MEG	VFLEKPKS	--	NTTTLPDL	SLNIS	LPDI	TSKEH	-----
Bra-nap_KAN1-like	-----MEG	VFLEKPKS	--	NTTTLPDL	SLNIS	LPDI	TSKEH	-----
Vit-vin_KAN1	-----MPLEG	VFIEPSSN	--	PV---PDL	SLHIS	PPNN	TSSPT	---SIC
Pru-mum_KAN1-variantX1	-----MPLEG	IFIEPSST	--	TTSPLPDL	SLHIS	PPNT	SSSSL	---SIF
The-cacao_KAN1-variantX1	-----MPLEG	VFVEPSSN	--	PI---PDL	SLHIS	PP--	KASTS	---MIC
Ric-com_KAN1-variantX1	-----MPLEG	VFIEPSSN	--	PV---PDL	SLHIS	PP-N	TSSSS	---VCN
Pop-eup_KAN1	-----MPLEG	FFIEPSSN	--	PV---PDL	SLHIS	PP-N	ISSSS	---SLC
Pru-per_KAN1-variantX1	-----MPLEG	IFIEPSST	--	TTSPLPDL	SLHIS	PPNT	SSSSL	---SIF
Sol-tub_KAN1-like-variantX2	-----MPLEG	VFIEPSSN	--	STKQIPDL	SLNIS	PPTN	LDLSS	-----
Nel-nuc_KAN1-variantX1	-----MPLEG	MFIEPSSV	--	PT---PDL	SLHIS	PP--	NSAPS	---SIC
Vig-rad_KAN1	-----MPLEG	IFIEPTST	--	ST---PDL	SLHIS	PPST	SSSSS	---LIC
Ath_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNS	KPSST	---WQR
Amb-tri_KAN2	-----	MELSPA	--	P---PDL	SLQIS	LPNS	KPTSN	-----
Ara-tha_GARP-like_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNS	KPSST	---WQR
Cam-sat_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNS	KPSST	---WQR
Bra-nap_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNS	QPSST	---WQR
Bra-rapa_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNS	QPSST	---WQR
Cit-sin_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNS	KPSST	---WSS
Vit-vin_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNS	KPSSG	---W--
The-cacao_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNS	KPSST	---W--
Med-tru_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNT	KQTTTSNWK	---KR
Glycine_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNA	KPTSS	---W--
Vig-rad_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNA	KPTST	---W--
Vig-ang_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNA	KPTST	---W--
Vit-vin_KAN2-variantX4	-----	MELFPA	--	Q---PDL	SLQIS	PPNS	KPSSG	---W--
Pop-trichocarpa	-----	MELFPA	--	Q---PDL	SLQIS	PPNS	KPTST	---W--
Ath_KAN3	-----	MELFPS	--	Q---PDL	YLKIS	RRRE	EQEEK	-----
Bra-napus_KAN3	-----	MELFPS	--	Q---PDL	YLKIN	RRRE	EQEEE	-----
Bra-nap_KAN3	-----	MELFPS	--	Q---PDL	YLKIN	RRRE	EQEEE	-----
Cam-sat_KAN3	-----	MELFPS	--	Q---PDL	YLKIS	RRRE	EQEEE	-----
Raph-sat_KAN3	-----	MELFPS	--	Q---PDL	YLKIN	RRRE	EQEEE	-----
Vig-ang_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNA	KPTST	---W--
Med-tru_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNT	KQTTTSNWK	---KR
Vig-rad_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNA	KPTST	---W--
Glyc_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNA	KPTSS	---W--
Vit-vin_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNS	KPSSG	---W--
Theo-cac_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNS	KPSST	---W--
Pop-tri_hypothetical.protein	-----	MELFPA	--	Q---PDL	SLQIS	PPNS	KPTST	---W--
Ric-com_KAN2	-----	MELFPA	--	Q---PDL	SLQIS	PPNS	KPTST	---W--
Ath_KAN4	---MMMLES	NSMRASNS	--	V---PDL	SLQIS	LPNY	HAGKP	-----
Ric-com_KAN4	---MFSSSN	LMMRTASS	--	L---PDL	SLQIS	PPLA	SDCEA	-----
Pop-tri_KAN4	---MFSSSKHI	IMRSVSPF	-----	-----PDL	SLQIS	PPSV	EAKET	-----
Nel-nuc_KAN4	-----	MRTTLPF	-----	-----PDL	SLQIS	PPTI	PDCEG	-----
The-cac_KAN4	---MFTSSN	NIMRITPL	-----	-----PDL	SLQIS	PPSV	SDCKA	-----
Vit-vin_KAN4	---MFFSSNP	IMGTTSPL	-----	-----PDL	SLQIS	PPSI	SDCEV	-----
Glycine_KAN4	MFTNSQTVMQ	TLSSPSA	---E	---PDL	SLNIS	PPSI	SDSEA	-----
Sol-lyc_KAN4	-----M	TKDTLLST	---V	---PDL	SLQISL	PSCI	LRSDQ	-----
Med-tru_KAN4	-----MH	TLFSPLE	-----	-----PDL	SLNISL	PPSI	SDSEP	-----
Vit-vin_KAN4	---MFFSSNP	IMGTTSPL	-----	-----PDL	SLQIS	PPSI	SDCEV	-----
Pop-tri_KAN4	-----	MMRAASPF	-----	-----PDL	SLQIS	PPAV	LEAKE	-----
Sol_tub_KAN4	---M	TTDTVLST	---V	---PDL	SLQISL	PSSI	LKSNO	-----
Pru-per_KAN4	-----	MYLMNPIK	RTSTSP	LPDL	SLQIS	PPSA	ADNOY	-----
Amb-tri_KAN4	-----	MDMRAG	---HVF	---PDL	SLQIS	PPSQ	MDLEM	-----
Fra-vesca_KAN4	---MMYLSSNSNP	IMRSTSSP	---L	---PDL	SLQIS	PPSD	HYEIA	-----
Mus-acu_KAN4	-----	MATIF	-----	-----PDL	SLHIS	PPAI	SVDGS	-----
Glyc_KAN4	-----	-----	-----	-----PDL	-----	-----	-----	-----
Glyc_KAN4	---MYTTWHTGM	ATFAPLPE	-----	-----PDL	SLNIS	PPFI	SDSDA	-----
Cam-sat_KAN4	---MIMLESRN	SIMRASNS	---V	---PDL	SLQISL	LPNS	QAGKP	-----
Bra-rapa_KAN4	---MIMFESR	SSVRGSNS	---V	---PDL	SLQIS	LPNS	HAEKP	-----
Bra-nap_KAN4	---MIMFESR	SSVRGSNS	---V	---PDL	SLQIS	LPNS	HAEKP	-----

Ath_KAN1	PDR	---	RTLN	LPHQQH	---	---	---	---	YNNPII	---	---	N
Amb-tric_KAN1	SLP	---	HFQ	NHHQH	---	---	---	---	---	---	P	
Cam-sat_KAN1	PDR	---	RNLN	LPHHQH	---	---	---	---	YNNPII	NGG	S	
Bras-ole_KAN1-like	PDP	---	RNLN	LPHHQH	---	---	---	---	YNNPIL	NG	G	
Bra-nap_KAN1-like	PDP	---	RNLN	LPHHQH	---	---	---	---	YNNPIL	NG	G	
Vit-vin_KAN1	QNR	---	HHH	LSHHPN	---	---	---	---	NNLN	H	I	
Pru-mum_KAN1-variantX1	HHQ	---	QQS	LPLYR	---	---	---	---	SSNHLN	H	I	
The-cacao_KAN1-variantX1	LT	---	HRH	LHP	---	---	---	---	TNTHLN	H	I	
Ric-com_KAN1-variantX1	QQS	---	HNH	LHQHHH	---	---	---	---	NTHHLN	H	L	
Pop-eup_KAN1	QHS	---	HNH	QQQQOHLHHS	NS	---	---	---	TTHHLN	H	I	
Pru-per_KAN1-variantX1	HHQ	---	QQS	LPLYR	---	---	---	---	SSNHLN	H	I	
Sol-tub_KAN1-like-variantX2	NHH	---	HQH	HHQSN	---	---	---	---	YSHMVQ	PM	N	
Nel-nuc_KAN1-variantX1	HYS	---	QHH	HLRHP	---	---	---	---	NSNRLN	H	L	
Vig-rad_KAN1	QTQ	---	QPH	FHHLHHHSNT	GNASKPATAT	---	---	---	TTTSSSNHLN	H	I	
Ath_KAN2	QQQ	---	QHH	HPQLLPNCN	---	---	---	---	SSNILT	SFQFPTQQQQ	Q	
Amb-tri_KAN2	---	---	---	---	---	---	---	---	---	---	E	
Ara-tha_GARP-like_KAN2	QQQ	---	QHH	HPQLLPNCN	---	---	---	---	SSNILT	SFQFPTQQQQ	Q	
Cam-sat_KAN2	QQH	---	QHH	QPHLVPNCN	---	---	---	---	GSNILT	SFQFPTQQQQ	Q	
Bra-nap_KAN2	HHQQIFTSFQ	---	---	FPTQQ	---	---	---	---	---	---	Q	
Bra-rapa_KAN2	HHQQIFTSFQ	---	---	FPTQQ	---	---	---	---	---	---	Q	
Cit-sin_KAN2	SFHHQQNHSQ	---	---	FPTHHH	---	---	---	---	LHQN	QHHPVLYHQ	Q	
Vit-vin_KAN2	SFQ	---	QSQ	YPHHHH	---	---	---	---	HQHQLH	HQ	L	
The-cacao_KAN2	TYH	---	QNQ	FPHRHQ	---	---	---	---	LQHPVL	YQ	H	
Med-tru_KAN2	FHONNYFQHP	---	---	HPQPLFOHHQ	---	---	---	---	---	---	P	
Glycine_KAN2	PFQ	---	KNH	YFHQQQQPL	---	---	---	---	---	---	F	
