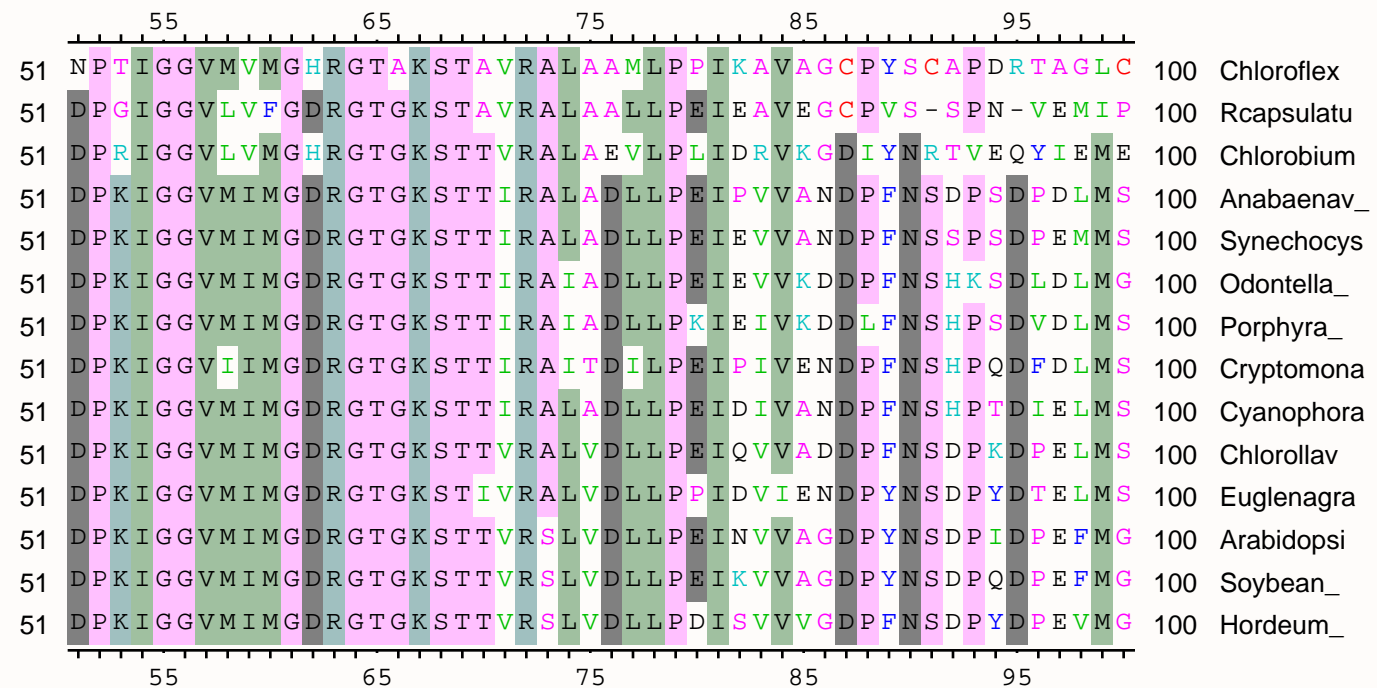
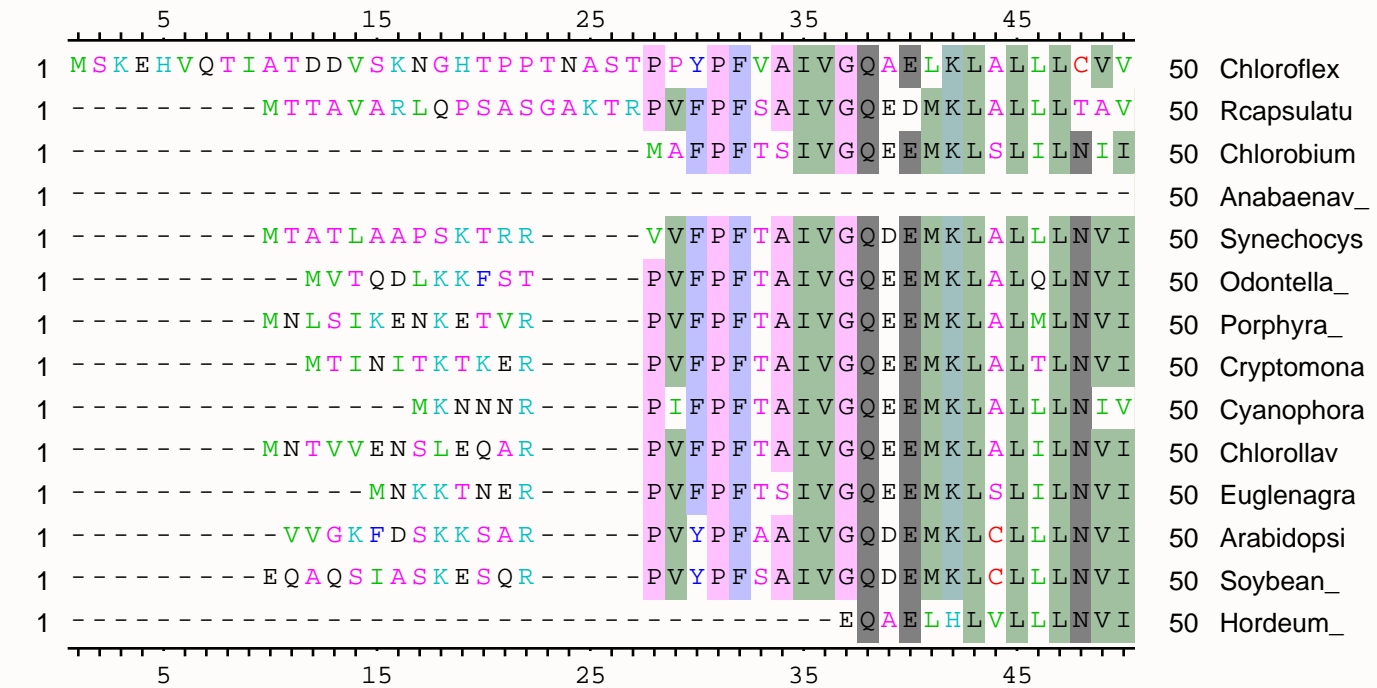


