	1	
Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 3792		
Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 3450		
Nostoc_sp_PCC_7120_gnl BL_ORD_ID 714		
Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3650		
Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3650 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 1770		
Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 1627		
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 4151		
Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2021		
Lyngbya_sp_CCY_8106_gnl BL_ORD_ID 4005		
Oscillatoria_sp_PCC_6506_gnl BL_ORD_ID 1058		
Cyanothece_PCC_7424_gnl BL_ORD_ID 4383 Cyanothece_PCC_7822_gnl BL_ORD_ID 206		
Cyanothece_PCC_8801_gnl BL_ORD_ID 1764		
Cyanothece_PCC_8802_gnl BL_ORD_ID 1739		
Microcystis_aeruginosa_NIES_843_gnl BL_ORD_ID 703		
Cyanothece_sp_BH68_ATCC_51142_gnl BL_ORD_ID 3651		
Cyanothece_sp_CCY_0110_gnl BL_ORD_ID 1780 Microcoleus_chthonoplastes_PCC_7420_gnl BL_ORD_ID 3381		
Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 3110		
Raphidiopsis_brookii_D9_gnl BL_ORD_ID 516		
Thermosynechococcus_elongatus_BP_1_gnl BL_ORD_ID 1087		
Synechocystis_sp_PCC_6803_gnl BL_ORD_ID 1103		
Synechococcus_sp_PCC_7002_gnl BL_ORD_ID 2207		
Trichodesmium_erythraeum_IMS101_gn1 BL_ORD_ID 3325 Synechococcus_sp_PCC_7335_gn1 BL_ORD_ID 2231		
ClpS2_Synechococcus_7942_ClpS2		
Synechococcus_elongatus_PCC_6301_gnl BL_ORD_ID 1043		
Synechococcus_elongatus_PCC_7942_gnl BL_ORD_ID 525		
Cyanothece_PCC_7425_gnl BL_ORD_ID 3769		
Gloeobacter_violaceus_PCC_7421_gn1 BL_ORD_ID 2237		
Cyanobium_sp_PCC_7001_gnl BL_ORD_ID 377 Prochlorococcus_marinus_MIT_9303_gnl BL_ORD_ID 1539		
Prochlorococcus_marinus_MIT_9303_gnl BL_ORD_ID 1539 Prochlorococcus_marinus_MIT_9313_gnl BL_ORD_ID 672		
Synechococcus_CC9605_gnl BL_ORD_ID 1418		
Synechococcus_sp_WH_8109_gnl BL_ORD_ID 1922		
Synechococcus_WH_8102_gnl BL_ORD_ID 1299		
Synechococcus_sp_BL107_gn1 BL_ORD_ID 90		
Synechococcus_sp_BL107_gn1 BL_ORD_ID 90 Synechococcus_sp_CC9902_gn1 BL_ORD_ID 1044		
Synechococcus_sp_BL107_gn1 BL_ORD_ID 90 Synechococcus_sp_CC9902_gn1 BL_ORD_ID 1044 Synechococcus_sp_RS9916_gn1 BL_ORD_ID 1876		
Synechococcus_sp_BL107_gn1 BL_ORD_ID 90 Synechococcus_sp_CC9902_gn1 BL_ORD_ID 1044 Synechococcus_sp_RS9916_gn1 BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gn1 BL_ORD_ID 1209		
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Synechococcus_sp_CC9902_gnl BL_ORD_ID 90 Synechococcus_sp_CC9902_gnl BL_ORD_ID 1044 Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_CM18701_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0205_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 1219 Synechococcus_sp_CB0205_gnl BL_ORD_ID 219 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9210_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5476		
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Synechococcus_sp_CC9902_gnl BL_ORD_ID 90 Synechococcus_sp_CC9902_gnl BL_ORD_ID 1044 Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_CC9311_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 1488 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1891 Nostoc_punctiforme_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 2473 Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 2031 Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 2792		
Synechococcus_sp_CC9902_gnl BL_ORD_ID 90 Synechococcus_sp_CC9902_gnl BL_ORD_ID 1044 Synechococcus_sp_R89916_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_wH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_R89917_gnl BL_ORD_ID 1527 Synechococcus_sp_R89917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_WH5701_gnl BL_ORD_ID 12187 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3Ba_2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 271 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9210_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_pastoris_CCMP1375_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 2031 Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 2792 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792		
Synechococcus_sp_CC9902_gnl BL_ORD_ID 90 Synechococcus_sp_CC9902_gnl BL_ORD_ID 1044 Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_CC9311_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 1488 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1891 Nostoc_punctiforme_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 2473 Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 2031 Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 2792		

Lyngbya_sp_CCY_8106_gnl BL_ORD_ID 3908	
Microcoleus_chthonoplastes_PCC_7420_gnl BL_ORD_ID 4785	
Leptolyngbya_valderiana_BDU_20041_gnl BL_ORD_ID 6	
Cyanothece_PCC_7425_gnl BL_ORD_ID 3320	
Oscillatoria_sp_PCC_6506_gnl BL_ORD_ID 4778	
Thermosynechococcus_elongatus_BP_1_gnl BL_ORD_ID 210	
Trichodesmium_erythraeum_IMS101_gnl BL_ORD_ID 952	
Cyanothece_PCC_7424_gnl BL_ORD_ID 1601	
Cyanothece_PCC_7822_gnl BL_ORD_ID 950	
Cyanothece_PCC_8801_gnl BL_ORD_ID 1215	
Cyanothece_PCC_8802_gnl BL_ORD_ID 1200	
Cyanothece_sp_BH68_ATCC_51142_gnl BL_ORD_ID 2328	
Cyanothece_sp_CCY_0110_gnl BL_ORD_ID 2487	
Microcystis_aeruginosa_NIES_843_gnl BL_ORD_ID 5244	
Synechococcus_sp_PCC_7002_gnl BL_ORD_ID 2405	
Synechocystis_sp_PCC_6803_gnl BL_ORD_ID 1854	
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Synechococcus_elongatus_PCC_7942_gnl BL_ORD_ID 739	
Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 939	
Synechococcus_sp_PCC_7335_gn1 BL_ORD_ID 2340	
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 664	
Synechococcus_sp_JA_3_3Ab_gn1 BL_ORD_ID 2382	
Cyanobium_sp_PCC_7001_gnl BL_ORD_ID 1599	
Prochlorococcus_marinus_MIT_9303_gnl BL_ORD_ID 2351	
Prochlorococcus_marinus_MIT_9313_gnl BL_ORD_ID 1789	
Synechococcus_sp_RS9916_gnl BL_ORD_ID 2779	
Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1650	
Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1651	
Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 363	
Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 368	
Synechococcus_WH_7803_gnl BL_ORD_ID 368	
Synechococcus_WH_8102_gnl BL_ORD_ID 2141	
Synechococcus_sp_WH7805_gn1 BL_ORD_ID 875	
Synechococcus_CC9605_gnl BL_ORD_ID 303	
Synechococcus_sp_WH_8109_gnl BL_ORD_ID 198	
Synechococcus_sp_BL107_gnl BL_ORD_ID 1716	
Synechococcus_sp_CC9902_gnl BL_ORD_ID 2014	
Synechococcus_sp_WH5701_gnl BL_ORD_ID 3138	
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1996	
Synechococcus_sp_CB0101_gnl BL_ORD_ID 2613	
Synechococcus_sp_CB0205_gnl BL_ORD_ID 783	
Synechococcus_sp_WH5701_gnl BL_ORD_ID 1345	
Synechococcus_RCC307_gnl BL_ORD_ID 2179	
Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 1697	
Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 596	
Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1590	
Prochlorococcus marinus MIT 9215 qnl BL ORD ID 1760	
Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 1690	
Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1495	
Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 1499	
Prochlorococcus_marinus_MIT_9515_gnl BL_ORD_ID 1677	
Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1621	
Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1932	
Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1886	
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 745	
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2530	MLSSAEAPSP GTVQWAPNGQ
Rhodopseudomonas_palustris_CGA009_gnl BL_ORD_ID 1197	
Rhodopseudomonas_palustris_CGA009_gnl BL_ORD_ID 3127	
Escherichia_coli_UTI89_gnl BL_ORD_ID 1000	
Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165	
Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165 Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165	
Chlorobium_tepidum_TLS_gnl BL_ORD_ID 2204	

	21	
Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 3792		
Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 3450		
Nostoc_sp_PCC_7120_gnl BL_ORD_ID 714		
Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3650		
Nobel - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3650		
Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 1770		
Total and		
Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 1627		
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 4151		
The book of the point of the po		
Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2021		
Lyngbya_sp_CCY_8106_gnl BL_ORD_ID 4005		
Oscillatoria_sp_PCC_6506_gnl BL_ORD_ID 1058		
Cyanothece_PCC_7424_gnl BL_ORD_ID 4383		
Grand bloom DCG 7000 and DT DD 200		
Cyanothece_PCC_7822_gnl BL_ORD_ID 206		
Cyanothece PCC 8801 qnl BL ORD ID 1764		
Cyanothece_PCC_8802_gnl BL_ORD_ID 1739		
Microcystis_aeruginosa_NIES_843_gnl BL_ORD_ID 703		
Cyanothece_sp_BH68_ATCC_51142_gnl BL_ORD_ID 3651		
Cyanothece_sp_CCY_0110_gnl BL_ORD_ID 1780		
Microcoleus_chthonoplastes_PCC_7420_gnl BL_ORD_ID 3381		
Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 3110		
Raphidiopsis_brookii_D9_gnl BL_ORD_ID 516		
Thermosynechococcus_elongatus_BP_1_gn1 BL_ORD_ID 1087		
Synechocystis_sp_PCC_6803_gnl BL_ORD_ID 1103		
Synechococcus_sp_PCC_7002_gnl BL_ORD_ID 2207		
This bad a minum and bus are TMC101 IDT ODD TO 2005		
Trichodesmium_erythraeum_IMS101_gnl BL_ORD_ID 3325		
Synechococcus_sp_PCC_7335_gnl BL_ORD_ID 2231		
ClpS2_Synechococcus_7942_ClpS2	<u>M</u> L	PSPFRPQTTI
Synechococcus_elongatus_PCC_6301_gnl BL_ORD_ID 1043		
D'IICOIOCOCCAD_CIOIIGACAD_FCC_OOOI_AIII BII_OKD_ID 1043		
Synechococcus_elongatus_PCC_7942_gnl BL_ORD_ID 525		
Cyanothece_PCC_7425_gnl BL_ORD_ID 3769		
cyanothece_rcc_/425_giiT_bi_okb_ib_j5705		
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2237		
Cyanobium_sp_PCC_7001_gnl BL_ORD_ID 377		
Prochlorococcus_marinus_MIT_9303_gnl BL_ORD_ID 1539		
Prochlorococcus_marinus_MIT_9313_gnl BL_ORD_ID 672		
Synechococcus_CC9605_gnl BL_ORD_ID 1418		
Synechococcus_sp_WH_8109_gnl BL_ORD_ID 1922		
Synechococcus_sp_wn_olus_gni BL_ORD_ID 1922		
Synechococcus_WH_8102_gnl BL_ORD_ID 1299		
Synechococcus_sp_BL107_gn1 BL_ORD_ID 90		
Syllectiococcus_sp_Biii0/_giii Bii_Okb_iib 90		
Synechococcus_sp_CC9902_gnl BL_ORD_ID 1044		
Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876		
Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209		
Synechococcus_WH_7803_gnl BL_ORD_ID 1209		
Syllectioeoccus_wii_/oos_gii bii_obb_iib 1209		
Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527		
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372		
Prochlorococcus sp CC9311 qnl BL ORD ID 1389		
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187		
Synechococcus_sp_wii5/01_gii1 Bii_Okb_ib 210/		
Synechococcus_RCC307_gnl BL_ORD_ID 1407		
Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488		
Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119		
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497		
Syliechococcus_sp_oA_z_sb_az_is_ghi bh_okb_ib 2497		
Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311		
Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272		
Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997		
Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999		
Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028		
Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784		
Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939		
Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514		
Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551		
Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552		
Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389		
Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348		
Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683		
Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684		
Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473		
Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891		
Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631		
Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 2031		
Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476		
Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476		
Arthrospira_platensis_NIES_39_gn1 BL_ORD_ID 6367		
Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792		
Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801		
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801		
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496		
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496		
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496 Raphidiopsis_brookii_D9_gnl BL_ORD_ID 1510		
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496 Raphidiopsis_brookii_D9_gnl BL_ORD_ID 1510 Lyngbya_sp_CCY_8106_gnl BL_ORD_ID 3908		
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496 Raphidiopsis_brookii_D9_gnl BL_ORD_ID 1510		
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496 Raphidiopsis_brookii_D9_gnl BL_ORD_ID 1510 Lyngbya_sp_CCY_8106_gnl BL_ORD_ID 3908 Microcoleus_chthonoplastes_PCC_7420_gnl BL_ORD_ID 4785		
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496 Raphidiopsis_brookii_D9_gnl BL_ORD_ID 1510 Lyngbya_sp_CCY_8106_gnl BL_ORD_ID 3908		

Cyanothece_PCC_7425_gnl BL_ORD_ID 3320	
Oscillatoria_sp_PCC_6506_gnl BL_ORD_ID 4778	
Thermosynechococcus_elongatus_BP_1_gnl BL_ORD_ID 210	
Trichodesmium_erythraeum_IMS101_gnl BL_ORD_ID 952	
Cyanothece_PCC_7424_gnl BL_ORD_ID 1601	
Cyanothece_PCC_7822_gnl BL_ORD_ID 950	
Cyanothece_PCC_8801_gnl BL_ORD_ID 1215	
Cyanothece_PCC_8802_gnl BL_ORD_ID 1200	
Cyanothece_sp_BH68_ATCC_51142_gnl BL_ORD_ID 2328	
Cyanothece_sp_CCY_0110_gnl BL_ORD_ID 2487	
Microcystis_aeruginosa_NIES_843_gnl BL_ORD_ID 5244	
Synechococcus_sp_PCC_7002_gnl BL_ORD_ID 2405	
Synechocystis_sp_PCC_6803_gnl BL_ORD_ID 1854	
ClpS1_Synechococcus_7942_ClpS1	
Synechococcus_elongatus_PCC_6301_gnl BL_ORD_ID 839	
Synechococcus_elongatus_PCC_7942_gn1 BL_ORD_ID 739	
Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 939	
Synechococcus_sp_PCC_7335_gnl BL_ORD_ID 2340	
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 664	
Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 2382	
Cyanobium_sp_PCC_7001_gnl BL_ORD_ID 1599	
Prochlorococcus_marinus_MIT_9303_gnl BL_ORD_ID 2351	
Prochlorococcus_marinus_MIT_9313_gnl BL_ORD_ID 1789	
Synechococcus_sp_RS9916_gnl BL_ORD_ID 2779	
Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1650	
Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1651	
Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 363	
Prochlorococcus_sp_WH_7803_gn1 BL_ORD_ID 368	
Synechococcus_WH_7803_gnl BL_ORD_ID 368	
Synechococcus_WH_8102_gnl BL_ORD_ID 2141	
Synechococcus_sp_WH7805_gnl BL_ORD_ID 875	
Synechococcus_CC9605_gnl BL_ORD_ID 303	
Synechococcus_sp_WH_8109_gnl BL_ORD_ID 198 Synechococcus_sp_BL107_gnl BL_ORD_ID 1716	
Synechococcus_sp_CC9902_gnl BL_ORD_ID 2014 Synechococcus_sp_WH5701_gnl BL_ORD_ID 3138	
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1996	
Synechococcus_sp_CB0101_gnl BL_ORD_ID 2613	
Synechococcus_sp_CB0205_gnl BL_ORD_ID 783	
Synechococcus_sp_WH5701_gnl BL_ORD_ID 1345	
Synechococcus_RCC307_gnl BL_ORD_ID 2179	
Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 1697	
Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 596	
Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1590	
Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1760	
Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 1690	
Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1495	
Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 1499	
Prochlorococcus_marinus_MIT_9515_gnl BL_ORD_ID 1677	
Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1621	
Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1932	
Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1886	
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 745	
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2530	KAQDRQHRVA SVHVTGLAAS
Rhodopseudomonas_palustris_CGA009_gnl BL_ORD_ID 1197	DAILATONIMO
Rhodopseudomonas_palustris_CGA009_gnl BL_ORD_ID 3127	
Escherichia_coli_UTI89_gnl BL_ORD_ID 1000	
Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165	
Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165	
Chlorobium_tepidum_TLS_gnl BL_ORD_ID 2204	

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Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 3792		
Anabaena variabilis ATCC 29413 qnl BL ORD ID 3450		
Nostoc_sp_PCC_7120_gnl BL_ORD_ID 714		
Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3650		
Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3650		
Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 1770		
Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 1627		
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 4151		
Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2021		
Lyngbya_sp_CCY_8106_gnl BL_ORD_ID 4005		
Oscillatoria_sp_PCC_6506_gnl BL_ORD_ID 1058		
Cyanothece_PCC_7424_gnl BL_ORD_ID 4383		
Cyanothece_PCC_7822_gnl BL_ORD_ID 206		
Cyanothece_PCC_8801_gnl BL_ORD_ID 1764		
Cyanothece_PCC_8802_gnl BL_ORD_ID 1739		
Microcystis_aeruginosa_NIES_843_gnl BL_ORD_ID 703		
Cyanothece_sp_BH68_ATCC_51142_gnl BL_ORD_ID 3651		
Cyanothece_sp_CCY_0110_gnl BL_ORD_ID 1780		
Microcoleus_chthonoplastes_PCC_7420_gnl BL_ORD_ID 3381		
Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 3110		
Raphidiopsis_brookii_D9_gnl BL_ORD_ID 516		
Thermosynechococcus_elongatus_BP_1_gn1 BL_ORD_ID 1087		
Synechocystis_sp_PCC_6803_gnl BL_ORD_ID 1103		
Synechococcus_sp_PCC_7002_gnl BL_ORD_ID 2207		
Syllectiococcus_sp_ecc_/002_giii Bii_Okb_ib 2207		
Trichodesmium_erythraeum_IMS101_gnl BL_ORD_ID 3325		
Synechococcus_sp_PCC_7335_gnl BL_ORD_ID 2231		
ClpS2_Synechococcus_7942_ClpS2	ASENV <mark>K</mark> TASK	AAOPKVNSSM
Grant - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
Synechococcus_elongatus_PCC_6301_gnl BL_ORD_ID 1043		M
Synechococcus_elongatus_PCC_7942_gnl BL_ORD_ID 525		<u>M</u>
Cyanothece_PCC_7425_gnl BL_ORD_ID 3769		_
Gloeobacter_violaceus_PCC_7421_gn1 BL_ORD_ID 2237		
Cyanobium_sp_PCC_7001_gnl BL_ORD_ID 377		
Prochlorococcus_marinus_MIT_9303_gnl BL_ORD_ID 1539		
Describilities with 0212 and DI ODD TD 072		
Prochlorococcus_marinus_MIT_9313_gnl BL_ORD_ID 672		
Synechococcus_CC9605_gnl BL_ORD_ID 1418		
Synechococcus_sp_WH_8109_gnl BL_ORD_ID 1922		
Synechococcus_sp_wh_6109_gni BL_ORD_ID 1922		
Synechococcus_WH_8102_gnl BL_ORD_ID 1299		
Synechococcus_sp_BL107_gnl BL_ORD_ID 90		
Synechococcus_sp_CC9902_gnl BL_ORD_ID 1044		
Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876		
Synechococcus_sp_ks9916_ghi BL_OkD_ID 1676		
Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209		
Synechococcus_WH_7803_gnl BL_ORD_ID 1209		
By need to coccub_mi_ / o o o _ girl bb_ o nb_ rb rb o		
Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527		
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372		
Dan ablassa and GG0211 and DI ODD TD 1200		
Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389		
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187		
Synechococcus_RCC307_gnl BL_ORD_ID 1407		
Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488		
Synechococcus sp CB0205 gnl BL ORD ID 2119		
Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119		
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497		
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497		
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311		
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311		
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272		
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272		
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997		
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997		
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999		
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028		
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028		
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784		
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784		
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939		
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939		
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1683		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1683		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1683		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_Marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_Marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 2031		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 2031		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 2031 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 2031 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 3476 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 2031 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_S120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 2031 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 6367 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 6367 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_S120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 2031 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 6367 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 6367 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 3476 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 3476 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 6367 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 3476 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 3476 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 6367 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 2031 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 551 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 3476 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2801 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496 Raphidiopsis_brookii_D9_gnl BL_ORD_ID 1510		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 551 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 3476 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2801 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496 Raphidiopsis_brookii_D9_gnl BL_ORD_ID 1510		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 3476 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 3476 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496 Raphidiopsis_brookii_D9_gnl BL_ORD_ID 3908		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 3476 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 3476 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496 Raphidiopsis_brookii_D9_gnl BL_ORD_ID 3908		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1515 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1848 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 3476 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496 Raphidiopsis_brookii_D9_gnl BL_ORD_ID 3908 Microcoleus_cnthonoplastes_PCC_7420_gnl BL_ORD_ID 4785		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1515 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1848 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 3476 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496 Raphidiopsis_brookii_D9_gnl BL_ORD_ID 3908 Microcoleus_cnthonoplastes_PCC_7420_gnl BL_ORD_ID 4785		MRETKRRNQC