Vig-rad_KAN2	PFQ	---	QNH	YFHQPL	---	---	---	---	---	---	F	
Vig-ang_KAN2	PFQ	---	QNH	YFHQPL	---	---	---	---	---	---	F	
Vit-vin_KAN2-variantX4	SFQ	---	QSQ	YPHHHH	---	---	---	---	HQHQLH	HQ	L	
Pop-trichocarpa	SFQ	---	QNQ	YTHHHH	---	---	---	---	QQNHLH	NHHPVLF	Q	
Ath_KAN3	NNE	---	ATK	INS	---	---	---	---	---	---	N	
Bra-napus_KAN3	NNE	---	PTK	IDH	---	---	---	---	---	---	N	
Bra-nap_KAN3	NNE	---	PTK	IDH	---	---	---	---	---	---	N	
Bra-nap_KAN3	NNE	---	PTK	IDH	---	---	---	---	---	---	N	
Cam-sat_KAN3	GNN	---	---	---	---	---	---	---	---	---	N	
Raph-sat_KAN3	DNK	---	PSK	IDH	---	---	---	---	---	---	N	
Vig-ang_KAN2	PFQ	---	QNH	YFHQPL	---	---	---	---	---	---	F	
Med-tru_KAN2	FHONNYFQHP	---	---	HPQPLFOHHQ	---	---	---	---	---	---	P	
Vig-rad_KAN2	PFQ	---	QNH	YFHQPL	---	---	---	---	---	---	F	
Glyc_KAN2	PFQ	---	KNH	YFHQQQQPL	---	---	---	---	---	---	F	
Vit-vin_KAN2	SFQ	---	QSQ	YPHHHH	---	---	---	---	HQHQLH	HQ	L	
Theo-cac_KAN2	TYH	---	QNQ	FPHRH	---	---	---	---	N	QLQHPVLYQH	Q	
Pop-tri_hypothetical.protein	SFQ	---	QNQ	YTHHHH	---	---	---	---	QQNHLH	NHHPVLF	Q	
Ric-com_KAN2	SFQ	---	QNQ	YPHHQPKS	---	---	---	---	HLLHQH	SPHFQQQQHH	Q	
Ath_KAN4	---	---	---	---	---	---	---	---	---	---	N	
Ric-com_KAN4	---	---	QER	SYN	---	---	---	---	---	---	N	
Pop-tri_KAN4	ERS	---	---	---	---	---	---	---	---	---	Y	
Nel-nuc_KAN4	ERA	---	---	---	---	---	---	---	---	---	Y	
The-cac_KAN4	---	---	---	---	---	---	---	---	---	---	S	
Vit-vin_KAN4	ESG	---	---	---	---	---	---	---	---	---	F	
Glycine_KAN4	---	---	NLG	HHHRE	---	---	---	---	---	---	P	
Sol-lyc_KAN4	EIKKAFNLPL	---	---	IPTFE	---	---	---	---	---	---	F	
Med-tru_KAN4	PHQ	---	RDP	TLRLG	---	---	---	---	---	---	F	
Vit-vin_KAN4	ESG	---	---	---	---	---	---	---	---	---	F	
Pop-tri_KAN4	---	---	QDR	IAYNL	---	---	---	---	---	---	F	
Sol-tub_KAN4	EIKKVFNLPL	---	---	IPSFE	---	---	---	---	---	---	F	
Pru-per_KAN4	ERS	---	TG	Y	---	---	---	---	---	---	N	
Amb-tri_KAN4	HHR	---	---	---	---	---	---	---	---	---	LM	
Fra-vesca_KAN4	DQR	---	TSY	NPAAA	---	---	---	---	---	---	R	
Mus-acu_KAN4	DQG	---	---	---	---	---	---	---	---	---	R	
Glyc_KAN4	---	---	---	---	---	---	---	---	---	---	Y	
Glyc_KAN4	DTA	---	---	---	---	---	---	---	---	---	Y	
Cam-sat_KAN4	PLL	---	SLG	FDHH	---	---	---	---	---	---	Y	
Bra-rapa_KAN4	HLL	---	SLG	FDHHH	---	---	---	---	---	---	Y	
Bra-nap_KAN4	HLL	---	SLG	FDHHH	---	---	---	---	---	---	Y	

Ath_KAN1	-NNAYRSLQS	SPRLKGVPLH	HHHHHNQY	---	G V V G S S	D S S S P H H H N H
Amb-tric_KAN1	---RFGGLSS	-ETLKSHHHN	HHHFGGVS	---	---	---
Cam-sat_KAN1	-NNAYRSLQS	SPRLKGVPLH	HHHHHNHY	---	G I V G S S D	S S S P H H H N H H
Bras-ole_KAN1-like	-NNAYRSLQS	SPRLRGVPLH	HHHHHNHY	---	-G	V V G S T D S S S P
Bra-nap_KAN1-like	-NNAYRSLQS	SPRLRGVPLH	HHHHHNHY	---	-G	V V G S T D S S S P
Vit-vin_KAN1	AA-RLNGLSS	-DAFKSHQLH	HHHVPSHH	---	G V	GPSE
Pru-mum_KAN1-variantX1	---RFNGFSS	MDPFKSSNQL	HHHHHLHHLH	HNQYGI	GGVG	PISE
The-cacao_KAN1-variantX1	TI-RFNGISK	-DAFKSHQLH	QQPQHSY	---	GI	GSSD
Ric-com_KAN1-variantX1	TA-RFNGLSM	-DAFKS	---H	HQLHHHHH	---	GSGE
Pop-eup_KAN1	TT-RFNGLSM	-DAFKSHQLH	HHHHHHHN	---	OYGV	GSTE
Pru-per_KAN1-variantX1	---RFNGFSS	MDPFKSSNHL	HHHHHLHHLH	HNQYGI	GGVG	PISE
Sol-tub_KAN1-like-variantX2	---	---SSYHHVPHH	---	LSQYGH	LGGL	GHNSHHENIA
Nel-nuc_KAN1-variantX1	AASRFENGLSS	-DTLKPHQLH	SLHHPHQY	---	GI	GPSD
Vig-rad_KAN1	AT-RFNGISG	-EAFKSHHPL	HHHHSSSH	---	YGV-GLG	GSHE
Ath_KAN2	---	---PNYHNHHH	---	---	---	---
Amb-tri_KAN2	---	---SSYNFGS	---	---	---	---
Ara-tha_GARP-like_KAN2	---	---PNYHNHHH	---	---	---	---
Cam-sat_KAN2	---	---PNYHNHHHH	H	---	---	---
Bra-nap_KAN2	---	---SRVNPHHN	HH	---	---	---
Bra-rapa_KAN2	---	---SRVNPHHN	HH	---	---	---
Cit-sin_KAN2	---	---SSLNSFQSQ	---	---	---	---
Vit-vin_KAN2	---	---SPFQSHH	---	---	---	---
The-cacao_KAN2	---	---SPFQS	---	---	---	---
Med-tru_KAN2	---	---SPFQS	---	---	---	---
Glycine_KAN2	---	---TPFHS	---	---	---	---
Vig-rad_KAN2	---	---TPFHS	---	---	---	---
Vig-ang_KAN2	---	---TPFHS	---	---	---	---
Vit-vin_KAN2-variantX4	---	---SPFQSHH	---	---	---	---
Pop-trichocarpa	---	---SPYQS	---	---	---	---
Ath_KAN3	---	---FNLHNRHRR	QAQPQP	---	---	---
Bra-napus_KAN3	---	---PPFFFSEVN	GQHTNPSY	---	---	---
Bra-nap_KAN3	---	---PPFFFSEVN	GQHANPSY	---	---	---
Bra-nap_KAN3	---	---PPFFFSEVN	GQHANPSY	---	---	---
Cam-sat_KAN3	---	---YNLHHRNRR	QAQPQP	---	---	---
Raph-sat_KAN3	---	---TPFFFSEVN	GQHANPNY	---	---	---
Vig-ang_KAN2	---	---TPFHS	---	---	---	---
Med-tru_KAN2	---	---SPFQS	---	---	---	---
Vig-rad_KAN2	---	---TPFHS	---	---	---	---
Glyc_KAN2	---	---TPFHS	---	---	---	---
Vit-vin_KAN2	---	---SPFQSHH	---	---	---	---
Theo-cac_KAN2	---	---SPFQS	---	---	---	---
Pop-tri_hypothetical.protein	---	---SPYQS	---	---	---	---
Ric-com_KAN2	---	---TNI GHFQS	---	---	---	---
Ath_KAN4	---	---HHHQRR	SNMFQPQI	---	---	---
Ric-com_KAN4	---	---RNLNHHHHH	QPQI	---	---	---
Pop-tri_KAN4	---	---RNLNHHHHH	QI	---	---	---
Nel-nuc_KAN4	---	---PPMQLPRNL	HYLHQPQI	---	---	---
The-cac_KAN4	---	---RNLNHHQH	YQPQI	---	---	---
Vit-vin_KAN4	---	---RNLHNNHHN	HQPQI	---	---	---
Glycine_KAN4	---	---RSFNHHHHL	LQPHI	---	---	---
Sol-lyc_KAN4	---	---THFQYHHEH	YQPQI	---	---	---
Med-tru_KAN4	---	---RNFNQHFQP	HI	---	---	---
Vit-vin_KAN4	---	---RNLHNNHHN	HQPQI	---	---	---
Pop-tri_KAN4	---	---RNLNHLHHH	NPQI	---	---	---
Sol-tub_KAN4	---	---KNFQY	---H	HQHYQPQI	---	---
Pru-per_KAN4	---	---RNFSNHHFH	HPQI	---	---	---
Amb-tri_KAN4	---	---DSFNGDAVI	LGLGSHHH	---	---	L
Fra-vesca_KAN4	---	---RNFNHHHHH	HPQI	---	---	R
Mus-acu_KAN4	---	---HDLHHRDHH	HHHHHDQL	---	---	R
Glyc_KAN4	---	---	---	---	---	---
Glyc-KAN4	---	---LSRNNFSHH	LHNYQPHT	---	---	---
Cam-sat_KAN4	---	---HHQHHRH	SNMFQPQI	---	---	---
Bra-rapa_KAN4	---	---PYHHHQHRS	SNMFQPQI	---	---	---
Bra-nap_KAN4	---	---PYHHHQHRS	SNMFQPQI	---	---	---

Ath_KAN1	HHHGMIRSRF	LPKM	P	---	---	TKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Amb-tric_KAN1	ASSHAMRSRI	VSKL	P	---	---	TKRSMRAP	RMRWTSTLHA	RFVHAVELLG
Cam-sat_KAN1	HHHGMIRSRF	LPKM	P	---	---	TKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Bras-ole_KAN1-like	HHHGMIRSRF	LPKM	P	---	---	TKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Bra-nap_KAN1-like	HHHGMIRSRF	LPKM	P	---	---	TKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Vit-vin_KAN1	S-HGMMRSRF	IPKL	P	---	---	TKRSMRAP	RMRWTSTLHA	RFVHAVELLG