Sequences

- Chloroflex, 428 bp.
- Rcapsulatu, 428 bp.
- Chlorobium, 428 bp.
- Anabaenav\_, 428 bp.
- Synechocys, 428 bp.
- Odontella\_, 428 bp.
- Porphyra\_, 428 bp.
- Cryptomona, 428 bp.
- Cyanophora, 428 bp.
- Chlorollav, 428 bp.
- Euglenagra, 428 bp.
- Arabidopsi, 428 bp.
- Soybean\_, 428 bp.
- Hordeum\_, 428 bp.



	105	115	125	135	145		
101	DQCR	ALEQQSGKTKKPAVINIPV	PVVDLPLGATEDRVC	GLDIERAL	TQ	150 Chloroflex	
101	DWATVLS	-----TN-----	VIRKPTPVVDLPLGVS	EDRVV	GALDIERAIS	150 Rcapsulatu	
101	SGVKGAP	--VLKASDVKTEKIPV	PVVDLPLGATEDRVC	GLDIEKAL	TS	150 Chlorobium	
101	DEV	RQKSG---TGA	EIPIEFKKVMVDLPLGATEDRVC	GLDIEKAL	SEG	150 Anabaenav_	
101	EEV	IRVD---SQ	EPLSIVKKKVTMVDLPLGATEDRVC	GLDIEKAL	SEG	150 Synechocys	
101	NEIKLAIQ	---NGE	SLETELIKIPMVDLPLGATEDRVC	GLDIEKAL	TEG	150 Odontella_	
101	DENKHALQ	---NG	INIDKAYIKVPMVDLPLGATEDRVC	GLDIEKAL	TEG	150 Porphyra_	
101	DEV	SRIE---K	ESIPSVMKKVS	MIDLPLGATEDRVC	GLDIEKAL	TEG	150 Cryptomona
101	DNVRQLKE	---NGE	EISLIQKKVPMIDLPLGATEDRVC	GLDIEKAL	TEG	150 Cyanophora	
101	QEV	RGLQ---R	KETVPITTKKISMVDLPLGATEDRVC	GLDIEKAL	TEG	150 Chlorollav	
101	DDV	LEKIK---K	NEKVSIIQVKTPMVDLPLGG	TEDRVCGTIDIEKAI	SEG	150 Euglenagra	
101	VEV	REVE---K	EQVPIATKINMVDLPLGATEDRVC	GLDIEKAL	TEG	150 Arabidopsi	
101	VEV	REVL---Q	EELSVVLTKINMVDLPLGATEDRVC	GLDIEKAL	TEG	150 Soybean_	
101	PEV	RDRL---K	ESLPVTTTKITMVDLPLGATEDRVC	GLDIDKAL	TEG	150 Hordeum_	
	105	115	125	135	145		