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 3476 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 3476 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496 Raphidiopsis_brookii_D9_gnl BL_ORD_ID 3908		MRETKRRNQC

Cyanothece_PCC_7425_gnl BL_ORD_ID 3320	
Oscillatoria_sp_PCC_6506_gnl BL_ORD_ID 4778	
Thermosynechococcus_elongatus_BP_1_gnl BL_ORD_ID 210	
Trichodesmium_erythraeum_IMS101_gnl BL_ORD_ID 952	
Cyanothece_PCC_7424_gnl BL_ORD_ID 1601	
Cyanothece_PCC_7822_gnl BL_ORD_ID 950	
Cyanothece_PCC_8801_gnl BL_ORD_ID 1215	
Cyanothece_PCC_8802_gnl BL_ORD_ID 1200	
Cyanothece_sp_BH68_ATCC_51142_gnl BL_ORD_ID 2328	
Cyanothece_sp_CCY_0110_gnl BL_ORD_ID 2487	
Microcystis_aeruginosa_NIES_843_gnl BL_ORD_ID 5244	
Synechococcus_sp_PCC_7002_gnl BL_ORD_ID 2405 Synechocystis_sp_PCC_6803_gnl BL_ORD_ID 1854	
ClpS1_Synechococcus_7942_ClpS1	
Synechococcus_elongatus_PCC_6301_gnl BL_ORD_ID 839	
Synechococcus_elongatus_PCC_7942_gnl BL_ORD_ID 739	
Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 939	
Synechococcus_sp_PCC_7335_gnl BL_ORD_ID 2340	
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 664	
Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 2382	
Cyanobium_sp_PCC_7001_gnl BL_ORD_ID 1599	
Prochlorococcus_marinus_MIT_9303_gnl BL_ORD_ID 2351 Prochlorococcus_marinus_MIT_9313_gnl BL_ORD_ID 1789	MKL
Synechococcus_sp_RS9916_gnl BL_ORD_ID 2779	
Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1650 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1651	
Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 363	
Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 368 Synechococcus_WH_7803_gnl BL_ORD_ID 368	
Synechococcus_WH_8102_gnl BL_ORD_ID 2141	
Synechococcus_sp_WH7805_gnl BL_ORD_ID 875	
Synechococcus_CC9605_gnl BL_ORD_ID 303	
Synechococcus_sp_WH_8109_gnl BL_ORD_ID 198	
Synechococcus_sp_BL107_gnl BL_ORD_ID 1716	
Synechococcus_sp_CC9902_gnl BL_ORD_ID 1710	
Synechococcus_sp_WH5701_gnl BL_ORD_ID 3138	
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1996	
Synechococcus_sp_CB0101_gnl BL_ORD_ID 2613	
Synechococcus_sp_CB0205_gnl BL_ORD_ID 783	
Synechococcus_sp_WH5701_gnl BL_ORD_ID 1345	
Synechococcus_RCC307_gnl BL_ORD_ID 2179	
Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 1697	
Prochlorococcus_marinus_AS7001_gn1 BL_ORD_ID 1077 Prochlorococcus_marinus_MIT_9202_gn1 BL_ORD_ID 596	
Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1590	
Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1760	
Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 1700	
Prochlorococcus_marinus_MII_9301_gHI BL_ORD_ID 1090 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1495	
Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 1499	
Prochlorococcus_marinus_pastoris_ccmp1980_gn1 BL_ORD_ID 1499 Prochlorococcus_marinus_MIT_9515_gn1 BL_ORD_ID 1677	
Prochlorococcus_marinus_MIT_9315_gnl BL_ORD_ID 1621	
Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1021 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1932	
Prochlorococcus marinus NATL2A gnl BL ORD ID 1886	
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 745 Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2530	GYLAVASYPA SROPGDVOKR
	GILAVASIPA SKUPGDVUKK
Rhodopseudomonas_palustris_CGA009_gnl BL_ORD_ID 1197	
Rhodopseudomonas_palustris_CGA009_gnl BL_ORD_ID 3127	
Escherichia_coli_UTI89_gnl BL_ORD_ID 1000	
Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165	
Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165 Chlorobium_tepidum_TLS_gnl BL_ORD_ID 2204	

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Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 3792		
Anabaena variabilis ATCC 29413 gnl BL ORD ID 3450		
Nostoc_sp_PCC_7120_gnl BL_ORD_ID 714		
Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3650		
Nobel = 1		
Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3650		
Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 1770		
Anthonomics when six NIEG 20 and DI ODD ID 1627		
Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 1627		
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 4151		
Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2021		
Lyngbya_sp_CCY_8106_gnl BL_ORD_ID 4005		
Oscillatoria_sp_PCC_6506_gnl BL_ORD_ID 1058		
Cyanothece_PCC_7424_gnl BL_ORD_ID 4383		
Cyanothece_PCC_7822_gnl BL_ORD_ID 206		
Cyanothece_PCC_8801_gnl BL_ORD_ID 1764		
Cyanothece_PCC_8802_gnl BL_ORD_ID 1739		
Microcystis_aeruginosa_NIES_843_gnl BL_ORD_ID 703		
Cyanothece_sp_BH68_ATCC_51142_gnl BL_ORD_ID 3651		
Cyanothece_sp_CCY_0110_gnl BL_ORD_ID 1780		
Microcoleus_chthonoplastes_PCC_7420_gnl BL_ORD_ID 3381		
Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 3110		
Raphidiopsis_brookii_D9_gnl BL_ORD_ID 516		
Thermosynechococcus_elongatus_BP_1_gnl BL_ORD_ID 1087		
Synechocystis_sp_PCC_6803_gnl BL_ORD_ID 1103		
Synechococcus_sp_PCC_7002_gnl BL_ORD_ID 2207		
Trichodesmium_erythraeum_IMS101_gnl BL_ORD_ID 3325		M
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Synechococcus_sp_PCC_7335_gnl BL_ORD_ID 2231		
ClpS2_Synechococcus_7942_ClpS2	SPQPDESVLS	TIGVDDDCVZ
Cipsz_syllechococcus_/94z_cipsz		
Synechococcus_elongatus_PCC_6301_gnl BL_ORD_ID 1043	SPQPDESVLS	ILGVPRPCVK
Synechococcus_elongatus_PCC_7942_gnl BL_ORD_ID 525	SPQPDESVLS	
	PLALDEPATP	LLGVPRPCVR
Cyanothece_PCC_7425_gnl BL_ORD_ID 3769		
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2237		
Cyanobium_sp_PCC_7001_gnl BL_ORD_ID 377		
Prochlorococcus_marinus_MIT_9303_gn1 BL_ORD_ID 1539		
Prochlorococcus_marinus_MIT_9313_gnl BL_ORD_ID 672		
Synechococcus_CC9605_gnl BL_ORD_ID 1418		
Synechococcus_sp_WH_8109_gnl BL_ORD_ID 1922		
Syllectiococcus_sp_wi_off09_giff Bb_Okb_fb 1922		
Synechococcus_WH_8102_gnl BL_ORD_ID 1299		
Synechococcus_sp_BL107_gnl BL_ORD_ID 90		
Synechococcus_sp_CC9902_gnl BL_ORD_ID 1044		
Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876		
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Synechococcus_sp_MH_7803_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 272 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_MATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MATL2A_gnl BL_ORD_ID 1348	SRRAHQKDAS	RNGRPLLLMM
Synechococcus_sp_MH_7803_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 272 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_MATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1348	SRRAHQKDAS	RNGRPLLLMM
Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_wH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_WH5701_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1448 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 684	SRRAHQKDAS	RNGRPLLLMM
Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_wH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_WH5701_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1448 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 684	SRRAHQKDAS	RNGRPLLLMM
Synechococcus_sp_NH_7803_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_sp_CB0101_gnl BL_ORD_ID 219 Synechococcus_sp_CB0205_gnl BL_ORD_ID 219 Synechococcus_sp_CB0205_gnl BL_ORD_ID 219 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_mIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473	SRRAHQKDAS	RNGRPLLLMM
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Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_sp_CB0101_gnl BL_ORD_ID 2187 Synechococcus_sp_CB0101_gnl BL_ORD_ID 219 Synechococcus_sp_CB0205_gnl BL_ORD_ID 219 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891	SRRAHQKDAS	RNGRPLLLMM
Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_WH_7803_gnl BL_ORD_ID 1527 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 1272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 1999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 14631	SRRAHQKDAS	RNGRPLLLMM
Synechococcus_sp_WH_7803_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 2031	SRRAHQKDAS	RNGRPLLLMM
Synechococcus_sp_WH_7803_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 2031	SRRAHQKDAS	RNGRPLLLMM
Synechococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9315_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_pastoris_CCMP1375_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476	SRRAHQKDAS	RNGRPLLLMM
Synechococcus_sp_WH_7803_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_CS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_WH5701_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1219 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_2_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 772 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1563 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 15473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5476 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476	SRRAHQKDAS	RNGRPLLLMM
Synechococcus_sp_WH_7803_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_CS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_WH5701_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1219 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_2_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 772 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1563 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 15473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5476 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476	SRRAHQKDAS	RNGRPLLLMM
Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_sp_CB0101_gnl BL_ORD_ID 2187 Synechococcus_sp_CB0101_gnl BL_ORD_ID 21407 Synechococcus_sp_CB0205_gnl BL_ORD_ID 219 Synechococcus_sp_CB0205_gnl BL_ORD_ID 219 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 219 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_MS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_MST12A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 683 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 3476 Acaryochloris_marina_MBIC1017_gnl BL_ORD_ID 3476 Nostoc_punctiforme_ACCC_2913_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 6367	SRRAHQKDAS	RNGRPLLLMM
Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_sp_CB0101_gnl BL_ORD_ID 2187 Synechococcus_sp_CB0101_gnl BL_ORD_ID 21407 Synechococcus_sp_CB0205_gnl BL_ORD_ID 219 Synechococcus_sp_CB0205_gnl BL_ORD_ID 219 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 219 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_MS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_MST12A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 683 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 3476 Acaryochloris_marina_MBIC1017_gnl BL_ORD_ID 3476 Nostoc_punctiforme_ACCC_2913_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 6367	SRRAHQKDAS	RNGRPLLLMM
Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_WH5701_gnl BL_ORD_ID 187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0205_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 1488 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_MIT_122_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_MATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1389 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1683 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 5473 Anabaen_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaen_variabilis_ATCC_29413_gnl BL_ORD_ID 3476 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 6367 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 6367	SRRAHQKDAS	RNGRPLLLMM
Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_wH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_WH5701_gnl BL_ORD_ID 1407 Synechococcus_sp_WH5701_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 339 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 339 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_MIT_911BL_ORD_ID 1551 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 15473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 2031 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 3476 Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792	SRRAHQKDAS	RNGRPLLLMM
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Synechococcus_sp_NS9916_gnl BL_ORD_ID 1876 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209 Synechococcus_wH_7803_gnl BL_ORD_ID 1209 Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1527 Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389 Synechococcus_sp_WH5701_gnl BL_ORD_ID 1287 Synechococcus_sp_WH5701_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 1219 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 1927 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1928 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_12A_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1549 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1549 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1549 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1683 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 1684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 1687 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1687 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 3476 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2601 Arthrospira_platens	SRRAHQKDAS	RNGRPLLLMM

Cyanothece_PCC_7425_gnl BL_ORD_ID 3320	
Oscillatoria_sp_PCC_6506_gnl BL_ORD_ID 4778	
Thermosynechococcus_elongatus_BP_1_gnl BL_ORD_ID 210	
Trichodesmium_erythraeum_IMS101_gnl BL_ORD_ID 952	
Cyanothece_PCC_7424_gnl BL_ORD_ID 1601	
Cyanothece_PCC_7822_gnl BL_ORD_ID 950	
Cyanothece_PCC_8801_gnl BL_ORD_ID 1215	
Cyanothece_PCC_8802_gnl BL_ORD_ID 1200	
Cyanothece_sp_BH68_ATCC_51142_gnl BL_ORD_ID 2328	
Cyanothece_sp_CCY_0110_gnl BL_ORD_ID 2487	
Microcystis_aeruginosa_NIES_843_gnl BL_ORD_ID 5244	
Synechococcus_sp_PCC_7002_gnl BL_ORD_ID 2405	
Synechocystis_sp_PCC_6803_gnl BL_ORD_ID 1854 ClpS1_Synechococcus_7942_ClpS1	
Synechococcus_elongatus_PCC_6301_gnl BL_ORD_ID 839	
Synechococcus_elongatus_PCC_7942_gnl BL_ORD_ID 739	
Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 939	
Synechococcus_sp_PCC_7335_gnl BL_ORD_ID 2340	
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 664	
Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 2382	
Cyanobium_sp_PCC_7001_gn1 BL_ORD_ID 1599	M <mark>T</mark> AA
Prochlorococcus_marinus_MIT_9303_gnl BL_ORD_ID 2351	MGE RPTYIGA
Prochlorococcus_marinus_MIT_9313_gnl BL_ORD_ID 1789	GLPTICTMGE RPTYIGA
Synechococcus_sp_RS9916_gnl BL_ORD_ID 2779	
Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1650	
Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1651	
Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 363	
Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 368	
Synechococcus_WH_7803_gnl BL_ORD_ID 368	
Synechococcus_WH_8102_gnl BL_ORD_ID 2141	
Synechococcus_sp_WH7805_gnl BL_ORD_ID 875	
Synechococcus_CC9605_gnl BL_ORD_ID 303 Synechococcus_sp_WH_8109_gnl BL_ORD_ID 198	MSRSIS LFPLNLK
Synechococcus_sp_BL107_gnl BL_ORD_ID 1716	MDKSIS FLEFUTY
Synechococcus_sp_CC9902_gnl BL_ORD_ID 1710	
Synechococcus_sp_WH5701_gnl BL_ORD_ID 3138	
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1996	M
Synechococcus_sp_CB0101_gnl BL_ORD_ID 2613	MPEL DWMPRST
Synechococcus_sp_CB0205_gnl BL_ORD_ID 783	
Synechococcus_sp_WH5701_gnl BL_ORD_ID 1345	
Synechococcus_RCC307_gnl BL_ORD_ID 2179	
Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 1697	
Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 596	
Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1590	
Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1760	
Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 1690	
Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1495	MIN
Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 1499	<mark>MIN</mark>
Prochlorococcus_marinus_MIT_9515_gnl BL_ORD_ID 1677 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1621	MST.VDW
Prochlorococcus_marinus_MII_92II_gnI BL_ORD_ID 162I Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1932	MSNIMV SSLLKSA
Prochlorococcus marinus NATL2A gnl BL ORD ID 1886	MSNIMV NSLSKSA
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 745	BUIN VMINGM
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2530	LRWGAIVVSF GYTGTODDYP
Rhodopseudomonas_palustris_CGA009_gnl BL_ORD_ID 1197	
Rhodopseudomonas_palustris_CGA009_gnl BL_ORD_ID 3127	MLOP SLSHSAAGOA
Escherichia_coli_UTI89_gnl BL_ORD_ID 1000	MGKT
Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165	
Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165	
Chlorobium_tepidum_TLS_gnl BL_ORD_ID 2204	

Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 3792	81	
		M
		111
Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 3450	MVT	KLSIDVYAMS
Nostoc_sp_PCC_7120_gnl BL_ORD_ID 714	$MV_{\mathbf{T}}$	K LSIDVYAMS
Nostoc_punctiforme_ATCC_29133_gn1 BL_ORD_ID 3650	MVR	
Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3650	MVR	NLSADVYGMT
Nedularia gramicora GOVO 414 and Int. ORD In 1970		
Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 1770	MVT	R LSAAVYGAG
Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 1627		MV
		IVIV
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 4151		MI
Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2021		
Lyngbya_sp_CCY_8106_gnl BL_ORD_ID 4005		<mark>MT</mark>
Hynabya_bp_cc1_0100_9H1[bH_okb_1b]1005		
Oscillatoria_sp_PCC_6506_gnl BL_ORD_ID 1058		MT
	MOT	
Cyanothece_PCC_7424_gnl BL_ORD_ID 4383	MST	NVAAVVTAMT
Cyanothece_PCC_7822_gnl BL_ORD_ID 206	<mark>MST</mark>	NVAAVV <mark>K</mark> AMA
	<u>M</u> 51	IN V AA V V INAIMA
Cyanothece_PCC_8801_gnl BL_ORD_ID 1764		MA
Cyanothece_PCC_8802_gnl BL_ORD_ID 1739		MA
		TA CI
Microcystis_aeruginosa_NIES_843_gnl BL_ORD_ID 703	<u></u>	MS
Cyanothece_sp_BH68_ATCC_51142_gnl BL_ORD_ID 3651	MSK	RLSTGIOGMA
Cyanothece_sp_CCY_0110_gnl BL_ORD_ID 1780		MA
2		
Microcoleus_chthonoplastes_PCC_7420_gnl BL_ORD_ID 3381	MTV	VISAARSATS
Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 3110	MIZ	TRPSPVYAMA
Raphidiopsis_brookii_D9_gnl BL_ORD_ID 516	MK	TRPSPIYAMA
	1110	THE DI TIME
Thermosynechococcus_elongatus_BP_1_gn1 BL_ORD_ID 1087		
		NAT C
Synechocystis_sp_PCC_6803_gnl BL_ORD_ID 1103		<u>MIS</u>
Synechococcus_sp_PCC_7002_gnl BL_ORD_ID 2207		MA
Trichodesmium_erythraeum_IMS101_gnl BL_ORD_ID 3325	SLGISIIGII	ENIAVRGGAS
Synechococcus_sp_PCC_7335_gnl BL_ORD_ID 2231		
ClpS2_Synechococcus_7942_ClpS2	KRSRDDAFVL	TVLTCSLOAI
Synechococcus_elongatus_PCC_6301_gnl BL_ORD_ID 1043	KRSRNDAFVL	TVLTCSLQAI
Synechococcus_elongatus_PCC_7942_gnl BL_ORD_ID 525	KRSRDDAFVL	TVLTCSLQAI
Cyanothece_PCC_7425_gnl BL_ORD_ID 3769	MAKPIQT	SSLSPLAVAT
Gloeobacter_violaceus_PCC_7421_gni BL_ORD_ID 2237		м
	_	
Cyanobium_sp_PCC_7001_gnl BL_ORD_ID 377		
		N
Prochlorococcus_marinus_MIT_9303_gnl BL_ORD_ID 1539		MTF
		M
Prochlorococcus_marinus_MIT_9313_gnl BL_ORD_ID 672		M T F
Synechococcus_CC9605_gnl BL_ORD_ID 1418		MTC
		10
Synechococcus_sp_WH_8109_gnl BL_ORD_ID 1922		MTS
Synechococcus_WH_8102_gnl BL_ORD_ID 1299		<mark>M</mark> SS
Synechococcus_sp_BL107_gnl BL_ORD_ID 90		MTS
		
Synechococcus_sp_CC9902_gnl BL_ORD_ID 1044		MTS
Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876		<mark>M</mark> <mark>TG</mark>
Procedure on MII 7002 and DI ODD TD 1000		
Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209		MTS
Synechococcus_WH_7803_gnl BL_ORD_ID 1209		MTS
Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527	YLLVOASCSR	ALM <mark>TS</mark>
	THE VENEZUE	11111
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372		
, , _		M TV
		M <mark>T</mark> V
Proclitorococcus_sp_cc9311_gff1[BL_0RD_1D]1389		M <mark>T</mark> V M <u>T</u> M
Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389		
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187		
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187		M <mark>T</mark> M M
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407		
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407		M <mark>T</mark> M M
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488		M <mark>T</mark> M M M <mark>TS</mark>
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407		M <mark>T</mark> M M
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119		MTMTSMTS
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497		MTMTS
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497		MTMTSMTS
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311		MTMTSTSMQPIRSISMTTEAP
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497		MTMTSTSMQPIRSISMTTEAP
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272		MTMTSTSMQPIRSISMTTEAP
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997		MTMTSTSMQPIRSISMTTEAP
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997		MTMTSTSMQPIRSISMTTEAP
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999		MTMTSTSMQPIRSISMTTEAP
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997		MTMTSTSMQPIRSISMTTEAP
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028		MTMTSTSMQPIRSISMTTEAP
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784		MTMTSTSMQPIRSISMTTEAP
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784		MTMTSTSMQPIRSISMTTEAP
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939	M	MTMTSTSMQPIRSISMTTEAPMTTEAP FKRLSITIPE
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939		MTMTSTSMQPIRSISMTTEAP
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514	M	MTMTSTSMTTEAPMTTEAP FKRLSITIPE
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939	M	MTMTSTSMQPIRSISMTTEAPMTTEAP FKRLSITIPE
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311 Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551	M	MTMTSTSTSMTTEAPMTTEAP FKRLSITIPE
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Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_MATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496 Raphidiopsis_brookii_D9_gnl BL_ORD_ID 3908	DKKIMTRHTK	MTMMTSMQPIRSISMTTEAPMTTEAP FKRLSITIPE
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_MATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496 Raphidiopsis_brookii_D9_gnl BL_ORD_ID 3908	DKKIMTRHTK	MTMMTSMQPIRSISMTTEAPMTTEAP FKRLSITIPE
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1408 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 272 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_MATL1A_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 3476 Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476 Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 4785	DKKIMTRHTK	MTMMTSMQPIRSISMTTEAPMTTEAP FKRLSITIPE
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1408 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 272 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9212_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551 Prochlorococcus_marinus_MATL1A_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 3476 Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476 Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 4785	DKKIMTRHTK	MTMMTSMQPIRSISMTTEAPMTTEAP FKRLSITIPE