Pru-mum_KAN1-variantX1	SHHGIMRSRF	LPKL	P	---	---	TKRSMRAP	RMRWTSTLHA	RFVHAVELLG
The-cacao_KAN1-variantX1	S-NGLIRSRF	LPKL	P	---	---	TKRSMRAP	RMRWTSTLHA	RFVHAVELLG
Ric-com_KAN1-variantX1	S-HGLIRSRF	LPKL	P	---	---	TKRSMRAP	RMRWTSTLHA	RFVHAVELLG
Pop-eup_KAN1	SPHGLIRSRF	FPKL	P	---	---	TKRSMRAP	RMRWTSTLHA	RFVHAVELLG
Pru-per_KAN1-variantX1	SHHGIMRSRF	LPKL	P	---	---	TKRSMRAP	RMRWTSTLHA	RFVHAVELLG
Sol-tub_KAN1-like-variantX2	NSHSLMRSRF	LPKL	P	---	---	AKRSMRAP	RMRWTSTLHA	RFVHAVELLG
Nel-nuc_KAN1-variantX1	S-HAMIRSRF	MPKL	P	---	---	TKRSMRAP	RMRWTSTLHA	RFVHAVELLG
Vig-rad_KAN1	S-SGLMRSRF	LPKL	P	---	---	TKRSMRAP	RMRWTSTLHA	RFVHAVELLG
Ath_KAN2	--OTLNRARF	MPRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Amb-tri_KAN2	--NGGMRSRF	MTRFTA				ARRSMRAP	RMRWTSSLHA	RFVHAVELLG
Ara-tha_GARP-like_KAN2	--OTLNRARF	MPRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Cam-sat_KAN2	--OTLNRARF	MPRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Bra-nap_KAN2	--OTLNRARF	MPRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Bra-rapa_KAN2	--OTLNRARF	MPRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Cit-sin_KAN2	--OGLMRSRF	MSRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Vit-vin_KAN2	--OGLIRSRF	LSRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
The-cacao_KAN2	--OGLMRSRF	MSRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Med-tru_KAN2	--QALMRSRF	LSRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Glycine_KAN2	--QALMRSRF	LSRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Vig-rad_KAN2	--QALMRSRF	LSRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Vig-ang_KAN2	--QALMRSRF	LSRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Vit-vin_KAN2-variantX4	--OGLIRSRF	LSRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Pop-trichocarpa	--QGSMSRF	MSRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Ath_KAN3	-----	-PRF	T	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Bra-napus_KAN3	--SYNLHHRH	HRQAQPOAQR				LTAKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Bra-nap_KAN3	--SYNLHHRH	HRQVQPOAQR				LTAKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Bra-nap_KAN3	--SYNLHHRH	HRQVQPOAQR				LTAKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Cam-sat_KAN3	-----	-PRF	T	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Raph-sat_KAN3	--SYNLHHRP	HRQAQP	-QR			LTAKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Vig-ang_KAN2	--QALMRSRF	LSRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Med-tru_KAN2	--QALMRSRF	LSRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Vig-rad_KAN2	--QALMRSRF	LSRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Glyc_KAN2	--QALMRSRF	LSRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Vit-vin_KAN2	--OGLIRSRF	LSRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Theo-cac_KAN2	--OGLMRSRF	MSRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Pop-tri_hypothetical.protein	--QGSMSRF	MSRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Ric-com_KAN2	--OGLMRSRL	MSRF	P	---	---	AKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Ath_KAN4	--YGRDFKRS	SSSMVG				LKRSIRAP	RMRWTSSLHA	RFVHAVELLG
Ric-com_KAN4	--YGRDFKRN	GRMISG				VKRSIRAP	RMRWTSSLHA	RFVHAVELLG
Pop-tri_KAN4	--YGRDFKRS	ARMING				VKRSVRAP	RMRWTSSLHA	RFVHAVELLG
Nel-nuc_KAN4	--YGRDFKRN	SRMING				GKRSIRAP	RMRWTSSLHA	RFVHAVELLG
The-cac_KAN4	--YSRDFKRN	ARMING				VKRSIRAP	RMRWTSSLHA	RFVHAVELLG
Vit-vin_KAN4	--YGRDFKRN	SRMMNG				SKRSIRAP	RMRWTSSLHA	RFVHAVELLG
Glycine_KAN4	--YGRDFKRS	ARVVNG				VKRSVRAP	RMRWTSSLHA	RFVHAVELLG
Sol-lyc_KAN4	--YGRDFKRS	SRLISG				VKRSVRAP	RMRWTSSLHA	RFVHAVELLG
Med-tru_KAN4	--YGRDFKRN	TRVVNG				VKRSVRAP	RMRWTSSLHA	RFVHAVELLG
Vit-vin_KAN4	--YGRDFKRN	SRMMNG				SKRSIRAP	RMRWTSSLHA	RFVHAVELLG
Pop-tri_KAN4	--YGGDFKRS	ARMISG				VRRSKRAP	RMRWTSSLHA	RFVHAVELLG
Sol-tub_KAN4	--YGRDFKRS	SRLISG				VKRSVRAP	RMRWTSSLHA	RFVHAVELLG
Pru-per_KAN4	--YGRDFKRN	ARTVGN				VKRSIRAP	RMRWTSSLHA	RFVHAVELLG
Amb-tri_KAN4	PALGRDFKRN	SRIMSCG				SKRSMRAP	RMRWTSSLHA	RFVHAVELLG
Fra-vesca_KAN4	--YGRDFKRS	ARTVGN				VKRSVRAP	RMRWTSSLHA	RFVHAVELLG
Mus-acu_KAN4	HPQTYGFKRN	SRSAGQ				GKRSVRAP	RMRWTSSLHA	RFVHAVELLG
Glyc_KAN4	-----	-----				-----	RMRWTSSLHA	RFVHAVELLG
Glyc-KAN4	--NTLDFKRN	ARVIHG				VKRSIRAP	RMRWTSSLHA	RFVHAVELLG
Cam-sat_KAN4	--YGRDFKRS	SSSMVG				LKRSIRAP	RMRWTSSLHA	RFVHAVELLG
Bra-rapa_KAN4	--YGRDFKRT	SSSVVS				LKRSIRAP	RMRWTSSLHA	RFVHAVELLG
Bra-nap_KAN4	--YGRDFKRT	SSSVVS				LKRSIRAP	RMRWTSSLHA	RFVHAVELLG

Ath_KAN1	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTN-K	P--AAS----
Amb-tric_KAN1	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-K	P--AASSGQ-
Cam-sat_KAN1	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTN-K	P--AAS----
Bras-ole_KAN1-like	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTN-K	P--AAS----
Bra-nap_KAN1-like	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTN-K	P--AAS----
Vit-vin_KAN1	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-K	P--AASSGQ-
Pru-mum_KAN1-variantX1	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-K	P--AAS----
The-cacao_KAN1-variantX1	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-K	P--AASSGQ-
Ric-com_KAN1-variantX1	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-K	P--AASSGQ-
Pop-eup_KAN1	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-K	P--ASS----
Pru-per_KAN1-variantX1	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-K	P--AAS----
Sol-tub_KAN1-like-variantX2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-K	P--AVS----
Nel-nuc_KAN1-variantX1	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-K	P--AASSGQ-
Vig-rad_KAN1	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-K	P--AASSGL-
Ath_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-K	A--AASSGQ-
Amb-tri_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-R	A--AGSSGE-
Ara-tha_GARP-like_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-K	A--AASSGQ-
