

a

Dunaliella_sali	RANLGMEVMH	ERNAHNFR	LD	LA		
Chlamydomonas_r	RANLGMEVMH	ERNAHNFR	LD	LA		
Haematococcus_l	RANLGMEVMH	ERNAHNFR	LD	LA		
Pisum_sativum_D	RANLGMEVMH	ERNAHNFR	LD	LA		
Zea_mays_D1_NP_	RANLGMEVMH	ERNAHNFR	LD	LA		
Spinacia_olerac	RANLGMEVMH	ERNAHNFR	LD	LA		
Thermosynechoco	RANLGMEVMH	ERNAHNFR	LD	LA		
Prochlorococcus	RANLGMEVMH	ERNAHNFR	LD	LA		
Chaetoceros_gra	RANLGI	EV	MH	ERNAHNFR	LD	LA
Cyanidium_calda	RANLGI	EV	MH	ERNAHNFR	LD	LA
Cyanidioschyzon	RANLGI	EV	MH	ERNAHNFR	LD	LA
Nostoc_7120_D1_	RANLGI	EV	MH	ERNAHNFR	LD	LA
Synechocystis_6	RANIGF	EV	MH	ERNAHNFR	LD	LA
Consistency	***9*	7*****	*****	***	***	

b

Dunaliella_sali	AAEYMT	HAF	L	GSLNSVG	GV	A	TEINAV	NFV
Chlamydomonas_r	AAEYMT	HAF	L	GSLNSVG	GV	A	TEINAV	NFV
Haematococcus_l	AAEYMT	HAF	L	GSLNSVG	GV	A	TEINAV	NFV
Thermosynechoco	AAEYMT	HAF	L	GSLNSVG	GV	A	TEIN	SVNFV
Pisum_sativum_C	SAEYMT	HAF	L	GSLNSVG	GV	A	TEINAV	NYV
Zea_mays_CP43_Q	SAEYMT	HAF	L	GSLNSVG	GV	A	TEINAV	NYV
Spinacia_olerac	SAEYMT	HAF	L	GSLNSVG	GV	A	TEINAV	NYV
Chaetoceros_gra	AAEYMT	HAF	L	GSLNSVG	GV	A	TEIN	SVNYV
Cyanidioschyzon	AAEYMT	HAF	L	GSLNSVG	GV	A	TEIN	SVNYV
Cyanidium_calda	AAEYMT	HAF	L	GSINSVG	GV	A	TEIN	SFNYV
Nostoc_7120_CP4	AAEYMT	HAF	L	GSLNSVG	GV	A	TEIN	SFNYV
Synechocystis_6	AAEYMT	HAF	L	GSLNSVG	GV	I	TDVNS	SFNYV
Prochlorococcus	AAEYMT	HAF	N	ASINSVG	GV	I	TEPNA	VNFV
Consistency	8*****	***8	9*9*****	98*	98*	77*	8*	

Unconserved 0 1 2 3 4 5 6 7 8 9 10 Conserved