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187 Synechococcus_RCC307_gnl BL_ORD_ID 1407 Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488 Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 272 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1784 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939 Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552 Prochlorococcus_marinus_MATL1A_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1348 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684 Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473 Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 5473 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631 Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476 Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 3476 Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496 Raphidiopsis_brookii_D9_gnl BL_ORD_ID 3908	DKKIMTRHTK	MTMMTSMQPIRSISMTTEAPMTTEAP FKRLSITIPE

Cyanothece_PCC_7425_gnl BL_ORD_ID 3320		
Oscillatoria_sp_PCC_6506_gnl BL_ORD_ID 4778		<u></u>
Thermosynechococcus_elongatus_BP_1_gnl BL_ORD_ID 210		<mark>ME</mark> AW
Trichodesmium_erythraeum_IMS101_gnl BL_ORD_ID 952		
Cyanothece_PCC_7424_gnl BL_ORD_ID 1601		
Cyanothece_PCC_7822_gnl BL_ORD_ID 950		<mark>MS</mark>
Cyanothece_PCC_8801_gnl BL_ORD_ID 1215		
Cyanothece_PCC_8802_gnl BL_ORD_ID 1200		
Cyanothece_sp_BH68_ATCC_51142_gnl BL_ORD_ID 2328		
Cyanothece_sp_CCY_0110_gnl BL_ORD_ID 2487		
Microcystis_aeruginosa_NIES_843_gnl BL_ORD_ID 5244 Synechococcus_sp_PCC_7002_gnl BL_ORD_ID 2405		
Synechocystis_sp_PCC_6803_gnl BL_ORD_ID 1854		
ClpS1_Synechococcus_7942_ClpS1		
Synechococcus_elongatus_PCC_6301_gnl BL_ORD_ID 839		
Synechococcus_elongatus_PCC_7942_gnl BL_ORD_ID 739		
Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 939		
Synechococcus_sp_PCC_7335_gn1 BL_ORD_ID 2340		
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 664		
Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 2382		
Cyanobium_sp_PCC_7001_gnl BL_ORD_ID 1599	A <mark>M</mark> TTV	
Prochlorococcus_marinus_MIT_9303_gnl BL_ORD_ID 2351	<mark>LP</mark> IVL	
Prochlorococcus_marinus_MIT_9313_gnl BL_ORD_ID 1789	VPIVL	AMAVNAPSPT
Synechococcus_sp_RS9916_gnl BL_ORD_ID 2779		
Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1650		
Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1651		
Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 363 Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 368	<u>M</u>	
Synechococcus_WH_7803_gnl BL_ORD_ID 368	M	VMAVETPSKI
Synechococcus_WH_8102_gnl BL_ORD_ID 2141		AMAVDTPTRS
Synechococcus_sp_WH7805_gnl BL_ORD_ID 875		
Synechococcus_CC9605_gnl BL_ORD_ID 303	<mark>M</mark>	
Synechococcus_sp_WH_8109_gnl BL_ORD_ID 198	VF <mark>GS</mark> M	
Synechococcus_sp_BL107_gnl BL_ORD_ID 1716		
Synechococcus_sp_CC9902_gn1 BL_ORD_ID 2014		-MAEETPTRS
Synechococcus_sp_WH5701_gnl BL_ORD_ID 3138		
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1996	<mark>HR</mark> SDL	AMVGSTSSTS
Synechococcus_sp_CB0101_gnl BL_ORD_ID 2613	<mark>PC</mark> TAA	FTATQTPGRE
Synechococcus_sp_CB0205_gnl BL_ORD_ID 783	M	
Synechococcus_sp_WH5701_gnl BL_ORD_ID 1345	<mark>MSD</mark> T	
Synechococcus_RCC307_gnl BL_ORD_ID 2179 Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 1697		THASETPVSS MLSIKLEOSG
Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 596		
Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1590		
Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1760		MSSIKLEORV
Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 1690		
Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1495	RFSCNYNOKV	MSNIKFEKGE
Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 1499	RFSCNYNQKV	MSNI <mark>K</mark> FEKGE
Prochlorococcus_marinus_MIT_9515_gnl BL_ORD_ID 1677		MSIIKLEKGD
Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1621	<mark>NYL</mark> PT	GIMVEATGSS
Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1932	IHL <mark>DS</mark>	LIMV <mark>D</mark> SANQT
Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1886	IHL <mark>ES</mark>	LIMV <mark>D</mark> SANQT
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 745		
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2530	HA <mark>SMER</mark> MVLA	PAAVSAPPLP
Rhodopseudomonas_palustris_CGA009_gnl BL_ORD_ID 1197	CDD IN DDIA	MA CDCCB CCB
Rhodopseudomonas_palustris_CGA009_gnl BL_ORD_ID 3127 Escherichia_coli_UTI89_gnl BL_ORD_ID 1000	GDRIN-RPLA	MAGDGGRSGP
Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165		MGRVTAPAPL
Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165		MGRVTAPAPL
Chlorobium_tepidum_TLS_gnl BL_ORD_ID 2204		MIRLTA
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Acaryochloris marina MBIC11017 qnl | BL ORD ID | 3792
                                                                                OTPVTRPEEK
Anabaena_variabilis_ATCC_29413_gnl|BL_ORD_ID|3450
                                                                                TAPTVTP--E
Nostoc_sp_PCC_7120_gnl|BL_ORD_ID|714
                                                                                FAPTVTP
Nostoc_punctiforme_ATCC_29133_gnl|BL_ORD_ID|3650
Nostoc_punctiforme_PCC_73102_gnl|BL_ORD_ID|3650
                                                                                FAPTITP
                                                                                         --E
                                                                                PAPTITE
                                                                                                       \Gamma V \Omega
Nodularia_spumigena_CCY9414_gnl|BL_ORD_ID|1770
Arthrospira_platensis_NIES_39_gnl|BL_ORD_ID|1627
                                                                                 SPTTTP
Arthrospira_sp_PCC_8005_gnl|BL_ORD_ID|4151
Arthrospira_platensis_Paraca_gnl|BL_ORD_ID|2021
Lyngbya_sp_CCY_8106_gnl|BL_ORD_ID|4005
Oscillatoria_sp_PCC_6506_gnl|BL_ORD_ID|1058
Cyanothece_PCC_7424_gnl|BL_ORD_ID|4383
Cyanothece_PCC_7822_gnl|BL_ORD_ID|206
Cyanothece_PCC_8801_gnl|BL_ORD_ID|1764
                                                                                 SPTIAP
                                                                                           D
                                                                                                       TVC
                                                                                           D
                                                                                CAPTIAP
                                                                                                       VVC
                                                                                           D
                                                                                CAPSVAP
                                                                                              GST
                                                                                                       AVV
Cyanothece_PCC_8802_gnl|BL_ORD_ID|1739
                                                                                                       VVC
Microcystis_aeruginosa_NIES_843_gnl|BL_ORD_ID|703
                                                                                 SAPSTT
Cyanothece_sp_BH68_ATCC_51142_gnl|BL_ORD_ID|3651
                                                                                              GSI
                                                                                                        /ID
Cyanothece_sp_CCY_0110_gnl|BL_ORD_ID|1780
                                                                                                       VID
Microcoleus_chthonoplastes_PCC_7420_gnl|BL_ORD_ID|3381
                                                                                AAPTOAI
Cylindrospermopsis_raciborskii_CS_505_gnl|BL_ORD_ID|3110
                                                                                SAPTVTP
                                                                                           D
Raphidiopsis_brookii_D9_gnl|BL_ORD_ID|516
                                                                                                       IVC
                                                                                PAPTVTF
Thermosynechococcus_elongatus_BP_1_gnl|BL_ORD_ID|1087
Synechocystis_sp_PCC_6803_gnl|BL_ORD_ID|1103
Synechococcus_sp_PCC_7002_gnl | BL_ORD_ID | 2207
Trichodesmium_erythraeum_IMS101_gnl|BL_ORD_ID|3325
                                                                                              CDS
Synechococcus_sp_PCC_7335_gnl|BL_ORD_ID|2231
ClpS2_Synechococcus_7942_ClpS2
{\tt Synechococcus\_elongatus\_PCC\_6301\_gnl\,|BL\_ORD\_ID\,|\,1043}
                                                                                AAPATAP
                                                                                           G
                                                                                                       Γ<mark>R</mark>V
Synechococcus_elongatus_PCC_7942_gnl|BL_ORD_ID|525
                                                                                AA<mark>PATA</mark>P
Cyanothece_PCC_7425_gnl|BL_ORD_ID|3769
Gloeobacter_violaceus_PCC_7421_gnl|BL_ORD_ID|2237
Cyanobium_sp_PCC_7001_gnl|BL_ORD_ID|377
                                                                                 ROSPTP
                                                                                              ODE
Prochlorococcus_marinus_MIT_9303_gnl|BL_ORD_ID|1539
Prochlorococcus_marinus_MIT_9313_gnl | BL_ORD_ID | 672
                                                                                ATPGTTP
Synechococcus_CC9605_gnl|BL_ORD_ID|1418
                                                                                SSPGSSA
                                                                                              LE
                                                                                                       OGI
Synechococcus_sp_WH_8109_gnl|BL_ORD_ID|1922
                                                                                SSPGSS
                                                                                              LEI
                                                                                                       QGT
Synechococcus_WH_8102_gnl|BL_ORD_ID|1299
                                                                                SSPGSAS
                                                                                              LEE
Synechococcus_sp_BL107_gn1|BL_ORD_ID|90
                                                                                SS<mark>P</mark>SSSI
                                                                                              LE
Synechococcus_sp_CC9902_gnl|BL_ORD_ID|1044
                                                                                SSPSSSI
Synechococcus_sp_RS9916_gnl | BL_ORD_ID | 1876
                                                                                              EE
                                                                                SSGAQSI
Prochlorococcus_sp_WH_7803_gnl|BL_ORD_ID|1209
                                                                                SS<mark>PG</mark>VSI
                                                                                              LEI
                                                                                                       DRC
Synechococcus_WH_7803_gnl|BL_ORD_ID|1209
                                                                                SSPG<mark>V</mark>ST
                                                                                              LE
Synechococcus_sp_WH7805_gnl|BL_ORD_ID|1527
                                                                                 SSPGVST