Cam-sat_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-K	A--AASSGQ-
Bra-nap_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-K	A--AASSGQ-
Bra-rapa_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-K	A--AASSGQ-
Cit-sin_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-R	A--AASSGQ-
Vit-vin_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-R	A--AASSGQ-
The-cacao_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-R	A--AASSGQ-
Med-tru_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-R	V--GASSGQ-
Glycine_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-R	A--AASSGQ-
Vig-rad_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-R	A--AASSGQ-
Vig-ang_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-R	A--AASSGQ-
Vit-vin_KAN2-variantX4	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-R	A--AASSGQ-
Pop-trichocarpa	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-R	A--AAPAL-
Ath_KAN3	GHERATPKSV	LELMDVQDLT	LAHVKSHLQM	YRTIKSTE-K	P--TTSSGQ-
Bra-napus_KAN3	GHERATPKSV	LELMDVQDLT	LAHVKSHLQM	YRTIKSTE-K	P--TTS----
Bra-nap_KAN3	GHERATPKSV	LELMDVQDLT	LAHVKSHLQM	YRTIKSTE-K	P--TTS----
Bra-nap_KAN3	GHERATPKSV	LELMDVQDLT	LAHVKSHLQM	YRTIKSTE-K	P--TTS----
Cam-sat_KAN3	GHERATPKSV	LELMDVQDLT	LAHVKSHLQM	YRTIKSTE-K	P--T-----
Raph-sat_KAN3	GHERATPKSV	LELMDVQDLT	LAHVKSHLQM	YRTIKSTE-K	P--TTS----
Vig-ang_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-R	A--AASSGQ-
Med-tru_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-R	V--GASSGQ-
Vig-rad_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-R	A--AASSGQ-
Glyc_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-R	A--AASSGQ-
Vit-vin_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-R	A--AASSGQ-
Theo-cac_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-R	A--AASSGQ-
Pop-tri_hypothetical.protein	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-R	A--AAPAL-
Ric-com_KAN2	GHERATPKSV	LELMDVKDLT	LAHVKSHLQM	YRTVKTTD-R	A--AASSGQ-
Ath_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKCTD-K	G--SPGEGKV
Ric-com_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKSTD-K	G--TGQGO-
Pop-tri_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKSTD-R	G-----
Nel-nuc_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKSTD-K	G--AGQGO-
The-cac_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKSTD-K	G--SGQGO-
Vit-vin_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKSTD-K	G--TGQGO-
Glycine_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKSTD-K	GISTAGHGQ-
Sol-lyc_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKSTD-K	S--AKGQGE-
Med-tru_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKTTD-K	S--GAGHGI-
Vit-vin_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKSTD-K	G--TGQGO-
Pop-tri_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKSTD-K	G--SGQGO-
Sol-tub_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKSTD-K	A--TAKGQGE-
Pru-per_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKSTD-K	G--TGHEGO-
Amb-tri_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKSTD-K	G--AGQGP-
Fra-vesca_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKSTD-K	G--TGHEGQL
Mus-acu_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKSTD-R	G--AAGQGO-
Glyc_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKSTD-K	GITAAGHGQ-
Glyc-KAN4	GHERATPKSV	LELMNVKDLT	LSHVKSHLQM	YRTVKSSD-K	G--SAGYGO-
Cam-sat_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKCTD-K	G--SSGEGKV
Bra-rapa_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKCTD-K	R--SSGERKV
Bra-nap_KAN4	GHERATPKSV	LELMNVKDLT	LAHVKSHLQM	YRTVKCTD-K	R--SSGERKV

Ath_KAN1	---	SDG	---	SGE	---	EE	MGING	NEVH	HQSSTDQRAQ	---	---	SD	
Amb-tric_KAN1	---	SDG	FD	S	GS	AAGE	DD	FVAGNLAGSD	RNLGAFGF	---	---	QG	
Cam-sat_KAN1	---	SDG	---	SGE	---	EE	MGING	NEVH	HQSSTDQRAQ	---	---	SD	
Bras-ole_KAN1-like	---	SDG	---	SGE	---	EE	MGING	NDVH	HQSSTDQKAQ	---	---	SD	
Bra-nap_KAN1-like	---	SDG	---	SGE	---	EE	MGING	NDVH	HQSSTDQKAQ	---	---	SD	
Vit-vin_KAN1	---	SDG	---	SGE	---	ED	I	SPM	GN	---	ASDCGLCR	FTDORGA	SE
Pru-mum_KAN1-variantX1	---	SDG	---	SGE	---	DD	ILSPI	GSAT	DLHGLRSPHQ	FPEORGP	---	SD	
The-cacao_KAN1-variantX1	---	SDG	---	SGE	---	ED	ISTAVS	GSER	GLRGLIDQ	---	---	IG	
Ric-com_KAN1-variantX1	---	SDG	---	SGE	---	ED	I	STM	GS	G	NDRGSGGLRR	FSDORGA	SD
Pop-eup_KAN1	---	SDG	---	SGE	---	ED	M	SPI	GSYG	TANERGLL	---	ORGVQSD	
Pru-per_KAN1-variantX1	---	SDG	---	SGE	---	DD	ILSPI	GSAT	DLHGLRSPHQ	FPEORGP	---	SD	
Sol-tub_KAN1-like-variantX2	---	SDG	---	SGE	---	DD	L	TTI	GSTG	G	GDRAGLIGQ	FMDORGG	SD
Nel-nuc_KAN1-variantX1	---	SDG	---	SGE	---	ED	F	SPA	AT	---	NNDLNLR	FIDORGS	TD
Vig-rad_KAN1	---	SDG	---	SGE	---	DD	I	SPM	GSSG	GMRQFS	DORS	L	SD
Ath_KAN2	---	SDVYE	N	GSSGD	NNSD	DD	WMFDM	NRKS	RDSEEL	---	TN	P	LE
Amb-tri_KAN2	---	IDIFG	N	GTPGEI	SNEI	---	LLENM	---	---	---	---	---	TQ
Ara-tha_GARP-like_KAN2	---	SDVYE	N	GSSGD	NNSD	DD	WMFDM	NRKS	RDSEEL	---	TN	P	LE
Cam-sat_KAN2	---	SDVYE	N	GSSGD	NNSD	DD	WMFDM	NRKS	RDSEEL	---	TN	P	LE
Bra-nap_KAN2	---	SDVYE	N	GSSGD	NNSD	DD	WMFDM	NRKS	RDTDEL	---	TN	P	LE
Bra-rapa_KAN2	---	SDVYE	N	GSSGD	NNSD	DD	WMFDM	NRKS	RDTDEL	---	TN	P	LE
Cit-sin_KAN2	---	SDAFE	N	GSSGD	TSED	---	IMFGI	QHPR	R	PETSSI	IQ	---	QG
Vit-vin_KAN2	---	SDVYE	N	GSSGD	TSED	---	VMFDI	QNPR	K	SELS	---	IQ	QG
The-cacao_KAN2	---	SDAFE	N	GSSGD	TSED	---	LMFDI	QNPR	R	SEIS	---	VQ	QG
Med-tru_KAN2	---	SDVYD	N	GSSGD	NSDD	---	IMFDI	NSSR	R	SSDLS	---	IK	QG
Glycine_KAN2	---	SDVYD	N	GSSGD	TSDD	---	LMFDI	KSSR	R	SDLS	---	VK	QG
Vig-rad_KAN2	---	SDVYD	N	GSSGD	TSDD	---	LMFDI	KSSR	R	SDVS	---	IK	QG
Vig-ang_KAN2	---	SDVYD	N	GSSGD	TSDD	---	LMFDI	KSSR	R	SDVS	---	IK	QG
Vit-vin_KAN2-variantX4	---	SDVYE	N	GSSGD	TSED	---	VMFDI	QNPR	K	SELS	---	IQ	QG
Pop-trichocarpa	---	SDVFD	N	GSSGD	TSED	---	LVFDI	ENPR	R	SEMS	---	MQ	QG
Ath_KAN3	---	SDC	---	ENG	S	---	---	QV	NSER	EARNL	---	---	---
Bra-napus_KAN3	---	SDIGQSD	---	TCENE	---	---	LKV	NSER	QARDL	---	---	---	---
Bra-nap_KAN3	---	SDIGQSD	---	TCENE	---	---	LKV	NSER	HARDL	---	---	---	---