	155	165	175	185	195		
151	VQAF	APGLLARANR	GFLYIDEVN	LLEDHLVDVLLD	VAA	SGVNVVEREGVS	200 Chloroflex
151	EKA	FEPGLLARANR	GYLYIDE	CNLEDHIVD	LLEDV	VAQSGENVVERDGLS	200 Rcapsulatu
151	VKA	FEPGLFAQANR	GFLYIDEVN	LLEDHLVDVLLD	VAA	SGKNVVEREGIS	200 Chlorobium
151	VKA	FEPGLLAKANR	GILYVDEVN	LLEDHLVDVLLD	SAAS	GWNTVEREGIS	200 Anabaenav_
151	VKA	FEPGLLAKANR	GILYVDEVN	LLEDHLVDVLLD	SAAG	GWNTVEREGIS	200 Synechocys
151	VKA	FEPGLLAKANR	GILYVDEVN	LLEDHLVD	ILLD	SAASGWNTVEREGIS	200 Odontella_
151	VKT	FEPGLLAKANR	GILYVDEVN	LLEDHLVD	ILLD	SAASGWNTVEREGIS	200 Porphyra_
151	VKA	FEPGLLAKANR	GILYVDEVN	LLEDHLVD	ILLD	SAASGWNTVEREGIS	200 Cryptomona
151	VKA	FEPGLLAQANR	GILYVDEVN	LLEDHLVD	ILLD	SAASGWNTVEREGIS	200 Cyanophora
151	VKA	FEPGLLAKANR	GILYVDEVN	LLEDHLVDVLLD	SAAS	GWNTVEREGIS	200 Chlorollav
151	KK	FEPGLLAQANR	GILYVDEVN	LLEDHLVDVLLD	SAAS	GWNTVEREGVS	200 Euglenagra
151	VKA	FEPGLLAKANR	GILYVDEVN	LLEDHLVDVLLD	SAAS	GWNTVEREGIS	200 Arabidopsi
151	VKA	FEPGLLAKANR	GILYVDEVN	LLEDHLVDVLLD	SAAS	GWNTVEREGIS	200 Soybean_
151	VKA	FEPGLLAKANR	GILYVDEVN	LLEDHLVDVLLD	SAAS	GWNTVEREGIS	200 Hordeum_
	155	165	175	185	195		

	205	215	225	235	245			
201	VRHP	ARFVLV	GS	GNPEEGDL	LRPQLLDR	FGLHARITTTITD	VSERVEIVKRR	250 Chloroflex
201	IRHP	ARFVLV	GS	GNPEEGDL	LRPQLLDR	FGLSVEVLS	PRDVEPTRVEVIRRR	250 Rcapsulatu
201	IRHP	ARFVLV	GS	GNPEEGEL	LRPQLLDR	FGLHARIT	INDVAKRVEIVKLR	250 Chlorobium
201	IRHP	ARFVLV	GS	GNPEEGEL	LRPQLLDR	FGMHAETV	KEPALRVQIVEQR	250 Anabaenav_
201	IRHP	ARFVLV	GS	GNPEEGEL	LRPQLLDR	FGMHAERTV	REPELRVKIVEQR	250 Synechocys
201	IRHP	ARFVLV	GS	GNPEEGEL	LRPQLLDR	FGMHAERTV	KDPILRVKVVEER	250 Odontella_
201	VRHP	ARFVLV	GS	GNPEEGEL	LRPQLLDR	FGMHAERTV	KDPELRVQIVEQR	250 Porphyra_

201	I R H P A R F V L V G S G N P E E G E L R P Q L L D R F G M H S E I R T V R D P E L R V K I V E Q R	250	Cryptomona
201	I R H P A R F V L V G S G N P E E G E L R P Q L L D R F G M H A E I R T V K D P T L R V Q I V E E R	250	Cyanophora
201	I S H P A R F I L V G S G N P E E G E L R P Q L L D R F G M H A Q I G T V K E P N L R V Q I V E Q R	250	Chlorollav
201	I C H P A R F I L V G S G N P E E G E L R P Q L L D R F G M H A Q I K T L K E P A L R V K I V Q Q R	250	Euglenagra
201	I S H P A R F I L I G S G N P E E G E L R P Q L L D R F G M H A Q V G T V R D A D L R V K I V E E R	250	Arabidopsi
201	I S H P A R F I L I G S G N P E E G E L R P Q L L D R F G M H A Q V G T V R D A E L R V K I V E E R	250	Soybean_
201	I S H P A R F I L I G S G N P E E G E L R P Q L L D R F G M H A Q V G T V R D A E L R V K I V E E R	250	Hordeum_