                                                                                              LE
Synechococcus_sp_RS9917_gnl|BL_ORD_ID|1372
                                                                                TPTGTAT
                                                                                              LD
Prochlorococcus_sp_CC9311_gnl|BL_ORD_ID|1389
Synechococcus_sp_WH5701_gnl|BL_ORD_ID|2187
                                                                                              PAG
                                                                                AAPGVQI
                                                                                                       TRC
Synechococcus_RCC307_gnl|BL_ORD_ID|1407
                                                                                SAPSRQ:
                                                                                              GSI
Synechococcus_sp_CB0101_gnl|BL_ORD_ID|1488
                                                                                 -MAQQ
                                                                                              RDF
Synechococcus_sp_CB0205_gnl | BL_ORD_ID | 2119
Synechococcus_sp_JA_2_3B_a2_13_gnl | BL_ORD_ID | 2497
Synechococcus_sp_JA_3_3Ab_gnl | BL_ORD_ID | 1311
                                                                                SSPGGQA
                                                                                              ME
                                                                                TRPAQQE
                                                                                              PSI
                                                                                T<mark>R</mark>PAQQ:
Cyanobacterium_sp_UCYN_A_gnl | BL_ORD_ID | 272
                                                                                [SISTN
Prochlorococcus_marinus_AS9601_gnl|BL_ORD_ID|997
                                                                                MVNS<mark>LG</mark>I
                                                                                              LEF
Prochlorococcus_marinus_MIT_9301_gnl | BL_ORD_ID | 999
Prochlorococcus_marinus_MIT_9215_gnl | BL_ORD_ID | 1028
                                                                                MFNSL<mark>G</mark>T
                                                                                               D
                                                                                MLNSLS7
                                                                                              LDC
Prochlorococcus_marinus_MIT_9202_gnl | BL_ORD_ID | 1784
                                                                                              LDÇ
                                                                                MFNSLSI
Prochlorococcus_marinus_MIT_9312_gnl | BL_ORD_ID | 939
Prochlorococcus_marinus_MIT_9211_gnl | BL_ORD_ID | 1514
Prochlorococcus_marinus_SS120_gnl | BL_ORD_ID | 1551
                                                                                MYNSPLI
                                                                                              SANSTTI
                                                                                              LDF
                                                                                 SANSTTI
                                                                                              LDI
Prochlorococcus_marinus_marinus_CCMP1375_gnl|BL_ORD_ID|1552
                                                                                              LDE
                                                                                 SANSTTI
Prochlorococcus_marinus_NATL1A_gnl|BL_ORD_ID|1389
                                                                                              LDI
Prochlorococcus_marinus_NATL2A_gnl|BL_ORD_ID|1348
                                                                                              LDI
                                                                                 TNSTT
Prochlorococcus_marinus_MED4_gnl|BL_ORD_ID|683
                                                                                               <mark>/</mark>DI
                                                                                SDNLTTS
Prochlorococcus_marinus_pastoris_CCMP1986_gnl|BL_ORD_ID|684
                                                                                              VDE
                                                                                SDNLTTS
Acaryochloris_marina_MBIC11017_gnl|BL_ORD_ID|5473
                                                                                   MSVET
Anabaena_variabilis_ATCC_29413_gnl|BL_ORD_ID|1891
                                                                                  MSVET
Nostoc_sp_PCC_7120_gnl|BL_ORD_ID|4631
                                                                                --MSVET
Nodularia_spumigena_CCY9414_gnl|BL_ORD_ID|2031
Nostoc_punctiforme_ATCC_29133_gnl|BL_ORD_ID|3476
Nostoc_punctiforme_PCC_73102_gnl|BL_ORD_ID|3476
                                                                                  MSVET
                                                                                   MSVET
Arthrospira_platensis_NIES_39_gnl|BL_ORD_ID|6367
                                                                                GSVSTQ7
                                                                                              ΕK
                                                                                  MSTQT
Arthrospira_platensis_Paraca_gnl|BL_ORD_ID|2792
                                                                                                        3TN
Arthrospira_sp_PCC_8005_gnl|BL_ORD_ID|2801
                                                                                              EKT
Cylindrospermopsis_raciborskii_CS_505_gnl|BL_ORD_ID|496
Raphidiopsis_brookii_D9_gnl|BL_ORD_ID|1510
Lyngbya_sp_CCY_8106_gnl|BL_ORD_ID|3908
Microcoleus_chthonoplastes_PCC_7420_gnl|BL_ORD_ID|4785
Leptolyngbya_valderiana_BDU_20041_gnl|BL_ORD_ID|6
                                                                                --MSVET--I EKR----
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Cyanothece_PCC_7425_gnl|BL_ORD_ID|3320
Oscillatoria sp PCC 6506 gnl|BL ORD ID|4778
Thermosynechococcus_elongatus_BP_1_gnl | BL_ORD_ID | 210 Trichodesmium_erythraeum_IMS101_gnl | BL_ORD_ID | 952
                                                                                     PTMSVQT
                                                                                                          TTSTV
                                                                                       -MSIET
                                                                                                    EKP
Cyanothece_PCC_7424_gnl | BL_ORD_ID | 1601
Cyanothece_PCC_7822_gnl | BL_ORD_ID | 950
                                                                                                    EKS--TTSTV
                                                                                     MSTSTQ
                                                                                     TSTSTO
                                                                                                          -STST
Cyanothece_PCC_8801_gnl | BL_ORD_ID | 1215
                                                                                     --MTTE
                                                                                     --MTTEV
Cyanothece_PCC_8802_gnl | BL_ORD_ID | 1200
                                                                                                    EKRSTSSATT
Cyanothece_sp_BH68_ATCC_51142_gnl | BL_ORD_ID | 2328
Cyanothece_sp_CCY_0110_gnl | BL_ORD_ID | 2487
                                                                                        MTTEV
                                                                                                    EKRSSSTST
Microcystis_aeruginosa_NIES_843_gnl|BL_ORD_ID|5244
Synechococcus_sp_PCC_7002_gnl|BL_ORD_ID|2405
Synechocystis_sp_PCC_6803_gnl|BL_ORD_ID|1854
ClpS1_Synechococcus_7942_ClpS1
                                                                                     --MSTGV
                                                                                     -MMATEV
                                                                                                        --SNST
                                                                                     --MAVET
Synechococcus_elongatus_PCC_6301_gnl | BL_ORD_ID | 839
Synechococcus_elongatus_PCC_7942_gnl | BL_ORD_ID | 739
                                                                                       MAVET
                                                                                                        --ETTT
                                                                                       -MAVET
Cyanobacterium_sp_UCYN_A_gnl|BL_ORD_ID|939
                                                                                     --MVTDV
                                                                                                    EKISLNTSTI
Synechococcus_sp_PCC_7335_gnl|BL_ORD_ID|2340
Synechococcus_sp_JA_2_3B_a2_13_gnl|BL_ORD_ID|664
                                                                                     MSTSIS7
                                                                                     --MATET
Synechococcus_sp_JA_3_3Ab_gnl|BL_ORD_ID|2382
                                                                                        MATET
Cyanobium_sp_PCC_7001_gnl|BL_ORD_ID|1599
                                                                                     --SGAAV
Prochlorococcus_marinus_MIT_9303_gnl | BL_ORD_ID | 2351
Prochlorococcus_marinus_MIT_9313_gnl | BL_ORD_ID | 1789
                                                                                     P-GGAAV
                                                                                                             rer:
                                                                                       -GGAAV
                                                                                                             TER
Synechococcus_sp_RS9916_gnl|BL_ORD_ID|2779
                                                                                       -GGAAV
                                                                                                    וכו
                                                                                                             TERV
Prochlorococcus_marinus_SS120_gnl|BL_ORD_ID|1650
                                                                                     P-GGAAT
                                                                                                             TE
Prochlorococcus_marinus_marinus_CCMP1375_gnl|BL_ORD_ID|1651
                                                                                       -GGAAV
                                                                                                    DK
                                                                                                             TERV
Prochlorococcus_sp_CC9311_gnl|BL_ORD_ID|363
Prochlorococcus_sp_WH_7803_gnl|BL_ORD_ID|368