Bra-nap_KAN3	---	SDIGQSD	---	TCENE	---	---	LKV	NSER	HARDL	---	---	---	---
Cam-sat_KAN3	---	---	---	---	---	---	---	---	---	---	---	---	---
Raph-sat_KAN3	---	SDIEQSD	---	TFEKE	---	---	LKV	NSER	QAKDL	---	---	---	---
Vig-ang_KAN2	---	SDVYD	N	GSSGD	TSDD	---	LMFDI	KSSR	R	SDVS	---	IK	QG
Med-tru_KAN2	---	SDVYD	N	GSSGD	NSDD	---	IMFDI	NSSR	R	SSDLS	---	IK	QG
Vig-rad_KAN2	---	SDVYD	N	GSSGD	TSDD	---	LMFDI	KSSR	R	SDVS	---	IK	QG
Glyc_KAN2	---	SDVYD	N	GSSGD	TSDD	---	LMFDI	KSSR	R	SDLS	---	VK	QG
Vit-vin_KAN2	---	SDVYE	N	GSSGD	TSED	---	VMFDI	QNPR	K	SELS	---	IQ	QG
Theo-cac_KAN2	---	SDAFE	N	GSSGD	TSED	---	LMFDI	QNPR	R	SEIS	---	VQ	QG
Pop-tri_hypothetical.protein	---	SDVFD	N	GSSGD	TSED	---	LVFDI	ENPR	R	SEMS	---	MQ	QG
Ric-com_KAN2	---	SDIFD	N	GSSGD	TSED	---	LMFEI	QNSR	R	SDIS	---	MQ	QG
Ath_KAN4	---	EKEAEQRIED	---	NNNNE	---	EAD	EGTDT	NSPN	SSSVQK	---	---	---	TQ
Ric-com_KAN4	---	TDMGL	K	QRAGI	---	VD	VDAGV	SAGK	ADANPCCSLN	PPPPP	---	---	TP
Pop-tri_KAN4	---	PGKLYC	---	LSSGKADANN	---	---	LPQPL	NNPP	SPPPP	---	---	---	---
Nel-nuc_KAN4	---	TELGL	N	QRSGV	---	IE	VDAGL	SSCEK	TDPNPYSLNP	P	---	---	LP
The-cac_KAN4	---	TEMSL	N	QRTGI	---	VD	LDGRL	SCGK	ADTNPSYSLK	---	---	---	PS
Vit-vin_KAN4	---	TDMGL	N	QRTGI	---	---	---	QV	ELGG	LSCDKADATP	SF	---	SS
Glycine_KAN4	---	TDIGL	N	PRLGI	---	NV	HLHAP	SPIC	DTPNLPDPIQ	N	---	---	SQ
Sol-lyc_KAN4	---	INIFL	N	QNNGI	---	---	---	NN	GEYE	KSCEEIDALS	QPSTISQMA	---	---
Med-tru_KAN4	---	L	QTOGI	---	---	---	NIVPL	HGAN	SSADERPNLP	Q	---	---	---
Vit-vin_KAN4	---	TDMGL	N	QRTGI	GOVEL	---	GGLSC	DKAD	ATPSFS	---	---	---	SN
Pop-tri_KAN4	---	TDMGL	N	QRARI	---	---	---	---	---	---	---	---	---
Sol_tub_KAN4	---	IKIFL	N	QNNGI	---	---	---	---	---	---	---	---	---
Pru-per_KAN4	---	TDMGL	N	QKPGI	---	---	---	---	---	---	---	---	---
Amb-tri_KAN4	---	TEMGL	R	QRSRV	---	---	---	---	---	---	---	---	---
Fra-vesca_KAN4	---	MDMGL	D	QNPGN	---	NN	VQVNG	SALP	CDSEKA	---	---	---	ID
Mus-acu_KAN4	---	AEMCF	N	QRRGM	---	EE	VEGGL	SCDK	AGNEITPPCS	S	---	---	LS
Glyc_KAN4	---	TGIGLMN	---	PRPGI	---	NV	HLHAL	SPIC	DTPNLPDPIQ	S	---	---	SH
Glyc_KAN4	---	TGIGL	S	QKPGI	---	VD	LHGVL	ACER	PDLPOPLLK	---	---	---	FQ
Cam-sat_KAN4	---	EKEAEORMED	---	NNNNE	---	EAD	EGTDT	NSPN	SSSVQK	---	---	---	TQ
Bra-rapa_KAN4	---	EKEAEQKTED	---	NNNNN	---	ED	ADADP	ISPN	SSSVQK	---	---	---	TQ
Bra-nap_KAN4	---	EKEAEQKTED	---	NNNNN	---	ED	ADADP	ISPN	SSSVQK	---	---	---	TQ

Ath_KAN1	DT	SLHQET	DISS	---	TQ	PRWSNSS	-R	ETWPLSNCS	SDIDTMRIS
Amb-tric_KAN1	EVDY	SSTNNS	HPPA	---	P	SLWSNSSS	-R	GPWLHTTSS	-DAESIRSPA
Cam-sat_KAN1	DT	SLHQEI	DISS	---	TQ	PRWSNSS	-R	ETWPLSNCS	SDMDTLIRTS
Bras-ole_KAN1-like	DT	SPHQEI	DFPS	---	TQ	PRWSNSS	-R	ETWPLSNYS	SDVDTMIRTS
Bra-nap_KAN1-like	DT	SPHQEI	DFPS	---	TQ	PRWSNSS	-R	ETWPLSNYS	SDVDTMIRTS
Vit-vin_KAN1	GS	LQOEI	DYPS	---	T	NLWSNSSSSR		EAWLQONSS	-EMDGLK-TA
Pru-mum_KAN1-variantX1	RS	SVQPD	DYTS	---	ST	TLWSNSSSSR		EAFPHSSH	-DMDGLT-PV
The-cacao_KAN1-variantX1	TS	DGSLQEL	DYPC	-	NPTT	TLWSNSS	-R	EAWLHANSN	-DIDGVRGPL
Ric-com_KAN1-variantX1	GS	VQOEM	SYPS	---	TAT	TLWSNSSSSR		EAWPOTNSN	-DPDGIR-EA
Pop-eup_KAN1	GS	PVQDM	DYPS	ST	TTT	TLWSNSSSSR		EAWPOTNSN	-EMDGHR-QG
Pru-per_KAN1-variantX1	RS	SVQPD	DYTS	---	ST	TLWSNSSSSR		EAFPHSSH	-DMDGLT-PV
Sol-tub_KAN1-like-variantX2	GS	LQPEP	DYPS	---	TATN	TLWSNSSSSR		EGWLQANSN	-DTNVLMRSH
Nel-nuc_KAN1-variantX1	GS	VQQDT	DYPS	---	TA	TLWSNSSSSR		GSWLQTNSS	-DMDGHR-SE
Vig-rad_KAN1	RP	VQQDM	DYSS	---	AN	TLWSNSSSSR		ELWQONSSN	-DINGFR-PP
Ath_KAN2	KS	---	---	---	NG	---	---	LWTNSS	-G
Amb-tri_KAN2	RP	PLQHGL	DYCN	---	---	MWSNSSS	-R	RNWLQAKSR	-DSMSMS-PS
Ara-tha_GARP-like_KAN2	KS	---	---	---	NG	---	---	LWTNSS	-G
Cam-sat_KAN2	KG	---	---	---	NG	---	---	LWTNSS	-G
Bra-nap_KAN2	KS	---	---	---	NG	---	---	RWTNSS	-G
Bra-rapa_KAN2	KS	---	---	---	NG	---	---	RWTNSS	-G
Cit-sin_KAN2	RA	---	---	---	SNG	---	---	LWSNSS	-R
Vit-vin_KAN2	RP	NVHQEK	DYHG	---	---	LWSNSS	-R	EAWLHGKQR	-DSGGNT-P
The-cacao_KAN2	RP	SSNAHQDK	EYHG	---	---	LWSNSS	-R	EAWLHGKPK	-DSARNL-P
Med-tru_KAN2	RS	SVNQDK	ECYG	---	---	LWSNSS	-R	EAWLHGKPKV	-DSIGNM-Q
Glycine_KAN2	RS	SVNQDK	EYHG	---	---	LWGNSS	-R	EAWLHGKTKT	-DSVGNV-PF
Vig-rad_KAN2	RS	SVNQDK	DYHG	---	---	LWGNSS	-R	EAWLHGKTRT	-DSVGNV-P
Vig-ang_KAN2	RS	SVNQDK	DCHG	---	---	LWGNSS	-R	EAWLHGKTKT	-DSVGNV-P
Vit-vin_KAN2-variantX4	RP	NVHQEK	DYHG	---	---	LWSNSS	-R	EAWLHGKQR	-DSGGNTPTL
Pop-trichocarpa	RP	NAHQDK	DYQA	---	---	LWSNSS	-R	EAWLHGKLLK	-DSDGNL-P
Ath_KAN3	---	---	---	---	TG	---	---	LWNNSS	-S
Bra-napus_KAN3	---	---	---	---	OG	---	---	LWTNSS	-S
Bra-nap_KAN3	---	---	---	---	OG	---	---	LWSNSS	-S
Bra-nap_KAN3	---	---	---	---	---	---	---	LWSNSS	-S
Cam-sat_KAN3	---	---	---	---	---	---	---	---	---
Raph-sat_KAN3	---	---	---	---	OG	---	---	LWNNSS	-S
Vig-ang_KAN2	RS	SVNQDK	DCHG	---	---	LWGNSS	-R	EAWLHGKTKT	-DSVGNV-P
Med-tru_KAN2	RS	SVNQDK	ECYG	---	---	LWSNSS	-R	EAWLHGKPKV	-DSIGNM-Q
Vig-rad_KAN2	RS	SVNQDK	DYHG	---	---	LWGNSS	-R	EAWLHGKTRT	-DSVGNV-P
Glyc_KAN2	RS	SVNQDK	EYHG	---	---	LWGNSS	-R	EAWLHGKTKT	-DSVGNV-PF
Vit-vin_KAN2	RP	NVHQEK	DYHG	---	---	LWSNSS	-R	EAWLHGKQR	-DSGGNT-P
Theo-cac_KAN2	RP	SSNAHQDK	EYHG	---	---	LWSNSS	-R	EAWLHGKPK	-DSARNL-P
Pop-tri_hypothetical.protein	RP	NAHQDK	DYQA	---	---	LWSNSS	-R	EAWLHGKLLK	-DSDGNL-P
Ric-com_KAN2	RP	NGHHDK	DYQG	---	---	LWSNSS	-R	EAWLHVSKK	-DSCGNL-T
Ath_KAN4	RA	---	---	---	---	SWSST	-K	EVRSISTQA	YSHLGT-HH
Ric-com_KAN4	TTPI	PSVQKT	QIRG	---	---	SWSSMETR		DINIS	-NSEALIYSH
Pop-tri_KAN4	---	---	---	---	---	PLSSTQ	-K	NQRLGDEK	---
Nel-nuc_KAN4	KS	---	---	---	PRG	---	---	SWSSME	-T
The-cac_KAN4	SPSSQPTPQR	TQSG	---	---	---	SWLSST	-K	TNLSLSSH	-GNGLTFKP
Vit-vin_KAN4	NTPOPSTPQK	ISRS	---	---	---	SWLSM	---	ETNDEGRLS	-HENGLKYSH
Glycine_KAN4	RT	---	---	---	---	PWQSSI	---	ETKTDNSRQE	EPEIGLTYSH
Sol-lyc_KAN4	HMRDPSSFMP	DQTN	---	---	---	VWSHSN	-R	ERTFAN	---
Med-tru_KAN4	---	---	---	---	---	PLQNSL	-R	TSWQPSIETN	TNNTTEKSEI
Vit-vin_KAN4	TPQPSTPQKI	SRLG	---	---	IR	SSWSLSM	---	ETNDEGRLS	-HENGLKYSH
Pop-tri_KAN4	---	---	---	---	---	---	---	---	---
Sol-tub_KAN4	KS	---	---	---	---	---	---	---	---
Pru-per_KAN4	RG	---	---	---	---	SWPSSSETN		GSCNLSPGN	-ALTYSHSPQ
Amb-tri_KAN4	FSSENVPSHV	VSRG	---	---	---	SWLDSLTK	---	NESIYSQAE	NQYTNLEVEV