	255	265	275	285	295	
251	R E Y D A D P F A F V E K W A K E T Q K L Q R K I K Q A Q R R L P E V I L P D P V L Y K I A E L C V	300	Chloroflex			
251	D T Y D A D P K A F L E E W R P K D M D I R N Q I L E A R E R L P K V E A P N T A L Y D C A A L C I	300	Rcapsulatu			
251	R E Y D E N P E A F L K K V V R Q Q Q K L Q K E I V A A Q K L L P K V S M D D S V L T D I A R L C M	300	Chlorobium			
251	S E F D Q N P P T F L E K Y N P E Q T A L Q K K I V E A Q K L L P E V K L D Y D L R V K I S E V C S	300	Anabaenav_			
251	T E F D Q N P H P F C D Q Y Q T E Q E A L Q A K I V N A Q N L L P Q V T I D Y D Y R V K V S E V C A	300	Synechocys			
251	T S F D Q T P M V W I E N Y E K Q Q Q E L R D R I V L A Q K V L P T V E L D Y D L R V K I S E V C S	300	Odontella_			
251	T N F D Q D P K K C I E N C A K D Q I K L K Q Q I A D A Q L L L S T I T I D Y D L R V K I S Q V C G	300	Porphyra_			
251	S E F D K N P S A C L E T Y K N Q Q T E F K Q R I I Q A Q K V L P T V E L D Y D L R I R I S K I C G	300	Cryptomona			
251	S E F D R S P E D F L Q E Y K L Q Q E V L R Q R I I N A Q Q Q L N N V Q L N Y E I K V K I S Q V C S	300	Cyanophora			
251	A N F D A A P L E F R E T Y Q D S Q A Q L G N Q I L E A R N L L P Q I Q L E Y D Y R V K I S Q I C S	300	Chlorollav			
251	E L F E K S P K E F K E K Y K E E Q N K L M E K I I N A R K K L K N I I I K Y E L L E K I S Q I C S	300	Euglenagra			
251	A R F D S N P K D F R D T Y K T E Q D K L Q D Q I S T A R A N L S S V Q I D R E L K V K I S R V C S	300	Arabidopsi			
251	G R F D K N P K E F R D S Y K A E Q E K L Q Q Q I T S A R S V L S S V Q I D Q D L K V K I S K V C A	300	Soybean_			
251	A R F D R D P K T F R Q S Y L E E Q D K L Q E Q I T S A R S N L G S V Q L D H D L R V K I S Q V C S	300	Hordeum_			

	305	315	325	335	345	
301	K L E V D G H R G E L T L A R A - A T A L A A L E G R N E V T V Q D V R R I A V L A L R H R L R K D	350	Chloroflex			
301	A L G S D G L R G E L T L L R S - A R A L A A L E G A T A V G R D H L K R V A T M A L S H R L R R D	350	Rcapsulatu			
301	A L G I D G H R G E L T I T R T - A H A F A A L Q G D T N V T M E H V R K I A G L C L R H R L R K D	350	Chlorobium			
301	E L D V D G L R G D I V T N R A - A K A L T A Y E G R T E V T V D D I R R V I T L C L R H R L R K D	350	Anabaenav_			
301	E L D V D G L R G D I V T N R A - A K A L A A F E G R T E V T V D D I S R V I V L C L R H R L R K D	350	Synechocys			
301	Q L D V D G L R G D I V T N R A - A K A H A A Y H G R D K V T V E D I A K I I T L C L R H R L R K D	350	Odontella_			
301	E L D V D G L R G D I V T N R A - A K A Y A A F N G Q Q T V N S S D I S K V I T L C L R H R L R K D	350	Porphyra_			
301	E L D V D G L R G D I V T N R A - A K A H A A F N G K Q T V T V D D I K A V I T M C L R H R L R K D	350	Cryptomona			
301	E L D V D G L R G D I V T N R A - A K A L A A F E G R D E V T V D D V L R I I T L C L R H R L R K D	350	Cyanophora			
301	E L D V D G L R G D L V T N R A - S K A I A S F E G R T E V T P E D I F R V I P L C L R H R L R K D	350	Chlorollav			
301	E L N V D G L R G D M V T S R A - A K A L V A F E D R T E V T P K D I F T V I T L C L R H R L R K D	350	Euglenagra			
301	E L N V D G L R G D I V T N R A - A K A L A A L K G K D R V T P D D V A T V I P N C L R H R L R K D	350	Arabidopsi			
301	E L N V D G L R G D I V T N R A - A K A L A A L K G R D N V S A E D I A T V I P N C L R H R L R K D	350	Soybean_			
301	E L N V D G L R G D I V T N R A Y A K A L A A L K G K D V V T V E D I S T V I P T V L R H R L R K D	350	Hordeum_			

	355	365	375	385	395
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