                                                                                       -GGAAV
                                                                                                    D
                                                                                                             TE
                                                                                       GGAAV
                                                                                                            PE
Synechococcus_WH_7803_gnl|BL_ORD_ID|368
                                                                                       -GG<mark>AAV</mark>
                                                                                                            PER
Synechococcus_WH_8102_gnl|BL_ORD_ID|2141
                                                                                       -GGAAV
                                                                                                            PERV
Synechococcus_sp_WH7805_gnl|BL_ORD_ID|875
                                                                                       -GGAAV
                                                                                                    DK
                                                                                                            PERV
Synechococcus_CC9605_gnl | BL_ORD_ID | 303
                                                                                       GGAA
                                                                                                    DKA
                                                                                                            PE
Synechococcus_sp_WH_8109_gnl|BL_ORD_ID|198
                                                                                       -GGAAV
                                                                                                            PE
Synechococcus_sp_BL107_gnl|BL_ORD_ID|1716
                                                                                       -GGAAT
Synechococcus_sp_CC9902_gnl|BL_ORD_ID|2014
                                                                                       -GGAAV
Synechococcus_sp_WH5701_gnl BL_ORD_ID 3138
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1996
Synechococcus_sp_CB0101_gnl | BL_ORD_ID | 2613
                                                                                       -GGG<mark>AV</mark>
                                                                                                    EKA
                                                                                                            -PERV
Synechococcus_sp_CB0205_gnl|BL_ORD_ID|783
                                                                                       -GGAAV
                                                                                                            PERV
Synechococcus_sp_WH5701_gnl BL_ORD_ID 1345
                                                                                       -GGAAV
                                                                                                    EKE
                                                                                                             VORV
Synechococcus_RCC307_gnl|BL_ORD_ID|2179
                                                                                     PGGGAAT
Prochlorococcus_marinus_AS9601_gnl | BL_ORD_ID | 1697
                                                                                       -NNSAV
                                                                                                            PAEI
                                                                                                    EKK
Prochlorococcus_marinus_MIT_9202_gnl|BL_ORD_ID|596
                                                                                        NGSAT
                                                                                                              AEI
Prochlorococcus_marinus_MIT_9312_gnl | BL_ORD_ID | 1590
                                                                                                            PAEL
Prochlorococcus_marinus_MIT_9215_gnl | BL_ORD_ID | 1760
Prochlorococcus_marinus_MIT_9301_gnl | BL_ORD_ID | 1690
Prochlorococcus_marinus_MED4_gnl | BL_ORD_ID | 1495
                                                                                       -<mark>NN</mark>AAV
Prochlorococcus_marinus_pastoris_CCMP1986_gnl | BL_ORD_ID | 1499
                                                                                       /AA<mark>NN</mark>-
Prochlorococcus_marinus_MIT_9515_gnl | BL_ORD_ID | 1677
Prochlorococcus_marinus_MIT_9211_gnl | BL_ORD_ID | 1621
                                                                                       NN<mark>AAV</mark>
                                                                                                    EK.
                                                                                                             TAAL
                                                                                       -GGATI
                                                                                                    EKO
                                                                                                             SELV
Prochlorococcus_marinus_NATL1A_gnl | BL_ORD_ID | 1932
                                                                                     D-GDTAV
                                                                                                    DRE
                                                                                                             VQRV
Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1886
                                                                                       -GDTAI
                                                                                                    DRE
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 745
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2530
                                                                                     --MSTET
                                                                                     TKTPLDP
Rhodopseudomonas_palustris_CGA009_gnl|BL_ORD_ID|1197
Rhodopseudomonas_palustris_CGA009_gnl | BL_ORD_ID | 3127
                                                                                     STPSTS<mark>V</mark>-
Escherichia_coli_UTI89_gnl|BL_ORD_ID|1000
                                                                                                              RDA
Streptomyces_avermitilis_MA_4680_gnl|BL_ORD_ID|5165
                                                                                     EIEKTES
                                                                                                    EEV
Streptomyces_avermitilis_MA_4680_gnl|BL_ORD_ID|5165
                                                                                     EIEKTES
                                                                                                    EEV
Chlorobium_tepidum_TLS_gnl|BL_ORD_ID|2204
                                                                                      SNNPDTR
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Acaryochloris marina MBIC11017 gnl BL ORD ID 3792
                                                                                   RKPYPNFKVI
                                                                                                 VVNDDVNTFE
Anabaena_variabilis_ATCC_29413_gnl|BL_ORD_ID|3450
                                                                                   RKSYPNYKVI
                                                                                                 VLNDDFNTF(
                                                                                   RKTY<mark>PNYK</mark>VI
RKTYPNYKVI
Nostoc_sp_PCC_7120_gnl|BL_ORD_ID|714
                                                                                                 VLNDDFNTF(
Nostoc_punctiforme_ATCC_29133_gnl|BL_ORD_ID|3650
Nostoc_punctiforme_PCC_73102_gnl|BL_ORD_ID|3650
                                                                                                 VLNDDFNTF
                                                                                   RKTYPNYKVI
                                                                                                 VLNDDFNTF(
Nodularia_spumigena_CCY9414_gnl|BL_ORD_ID|1770
                                                                                                 VLNDDFNTF
Arthrospira_platensis_NIES_39_gnl|BL_ORD_ID|1627
                                                                                   RKPYPNYKVI
                                                                                                 VLNDDFNTF(
Arthrospira_sp_PCC_8005_gnl|BL_ORD_ID|4151
                                                                                   RKPYPNYKVI
                                                                                                 VLNDDFNTFQ
Arthrospira_platensis_Paraca_gnl|BL_ORD_ID|2021
                                                                                   QQPYPNY<mark>K</mark>VI
Lyngbya_sp_CCY_8106_gnl|BL_ORD_ID|4005
                                                                                                 VLNDDFNTFE
Oscillatoria_sp_PCC_6506_gnl|BL_ORD_ID|1058
Cyanothece_PCC_7424_gnl|BL_ORD_ID|4383
Cyanothece_PCC_7822_gnl|BL_ORD_ID|206
Cyanothece_PCC_8801_gnl|BL_ORD_ID|1764
                                                                                    KPYPNYKVI
                                                                                                 VLNDDFNTF(
                                                                                   KKTYPNYKVI
KKTYPNYKVI
NKPYPNYKVI
NKPYPNYK
                                                                                                 VLNDDFNTFC
                                                                                                 VLNDDFNTFE
                                                                                                 VLNDDFNSFE
Cyanothece_PCC_8802_gnl|BL_ORD_ID|1739
                                                                                                 VLNDDFNSFE
                                                                                    KTYPNYKVI
Microcystis_aeruginosa_NIES_843_gnl|BL_ORD_ID|703
                                                                                                 VLNDDFNTFD
Cyanothece_sp_BH68_ATCC_51142_gnl|BL_ORD_ID|3651
                                                                                   RKPYPNYKVI
                                                                                                 VLNDDFNTFN
Cyanothece_sp_CCY_0110_gnl | BL_ORD_ID | 1780
                                                                                   <mark>RK</mark>PYPNYKVI
                                                                                                 VLNDDFNTFN
                                                                                   RKPYPNYKVI
Microcoleus_chthonoplastes_PCC_7420_gnl|BL_ORD_ID|3381
                                                                                                 VLDDDFNTFQ
                                                                                   RKPYPNYKVI