Fra-vesca_KAN4	SPSTLLLQNP	SIRG	---	---	---	SWHSTR	---	KTNGSCK	-PSPGDFLTC
Mus-acu_KAN4	TPTPPTPQSK	SPRK	---	---	---	LNPSGEG	---	CAWNIARLLN	NDNKVLL
Glyc_KAN4	RT	---	---	---	---	PWQSSI	---	ETKTDNSRQE	EPEIGLTYSH
Glyc_KAN4	RA	---	---	---	---	SWQSSK	-E	TNSINYTON	-PIINSMYSH
Cam-sat_KAN4	RA	---	---	---	---	SWSSTK	-G	VSMSISKHAE	-POLGTT-HH
Bra-rapa_KAN4	RS	---	---	---	---	PWSSTK	---	---	-GV
Bra-nap_KAN4	RS	---	---	---	---	PWSSTK	---	---	-GV

Ath_KAN1	STS-MISHYQ	RSS---	IQNQ	E-ORSNDQAK	RCGNLSC-EN	PSLEFTLGRP	
Amb-tric_KAN1	LLL-QEKDGH	HIE---	---	---	KGNNHDL-KN	PSLEFTLGRP	
Cam-sat_KAN1	STS-MISHHQ	RSS---	LQNQ	E-ORSNDQAK	RCGDLS-CNN	PSLEFTLGRP	
Bras-ole_KAN1-like	STS-VISHHQ	RSI---	LQNQ	EQQRSSDQTK	RCGDLS-CNN	PSLEFTLGRP	
Bra-nap_KAN1-like	STS-VISHHQ	RSI---	LQNQ	EQQRSSDQTK	RCGDLS-CNN	PSLEFTLGRP	
Vit-vin_KAN1	SFP-SQQRS-	GHQ---	IEEC	NST-LLKDYL	GP-NLDC-KN	PSLEFTLGRP	
Pru-mum_KAN1-variantX1	SSQ-LQKIS-	GHQ---	IQEC	DSTTQLKSYL	GS-NFET-RN	PSLEFTLGRP	
The-cacao_KAN1-variantX1	SFQSNRTEES	CDS---	---	---	-TPLNC-KN	PSLEFTLGRP	
Ric-com_KAN1-variantX1	TVQ-SQQRS-	GHP---	VQEC	NSN-PMKGYL	GS-NLDC-KN	PSLEFTLGRP	
Pop-eup_KAN1	TFQ-SQQRS-	GQL---	MEES	DST-RPKSYL	GS-SLAC-KN	PSLEFTLGRP	
Pru-per_KAN1-variantX1	SSQ-LQKIS-	GHQ---	IQEC	ESTTQLKSYL	GS-NFET-RN	PSLEFTLGRP	
Sol-tub_KAN1-like-variantX2	SFP-SQQRS-	GHQ---	IEEC	NSNRQKSYNI	GS-NLDHKN	PSLEFTLGRP	
Nel-nuc_KAN1-variantX1	TFP-SQQRS-	GHQ---	IEES	DLT-RTKSFL	GS-HLEL-KN	PSLEFTLGRP	
Vig-rad_KAN1	IFQ-SQQISG	GHQ---	IQDC	DSSQLKNSLS	GS-GNLEK-KN	PSLEFTLGRP	
Ath_KAN2	PSE-KELDQK	CSS---	YERI	SSEEMSSSSI	SGTSPFK-PN	--LEFTLGRS	
Amb-tri_KAN2	SEVKGGLEDT	SDE---	LFEI	SSSDMNQ---	---	KN	PNLEFTLGRP
Ara-tha_GARP-like_KAN2	PSE-KELDQK	CSS---	YERI	SSEEMSSSSI	SGTSPFK-PN	--LEFTLGRS	
Cam-sat_KAN2	PS---	---	---	---	---	---	EFVL*--
Bra-nap_KAN2	PSE-NEIDGK	SSS---	YERM	SSEDMSSSNI	SGTSPFK-PN	--LEFTLG*--	
Bra-rapa_KAN2	PSE-NEIDGK	SSS---	YERM	SSEDMSSSNI	SGTSPFK-PN	--LEFTLG*--	
Cit-sin_KAN2	SLE--EVDPK	CMS---	YEGI	--SDVSSPNI	SATSPKK-PN	--LEFTLGRP	
Vit-vin_KAN2	TLE-EDMDPK	CLS---	YERI	--SDVSSSNI	SGTSPKK-PN	--LEFTLGRS	
The-cacao_KAN2	SLE-KDMDPK	CLS---	YERI	--SDVSSSNI	SGTSPKK-PN	--LEFTLGRP	
Med-tru_KAN2	SLE-KEMDPK	CLS---	YERI	-SDGSSSTNL	SGSSPKK-PN	LDLEFTLQGP	
Glycine_KAN2	SLE-KEMDPK	CLS---	YERI	-SDGSSSNI	SGSSPKK-PN	LDLEFSLGQP	
Vig-rad_KAN2	SLE-KEMDPK	CVS---	YERI	-SDGSSSNI	SGSSPKK-AN	LDLEFSLGQP	
Vig-ang_KAN2	SLE-KEMDPK	CVS---	YERI	-SDGSSSNI	SGSSPKK-AN	LDLEFSLGQP	
Vit-vin_KAN2-variantX4	ERDGVKRWHH	TIM---	---	---	---	PN	LHHLFQIS*--
Pop-trichocarpa	PLE-KGMDPK	CLS---	YEKI	--SDVSSSTV	SGTSPKK-PN	--LEFTLGRP	
Ath_KAN3	SNENEWKRR	CPS---	NERL	SSD---SSSL	TGTRPET-ET	PNLDFTLATP	
Bra-napus_KAN3	---NKNVDQR	CPS---	YERL	SSD---SSSL	TGTRPEI-ET	PNLEFTLAIP	
Bra-nap_KAN3	---NKNVDQR	CPS---	YERL	SSD---SSSL	TGTRPEI-ET	PNLEFTLAIP	
Bra-nap_KAN3	---NKNVDQR	CPS---	YERL	SSD---SSSL	TGTRPEI-ET	PNLEFTLAIP	
Cam-sat_KAN3	---	---	---	---	---	XN	YYISLFLSNP
Raph-sat_KAN3	---NKNVDQR	CPS---	YERL	SSD---SSSL	TGTRPEI-ET	PNLEFTLAIP	
Vig-ang_KAN2	SLE-KEMDPK	CVS---	YERI	-SDGSSSNI	SGSSPKK-AN	LDLEFSLGQP	
Med-tru_KAN2	SLE-KEMDPK	CLS---	YERI	-SDGSSSTNL	SGSSPKK-PN	LDLEFTLQGP	
Vig-rad_KAN2	SLE-KEMDPK	CVS---	YERI	-SDGSSSNI	SGSSPKK-AN	LDLEFSLGQP	
Glyc_KAN2	SLE-KEMDPK	CLS---	YERI	-SDGSSSNI	SGSSPKK-PN	LDLEFSLGQP	
Vit-vin_KAN2	TLE-EDMDPK	CLS---	YERI	--SDVSSSNI	SGTSPKK-PN	--LEFTLGRS	
Theo-cac_KAN2	SLE-KDMDPK	CLS---	YERI	--SDVSSSNI	SGTSPKK-PN	--LEFTLGRP	
Pop-tri_hypothetical.protein	PLEKKGMDPK	CLS---	YEKI	--SDVSSSTV	SGTSPKK-PN	--LEFTLGRP	
Ric-com_KAN2	SLE---	---	---	---	---	---	VP
Ath_KAN4	TKDNEEKEDT	N---	---	---	---	IH	LNLDFTLGRP
Ric-com_KAN4	PSAHDTKENG	PMADLHMSDR	VKESLDSSSL	SSSD---	ML	VNLEFTLGRP	
Pop-tri_KAN4	---NISSLE	ALTYVNVEAH	DHSKRLDSSS	SSSD---	ML	LNLEFTLGRP	
Nel-nuc_KAN4	LKSTDLTNEK	NKMDGADFYV	SHNESERLYL	SPLASSH-	VF	PNLEFTLGRQ	
The-cac_KAN4	NHVKVDGDKA	VLH---	VSDR	MKERLDSSSL	SPSD---	ML	LNLEFTLGRP
Vit-vin_KAN4	LMANDTKMEG	HKV---	ALHV	AEGPKERVDS	SALSPSD-	ML	LNLEFTLGRP
Glycine_KAN4	LKGNNNNET	MVD---	GHN	NSGGLDSSPL	SRSE-	AM	LDLEFTLGRP
Sol-lyc_KAN4	---	---	YPHI	YTNMDGIETA	NNSSND-	TM	LDLEFTLGRP
Med-tru_KAN4	GLTYSQLKEN	DTM---	VKRL	DSA---	QL	IDLEFTLGRP	
Vit-vin_KAN4	LMANDTKMEG	HKVALHVAEG	PKERVDSSAL	SPSD---	ML	LNLEFTLGRP	
Pop-tri_KAN4	---	---	---	---	---	---	LEVDA--
Sol-tub_KAN4	---	---	FEEI	---	---	DA	LSQPSTISQN
Pru-per_KAN4	SNGTKVEEEE	SGRHVCDDGV	GMKERGTTLA	CGLSASDMY	---	---	LNLEFTLGRP
Amb-tri_KAN4	DKYKEASDSY	HEE---	AEKW	HSSSYPPSQ	TSSRLLS-	KL	PNLEFTLGRE
Fra-vesca_KAN4	SDSPSSIGTK	VDE---	EDSG	SGRQLDCSSL	SSSDH---	MY	LNLEFTLGRP
Mus-acu_KAN4	---	---	MEDQ	PQELRPTLVP	PSMPP---	RM	PNLEITLGRQ
Glyc_KAN4	LKGNNNNET	TVD---	GHN	NYGGLDSTPL	SRSEE---	AM	LDLEFTLGRP
Glyc_KAN4	LKG-NQTMVG	GQHYGGLSNC	MKEKLDSCSL	SRSD---	MT	LDLEFTLGRP	
Cam-sat_KAN4	TKENKEKAT	N---	---	---	---	VY	LNLEFTLGRP
Bra-rapa_KAN4	SMSISQADPH	ME---	INRI	TKDDVEK---	---	DH	LSLEFTLGRP
Bra-nap_KAN4	SMSISQADPH	ME---	INRI	TKDDVEK---	---	DH	LSLEFTLGRP

Ath_KAN1	--DWHEK*--	----	----	----	----
Amb-tric_KAN1	--GWHGKDRD*	----	----	----	----
Cam-sat_KAN1	--DWHDK*--	----	----	----	----
Bras-ole_KAN1-like	--DWHEK*--	----	----	----	----
Bra-nap_KAN1-like	--DWHEK*--	----	----	----	----
Vit-vin_KAN1	--DWHGKEHD*	----	----	----	----
Pru-mum_KAN1-variantX1	--DWNKGPHD*	----	----	----	----
The-cacao_KAN1-variantX1	--DWHGTQHK*	HT*	----	----	----
Ric-com_KAN1-variantX1	--DWQGNH*	----	----	----	----
Pop-eup_KAN1	--DWPGEHC*	----	----	----	----
Pru-per_KAN1-variantX1	--DWNKGPHD*	----	----	----	----
Sol-tub_KAN1-like-variantX2	--DWIEKDHE*	----	----	----	----
Nel-nuc_KAN1-variantX1	--DWCQEH*	----	----	----	----
Vig-rad_KAN1	--DWNKGQA*	----	----	----	----
Ath_KAN2	--H*	----	----	----	----
Amb-tri_KAN2	--D*	----	----	----	----
Ara-tha_GARP-like_KAN2	--H*	----	----	----	----
Cam-sat_KAN2	----	----	----	----	----
Bra-nap_KAN2	----	----	----	----	----
Bra-rapa_KAN2	----	----	----	----	----
Cit-sin_KAN2	--H*	----	----	----	----
Vit-vin_KAN2	--H*	----	----	----	----
The-cacao_KAN2	--H*	----	----	----	----
Med-tru_KAN2	--L*	----	----	----	----
Glycine_KAN2	--L*	----	----	----	----
Vig-rad_KAN2	--L*	----	----	----	----
