

XC-78	-----PNIEVGNGLAK---	VPGVCTG-----	AGDKDTKNKN	CLEHC	QKECKA--TN	GSC	CGTSSIA--	KPNPQVCY	CYKQPD	PK-----
XC-80	-----PTEE--NDTLR---	LPGFCT-----	GDKGSPQ--	CKQHC	QKECGF--DF	GLC	SYGTSA--	DKN--TCF	CTNNPT	TIK-----
CTEFE_1575479	-----EQVVIKSGQHI---	LENYCSD-----	GRNNNNP--	CHLFC	MRECRS--GN	GGC	GNGGRT--	RPDSKH	CYCEAP	YSG-----
cluster-169	-----NQVAIPSGTHI---	LQGYCK-----	NHND--	CQMFC	MTECRS--GN	GGC	GNGGTS--	RPNRDD	CYCAAP	YSG-----
XC-7-90-90-49	-----ISGTYQ--FKDE	CKT-----	KLYGDEG--	CKSAC	NTDCSG--KN	GYC	GNGDSK--	TPDEDT	CYCVN	-----
MUSDO_30691693	-----KQLEPELHGRY---	KRATCDL-----	LSGTGVGHSA	CAAHCL	-LRGN--RG	GYC	NG-----	KGVCV	CRN	-----
PROTE_118432	-----KEIEPELHGRY---	KRATCDL-----	LSGTGINHSA	CAAHCL	-LRGN--RG	GYC	NG-----	KGVCV	CRN	-----
STOCA_2331285	-----RQLEPELHGRY---	KRATCDL-----	LSMWNVNHSA	CAAHCL	-LLGK--SG	GRC	ND-----	DAVCV	CRK	-----
DROME_416170	-----AHQEVQLQHSRQ---	KRATCDL-----	LSKWNWNHTA	CAGHCI	-AKGF--KG	GYC	ND-----	KAVCV	CRN	-----
ANOGA_77702046	----ETHHAALENYRA---	KRATCDL-----	ARGFGVGSSL	CAAHCI	-ARRY--RG	GYC	NS-----	KAVCV	CRN	-----
ORNMO_22324324	-----VEEQSVPRV--RRGY	GC-----	PFNQYQ	CHSHC	RGIRGY--KG	GYC	TGR-----	FKQTCK	CY	-----
ARGMO_114153302	-----PERSHGRV--RRGY	GC-----	PFNQYE	CHNHCK	GVPGY--KG	GYC	DGF-----	LKMTCR	CY	-----
XC-7-90-90-51	-----SQGSLQ--VPNI	CK-----	PNENDDK--	CNHFC	KNECGA--KK	GTC	SGQTT---	AQPNLC	CFCTYN	-----
XC-44	-----LVIDDENA--VPDI	CTS-----	NDETGDEA--	CNKHC	NTKCGS--DF	GFC	NEASE---	DKKVYCY	CQFN	-----
ANOGA_87080391	-----TTVT--LQST	CKL-----	FTADVSSIT	CKMYCV	-IKGK--TG	GYC	NS-----	EGLCTC	RAEDLH	FLLKPIINKD
XC-7-90-90-50-CLU	-----DQEIGNLAT--AKGQ	CKG-----	TDSDQKKAGK	CDKHCT	GVCLG--SG	GSC	GDGSSQ--	KPNKED	CYCKSK	-----
XC-58	-----TIDIADSAAE--IENL	CEL-----	SQREVQRENK	CNEYCK	TSCDA--NH	GVC	GSTDFGP--	DQEPQH	CYCYAES	DF-----
cluster-145	-----VEVEVSGSFYPTLELP	DYCT-----	HRRLDDDK	CSKFCE	HNCPFPKR	GVC	GVWGDS---	QAGNCY	CHT	-----
XC-63	-----IGDYY--IPKG	CKD-----	NKDNDKCTKL	CKEVCL	SEVKE--PW	GAC	GSNVHYENG	NI	NPDDCF	CFDLQVLGTSK
HELVI_6225253	EINARABIDPSISTHALIANAQT	CFKGEAQEGVCVKVDGSKL	CDLLC	RATNTT--WF	GACEVED	-----	NETHCH	CYGPC	-----	
ARATH_17380954	-----RSKT--WTGF	CG-----	NTRG--	CDSQC	KRWEA--SH	GACHA	QFP-----	GFACFC	CYFNC	-----