Vig-ang_KAN2	--L*	----	----	----	----
Vit-vin_KAN2-variantX4	----	----	----	----	----
Pop-trichocarpa	--H*	----	----	----	----
Ath_KAN3	--NLSP*	----	----	----	----
Bra-napus_KAN3	--NLPP*	----	----	----	----
Bra-nap_KAN3	--NLPP*FTI	YTIKTKKNC*	NIQI*TLKLC	LRYEKNMK*C	LLLRLDICSF
Bra-nap_KAN3	--NLPP*FTI	YTIKTKKNC*	NIQI*TLKLC	LRYEKNMK*C	LLLRLDICSF
Cam-sat_KAN3	--KIST*	----	----	----	----
Raph-sat_KAN3	--NLPP*	----	----	----	----
Vig-ang_KAN2	--L*QGS DPS	EYVLLIN*E	TERGRELERE	RGSR*ENERK	RKLKENKREK
Med-tru_KAN2	--L*	----	----	----	----
Vig-rad_KAN2	--L*	----	----	----	----
Glyc_KAN2	--L*	----	----	----	----
Vit-vin_KAN2	--H*	----	----	----	----
Theo-cac_KAN2	--H*	----	----	----	----
Pop-tri_hypothetical.protein	--H*SYPLCT	THFESLLSLR	GCW*RESGTQ	VRKSELKSKK	RKGRKKEKRR
Ric-com_KAN2	--*	----	----	----	----
Ath_KAN4	--SWGMEYAE	PSSDLTLLKC	*--	----	----
Ric-com_KAN4	--SWQMDYAE	SSNELTLLKC	*--	----	----
Pop-tri_KAN4	--SWQLDYAE	TTNELTLLKC	*--	----	----
Nel-nuc_KAN4	--SWEMDYAD	PTNELTLLKC	*--	----	----
The-cac_KAN4	--SWQMDYAE	SSNELTLLKC	*--	----	----
Vit-vin_KAN4	--SWQIDYAD	QSPNELALLK	C*VL*IS*IM	CFQREKISSM	HEICSRNFVL
Glycine_KAN4	--NWQKDHP	SSRELTLLKC	*--	----	----
Sol-lyc_KAN4	--SWKMGQAG	SSSNDLTLLK	C*	----	----
Med-tru_KAN4	--NWGKDHA	SSRELSLLKC	*--	----	----
Vit-vin_KAN4	--SWQIDYAD	QSPNELALLK	C*	----	----
Pop-tri_KAN4	----	----	----	----	----
Sol-tub_KAN4	--MSHLR*	----	----	----	----
Pru-per_KAN4	TAEWTVLNSL	NLQMT*	----	----	----
Amb-tri_KAN4	--SWQNDYSE	TTSELALLKC	*--	----	----
Fra-vesca_KAN4	SGEWSMLNTL	NLQMT*	----	----	----
Mus-acu_KAN4	--SWQMDYAE	TSNEMTLLRC	L*	----	----
Glyc_KAN4	--NWQKDHP	SSRELTLLKC	*--	----	----
Glyc_KAN4	--TSCKQTTR	X	----	----	----
Cam-sat_KAN4	--SWGMDYAE	PSSDLTLLKC	*LFNVKKNYK	*VSLDCQF*H	NLTC*IIWTL
Bra-rapa_KAN4	--SWGIDHV*	----	----	----	----
Bra-nap_KAN4	--SWGIDHV*	----	----	----	----

Ath_KAN1	-----	-----	-----	-----	-----
Amb-tric_KAN1	-----	-----	-----	-----	-----
Cam-sat_KAN1	-----	-----	-----	-----	-----
Bras-ole_KAN1-like	-----	-----	-----	-----	-----
Bra-nap_KAN1-like	-----	-----	-----	-----	-----
Vit-vin_KAN1	-----	-----	-----	-----	-----
Pru-mum_KAN1-variantX1	-----	-----	-----	-----	-----
The-cacao_KAN1-variantX1	-----	-----	-----	-----	-----
Ric-com_KAN1-variantX1	-----	-----	-----	-----	-----
Pop-eup_KAN1	-----	-----	-----	-----	-----
Pru-per_KAN1-variantX1	-----	-----	-----	-----	-----
Sol-tub_KAN1-like-variantX2	-----	-----	-----	-----	-----
Nel-nuc_KAN1-variantX1	-----	-----	-----	-----	-----
Vig-rad_KAN1	-----	-----	-----	-----	-----
Ath_KAN2	-----	-----	-----	-----	-----
Amb-tri_KAN2	-----	-----	-----	-----	-----
Ara-tha_GARP-like_KAN2	-----	-----	-----	-----	-----
Cam-sat_KAN2	-----	-----	-----	-----	-----
Bra-nap_KAN2	-----	-----	-----	-----	-----
Bra-rapa_KAN2	-----	-----	-----	-----	-----
Cit-sin_KAN2	-----	-----	-----	-----	-----
Vit-vin_KAN2	-----	-----	-----	-----	-----
The-cacao_KAN2	-----	-----	-----	-----	-----
Med-tru_KAN2	-----	-----	-----	-----	-----
Glycine_KAN2	-----	-----	-----	-----	-----
Vig-rad_KAN2	-----	-----	-----	-----	-----
Vig-ang_KAN2	-----	-----	-----	-----	-----
Vit-vin_KAN2-variantX4	-----	-----	-----	-----	-----
Pop-trichocarpa	-----	-----	-----	-----	-----
Ath_KAN3	-----	-----	-----	-----	-----
Bra-napus_KAN3	-----	-----	-----	-----	-----
Bra-nap_KAN3	FPVNLRSLEFX	-----	-----	-----	-----
Bra-nap_KAN3	FPVNLRSLEFX	-----	-----	-----	-----
Cam-sat_KAN3	-----	-----	-----	-----	-----
Raph-sat_KAN3	-----	-----	-----	-----	-----
Vig-ang_KAN2	KKKSKRS*RT	QGDKKDRKQQ	KKGLREKSMA	FLSELL*DPN	QHIIFSW*IY
Med-tru_KAN2	-----	-----	-----	-----	-----
Vig-rad_KAN2	-----	-----	-----	-----	-----
Glyc_KAN2	-----	-----	-----	-----	-----
Vit-vin_KAN2	-----	-----	-----	-----	-----
Theo-cac_KAN2	-----	-----	-----	-----	-----
Pop-tri_hypothetical.protein	RAKE*QRDSK	DRKQKVKSG	KGMSFISSE	IQINILYSYV	NMKS*FCML
Ric-com_KAN2	-----	-----	-----	-----	-----
Ath_KAN4	-----	-----	-----	-----	-----
Ric-com_KAN4	-----	-----	-----	-----	-----
Pop-tri_KAN4	-----	-----	-----	-----	-----
Nel-nuc_KAN4	-----	-----	-----	-----	-----
The-cac_KAN4	-----	-----	-----	-----	-----
Vit-vin_KAN4	SK*KKGKKRR	EFINGHNPLI	*IX-	-----	-----
Glycine_KAN4	-----	-----	-----	-----	-----
Sol-lyc_KAN4	-----	-----	-----	-----	-----
Med-tru_KAN4	-----	-----	-----	-----	-----
Vit-vin_KAN4	-----	-----	-----	-----	-----
Pop-tri_KAN4	-----	-----	-----	-----	-----
Sol-tub_KAN4	-----	-----	-----	-----	-----
Pru-per_KAN4	-----	-----	-----	-----	-----
Amb-tri_KAN4	-----	-----	-----	-----	-----
Fra-vesca_KAN4	-----	-----	-----	-----	-----
Mus-acu_KAN4	-----	-----	-----	-----	-----
Glyc_KAN4	-----	-----	-----	-----	-----
Glyc-KAN4	-----	-----	-----	-----	-----
Cam-sat_KAN4	EESSLSSHMLI	FQL*CSMIVF	GCINKRIGLS	SX-	-----
Bra-rapa_KAN4	-----	-----	-----	-----	-----
Bra-nap_KAN4	-----	-----	-----	-----	-----

Ath_KAN1	-----	-----	-----	-----	-----
Amb-tric_KAN1	-----	-----	-----	-----	-----
Cam-sat_KAN1	-----	-----	-----	-----	-----
Bras-ole_KAN1-like	-----	-----	-----	-----	-----
Bra-nap_KAN1-like	-----	-----	-----	-----	-----
Vit-vin_KAN1	-----	-----	-----	-----	-----
Pru-mum_KAN1-variantX1	-----	-----	-----	-----	-----
The-cacao_KAN1-variantX1	-----	-----	-----	-----	-----
Ric-com_KAN1-variantX1	-----	-----	-----	-----	-----
Pop-eup_KAN1	-----	-----	-----	-----	-----
Pru-per_KAN1-variantX1	-----	-----	-----	-----	-----
Sol-tub_KAN1-like-variantX2	-----	-----	-----	-----	-----
Nel-nuc_KAN1-variantX1	-----	-----	-----	-----	-----
Vig-rad_KAN1	-----	-----	-----	-----	-----
Ath_KAN2	-----	-----	-----	-----	-----
Amb-tri_KAN2	-----	-----	-----	-----	-----
Ara-tha_GARP-like_KAN2	-----	-----	-----	-----	-----
Cam-sat_KAN2	-----	-----	-----	-----	-----
Bra-nap_KAN2	-----	-----	-----	-----	-----
Bra-rapa_KAN2	-----	-----	-----	-----	-----
Cit-sin_KAN2	-----	-----	-----	-----	-----
Vit-vin_KAN2	-----	-----	-----	-----	-----
The-cacao_KAN2	-----	-----	-----	-----	-----
Med-tru_KAN2	-----	-----	-----	-----	-----
Glycine_KAN2	-----	-----	-----	-----	-----
Vig-rad_KAN2	-----	-----	-----	-----	-----
Vig-ang_KAN2	-----	-----	-----	-----	-----
Vit-vin_KAN2-variantX4	-----	-----	-----	-----	-----
Pop-trichocarpa	-----	-----	-----	-----	-----
Ath_KAN3	-----	-----	-----	-----	-----
Bra-napus_KAN3	-----	-----	-----	-----	-----
Bra-nap_KAN3	-----	-----	-----	-----	-----
Bra-nap_KAN3	-----	-----	-----	-----	-----
Cam-sat_KAN3	-----	-----	-----	-----	-----
Raph-sat_KAN3	-----	-----	-----	-----	-----
Vig-ang_KAN2	EL*LI ^{CM} FLQ	SERKKET*ES	ERE*ESERER	ERERELS* ^{RY}	EVILGNCNGA
Med-tru_KAN2	-----	-----	-----	-----	-----
Vig-rad_KAN2	-----	-----	-----	-----	-----
Glyc_KAN2	-----	-----	-----	-----	-----
Vit-vin_KAN2	-----	-----	-----	-----	-----
Theo-cac_KAN2	-----	-----	-----	-----	-----
Pop-tri_hypothetical.protein	LHSRRKRERE	RERERPLERD	GEREL* ^{PSQS}	IKRSLVIVTE	QFTLI* ^{NIFI}
Ric-com_KAN2	-----	-----	-----	-----	-----
Ath_KAN4	-----	-----	-----	-----	-----
Ric-com_KAN4	-----	-----	-----	-----	-----
Pop-tri_KAN4	-----	-----	-----	-----	-----
Nel-nuc_KAN4	-----	-----	-----	-----	-----
The-cac_KAN4	-----	-----	-----	-----	-----
Vit-vin_KAN4	-----	-----	-----	-----	-----
Glycine_KAN4	-----	-----	-----	-----	-----
Sol-lyc_KAN4	-----	-----	-----	-----	-----
Med-tru_KAN4	-----	-----	-----	-----	-----
Vit-vin_KAN4	-----	-----	-----	-----	-----
Pop-tri_KAN4	-----	-----	-----	-----	-----
Sol-tub_KAN4	-----	-----	-----	-----	-----
Pru-per_KAN4	-----	-----	-----	-----	-----
Amb-tri_KAN4	-----	-----	-----	-----	-----
Fra-vesca_KAN4	-----	-----	-----	-----	-----
Mus-acu_KAN4	-----	-----	-----	-----	-----
Glyc_KAN4	-----	-----	-----	-----	-----
Glyc-KAN4	-----	-----	-----	-----	-----
Cam-sat_KAN4	-----	-----	-----	-----	-----
Bra-rapa_KAN4	-----	-----	-----	-----	-----
Bra-nap_KAN4	-----	-----	-----	-----	-----

Ath_KAN1	-----	-----	-----	-----	-----
Amb-tric_KAN1	-----	-----	-----	-----	-----
Cam-sat_KAN1	-----	-----	-----	-----	-----
Bras-ole_KAN1-like	-----	-----	-----	-----	-----
Bra-nap_KAN1-like	-----	-----	-----	-----	-----
Vit-vin_KAN1	-----	-----	-----	-----	-----
Pru-mum_KAN1-variantX1	-----	-----	-----	-----	-----
The-cacao_KAN1-variantX1	-----	-----	-----	-----	-----
Ric-com_KAN1-variantX1	-----	-----	-----	-----	-----
Pop-eup_KAN1	-----	-----	-----	-----	-----
Pru-per_KAN1-variantX1	-----	-----	-----	-----	-----
Sol-tub_KAN1-like-variantX2	-----	-----	-----	-----	-----
Nel-nuc_KAN1-variantX1	-----	-----	-----	-----	-----
Vig-rad_KAN1	-----	-----	-----	-----	-----
Ath_KAN2	-----	-----	-----	-----	-----
Amb-tri_KAN2	-----	-----	-----	-----	-----
Ara-tha_GARP-like_KAN2	-----	-----	-----	-----	-----
Cam-sat_KAN2	-----	-----	-----	-----	-----
Bra-nap_KAN2	-----	-----	-----	-----	-----
Bra-rapa_KAN2	-----	-----	-----	-----	-----
Cit-sin_KAN2	-----	-----	-----	-----	-----
Vit-vin_KAN2	-----	-----	-----	-----	-----
The-cacao_KAN2	-----	-----	-----	-----	-----
Med-tru_KAN2	-----	-----	-----	-----	-----
Glycine_KAN2	-----	-----	-----	-----	-----
Vig-rad_KAN2	-----	-----	-----	-----	-----
Vig-ang_KAN2	-----	-----	-----	-----	-----
Vit-vin_KAN2-variantX4	-----	-----	-----	-----	-----
Pop-trichocarpa	-----	-----	-----	-----	-----
Ath_KAN3	-----	-----	-----	-----	-----
Bra-napus_KAN3	-----	-----	-----	-----	-----
Bra-nap_KAN3	-----	-----	-----	-----	-----
Bra-nap_KAN3	-----	-----	-----	-----	-----
Cam-sat_KAN3	-----	-----	-----	-----	-----
Raph-sat_KAN3	-----	-----	-----	-----	-----
Vig-ang_KAN2	LYIYEIFRYF	HQRSWVPNPI	FNSTPRHMLY	TLGTKERIEE	MDLGKD*KI*
Med-tru_KAN2	-----	-----	-----	-----	-----
Vig-rad_KAN2	-----	-----	-----	-----	-----
Glyc_KAN2	-----	-----	-----	-----	-----
Vit-vin_KAN2	-----	-----	-----	-----	-----
Theo-cac_KAN2	-----	-----	-----	-----	-----
Pop-tri_hypothetical.protein	FLX	-----	-----	-----	-----
Ric-com_KAN2	-----	-----	-----	-----	-----
Ath_KAN4	-----	-----	-----	-----	-----
Ric-com_KAN4	-----	-----	-----	-----	-----
Pop-tri_KAN4	-----	-----	-----	-----	-----
Nel-nuc_KAN4	-----	-----	-----	-----	-----
The-cac_KAN4	-----	-----	-----	-----	-----
Vit-vin_KAN4	-----	-----	-----	-----	-----
Glycine_KAN4	-----	-----	-----	-----	-----
Sol-lyc_KAN4	-----	-----	-----	-----	-----
Med_tru_KAN4	-----	-----	-----	-----	-----
Vit-vin_KAN4	-----	-----	-----	-----	-----
Pop-tri_KAN4	-----	-----	-----	-----	-----
Sol_tub_KAN4	-----	-----	-----	-----	-----
Pru-per_KAN4	-----	-----	-----	-----	-----
Amb-tri_KAN4	-----	-----	-----	-----	-----
Fra-vesca_KAN4	-----	-----	-----	-----	-----
Mus-acu_KAN4	-----	-----	-----	-----	-----
Glyc_KAN4	-----	-----	-----	-----	-----
Glyc_KAN4	-----	-----	-----	-----	-----
Cam-sat_KAN4	-----	-----	-----	-----	-----
Bra-rapa_KAN4	-----	-----	-----	-----	-----
Bra-nap_KAN4	-----	-----	-----	-----	-----

Ath_KAN1	-----
Amb-tric_KAN1	-----
Cam-sat_KAN1	-----
Bras-ole_KAN1-like	-----
Bra-nap_KAN1-like	-----
Vit-vin_KAN1	-----
Pru-mum_KAN1-variantX1	-----
The-cacao_KAN1-variantX1	-----
Ric-com_KAN1-variantX1	-----
Pop-eup_KAN1	-----
Pru-per_KAN1-variantX1	-----
Sol-tub_KAN1-like-variantX2	-----
Nel-nuc_KAN1-variantX1	-----
Vig-rad_KAN1	-----
Ath_KAN2	-----
Amb-tri_KAN2	-----
Ara-tha_GARP-like_KAN2	-----
Cam-sat_KAN2	-----
Bra-nap_KAN2	-----
Bra-rapa_KAN2	-----
Cit-sin_KAN2	-----
Vit-vin_KAN2	-----
The-cacao_KAN2	-----
Med-tru_KAN2	-----
Glycine_KAN2	-----
Vig-rad_KAN2	-----
Vig-ang_KAN2	-----
Vit-vin_KAN2-variantX4	-----
Pop-trichocarpa	-----
Ath_KAN3	-----
Bra-napus_KAN3	-----
Bra-nap_KAN3	-----
Bra-nap_KAN3	-----
Cam-sat_KAN3	-----
Raph-sat_KAN3	-----
Vig-ang_KAN2	IKCOKEYO
Med-tru_KAN2	-----
Vig-rad_KAN2	-----
Glyc_KAN2	-----
Vit-vin_KAN2	-----
Theo-cac_KAN2	-----
Pop-tri_hypothetical.protein	-----
Ric-com_KAN2	-----
Ath_KAN4	-----
Ric-com_KAN4	-----
Pop-tri_KAN4	-----
Nel-nuc_KAN4	-----
The-cac_KAN4	-----
Vit-vin_KAN4	-----
Glycine_KAN4	-----
Sol-lyc_KAN4	-----
Med tru_KAN4	-----
Vit-vin_KAN4	-----
Pop-tri_KAN4	-----
Sol_tub_KAN4	-----
Pru-per_KAN4	-----
Amb-tri_KAN4	-----
Fra-vesca_KAN4	-----
Mus-acu_KAN4	-----
Glyc_KAN4	-----
Glyc-KAN4	-----
Cam-sat_KAN4	-----
Bra-rapa_KAN4	-----
Bra-nap_KAN4	-----