RKPYPNYKII
Cylindrospermopsis_raciborskii_CS_505_gnl|BL_ORD_ID|3110
                                                                                                 VLNDDFNTFE
Raphidiopsis_brookii_D9_gnl|BL_ORD_ID|516
                                                                                                 VLNDDFNTFE
Thermosynechococcus_elongatus_BP_1_gnl | BL_ORD_ID | 1087
                                                                                   RKHY<mark>PNYK</mark>VI
                                                                                                 VLNDDFNTFO
Synechocystis_sp_PCC_6803_gnl|BL_ORD_ID|1103
                                                                                   <mark>RKTYPNFK</mark>VI
RKPYPNFKVI
                                                                                                 VLNDDFNTFC
Synechococcus_sp_PCC_7002_gnl BL_ORD_ID 2207
                                                                                                  /LNDDFNTFE
Trichodesmium_erythraeum_IMS101_gnl|BL_ORD_ID|3325
                                                                                   NKPYPNYKVI
                                                                                                 VLNDDVNTFK
Synechococcus_sp_PCC_7335_gnl|BL_ORD_ID|2231
ClpS2_Synechococcus_7942_ClpS2
                                                                                                  MLNDDFNTFE
                                                                                    QPYPHF<mark>R</mark>VI
                                                                                                  VLDDDV<mark>NT</mark>F(
Synechococcus_elongatus_PCC_6301_gnl|BL_ORD_ID|1043
                                                                                   OPYPHFRVI
                                                                                                  VLDDDVNTF(
Synechococcus_elongatus_PCC_7942_gnl | BL_ORD_ID | 525
                                                                                   RQPYPHFRVI
                                                                                                 VLDDDVNTFQ
Cyanothece_PCC_7425_gnl|BL_ORD_ID|3769
Gloeobacter_violaceus_PCC_7421_gnl|BL_ORD_ID|2237
Cyanobium_sp_PCC_7001_gnl|BL_ORD_ID|377
                                                                                    OPYPHY<mark>K</mark>VI
                                                                                                 VLNDDFNTFE
Prochlorococcus_marinus_MIT_9303_gnl|BL_ORD_ID|1539
                                                                                   TQ<mark>R</mark>YPQARVI
TQRYPQARVI
                                                                                                 VLNDDVNTFC
Prochlorococcus_marinus_MIT_9313_gnl | BL_ORD_ID | 672
                                                                                                 VLNDDVNTF(
Synechococcus_CC9605_gnl|BL_ORD_ID|1418
                                                                                   TQ<mark>R</mark>YPQA<mark>R</mark>VI
                                                                                                 VLDDDVNTFQ
Synechococcus_sp_WH_8109_gnl|BL_ORD_ID|1922
Synechococcus_WH_8102_gnl|BL_ORD_ID|1299
                                                                                   TQ<mark>R</mark>YPQA<mark>R</mark>VI
                                                                                                 VLDDDVNTF(
                                                                                   TQ<mark>R</mark>YPQA<mark>R</mark>VI
                                                                                                 VLDDDVNTF(
Synechococcus_sp_BL107_gn1|BL_ORD_ID|90
                                                                                   rq<mark>r</mark>ypea<mark>k</mark>vi
                                                                                                 VLDDDVNTF(
                                                                                   TORYPEAKVI
TOGYPEARVI
Synechococcus_sp_CC9902_gnl|BL_ORD_ID|1044
                                                                                                 VLDDDDVNTF
Synechococcus_sp_RS9916_gnl | BL_ORD_ID | 1876
                                                                                                 VLNDDVNTF(
Prochlorococcus_sp_WH_7803_gn1|BL_ORD_ID|1209
                                                                                   A<mark>QR</mark>YPQA<mark>R</mark>VI
                                                                                                 VLNDDFNTFE
                                                                                                 VLNDDFNTFE
Synechococcus_WH_7803_gnl|BL_ORD_ID|1209
Synechococcus_sp_WH7805_gnl|BL_ORD_ID|1527
                                                                                                 VLNDDVNTFE
Synechococcus_sp_RS9917_gnl|BL_ORD_ID|1372
                                                                                    SDYPQARVI
                                                                                                 VLDDDVNTFQ
Prochlorococcus_sp_CC9311_gnl | BL_ORD_ID | 1389
                                                                                                 VLNDDVNTFE
Synechococcus_sp_WH5701_gnl|BL_ORD_ID|2187
                                                                                    ORYPHLRVV
                                                                                                 VLDDDVNTFQ
Synechococcus_RCC307_gnl|BL_ORD_ID|1407
                                                                                   RAPYPNFKVV
                                                                                                 VLNDEVNTFO
Synechococcus_sp_CB0101_gnl | BL_ORD_ID | 1488
                                                                                  DAPYPTGRVI
                                                                                                 VLDDDDHNTF
Synechococcus_sp_CB0205_gnl | BL_ORD_ID | 2119
Synechococcus_sp_JA_2_3B_a2_13_gnl | BL_ORD_ID | 2497
Synechococcus_sp_JA_3_3Ab_gnl | BL_ORD_ID | 1311
                                                                                   RAPYPTGRVI
                                                                                                 VLDDDHNTF(
                                                                                   <mark>R</mark>QPYPHF<mark>K</mark>VI
                                                                                                 VLDDDFNTFQ
                                                                                                 VLDDDFNTFQ
Cyanobacterium_sp_UCYN_A_gnl | BL_ORD_ID | 272
                                                                                   Y<mark>KP</mark>YPNCKII
                                                                                                 VLNDDFNTFD
Prochlorococcus_marinus_AS9601_gnl|BL_ORD_ID|997
                                                                                   (AKY<mark>PEAR</mark>VI
                                                                                                 VLDDNFNTFQ
Prochlorococcus_marinus_MIT_9301_gnl | BL_ORD_ID | 999
Prochlorococcus_marinus_MIT_9215_gnl | BL_ORD_ID | 1028
                                                                                    A<mark>K</mark>YPEARVI
                                                                                                 VLDDNFNTF
                                                                                   (AKYPEARVI
                                                                                                 VLDDSFNTFO
Prochlorococcus_marinus_MIT_9202_gnl | BL_ORD_ID | 1784
                                                                                   (AKYPEARVI
                                                                                                 VLDDSSNTFQ
Prochlorococcus_marinus_MIT_9312_gnl | BL_ORD_ID | 939
Prochlorococcus_marinus_MIT_9211_gnl | BL_ORD_ID | 1514
Prochlorococcus_marinus_SS120_gnl | BL_ORD_ID | 1551
                                                                                   V<mark>K</mark>YPEARVI
                                                                                                 VLDDSFNTFQ
                                                                                    KKYPEARII
                                                                                                 VLDDNFNTFE
                                                                                   KKK<mark>YPEAR</mark>II
                                                                                                 VLDDNFNTFE
Prochlorococcus_marinus_marinus_CCMP1375_gnl|BL_ORD_ID|1552
                                                                                                 VLDDNFNTFE
                                                                                    KKYPEARII
Prochlorococcus_marinus_NATL1A_gnl|BL_ORD_ID|1389
                                                                                    IKYPEARII
                                                                                    IK<mark>YPEAR</mark>II
Prochlorococcus_marinus_NATL2A_gnl|BL_ORD_ID|1348
                                                                                                 VLDDNFNTFE
Prochlorococcus_marinus_MED4_gnl|BL_ORD_ID|683
                                                                                    RKY<mark>PK</mark>ARII
                                                                                                 VLDDNFNTFE
                                                                                    RKY<mark>PK</mark>ARII
Prochlorococcus_marinus_pastoris_CCMP1986_gnl|BL_ORD_ID|684
                                                                                                 VLDDNFNTFE
Acaryochloris_marina_MBIC11017_gnl|BL_ORD_ID|5473
                                                                                     (LA<mark>PK</mark>YRVL
                                                                                                 LHNDDFNSME
Anabaena_variabilis_ATCC_29413_gnl|BL_ORD_ID|1891
                                                                                                 LHNDDYNSME
Nostoc_sp_PCC_7120_gnl|BL_ORD_ID|4631
                                                                                                 LHNDDHNSME
Nodularia_spumigena_CCY9414_gnl|BL_ORD_ID|2031
Nostoc_punctiforme_ATCC_29133_gnl|BL_ORD_ID|3476
Nostoc_punctiforme_PCC_73102_gnl|BL_ORD_ID|3476
                                                                                                 LHNDDYNSME
                                                                                   RKLAPRYRVL
RKLAPRYRVL
Arthrospira_platensis_NIES_39_gnl|BL_ORD_ID|6367
                                                                                                 LHNDDHNPME
                                                                                     (LA<mark>PR</mark>YRVI
                                                                                                  LHNDDHNPME
Arthrospira_platensis_Paraca_gnl|BL_ORD_ID|2792
Arthrospira_sp_PCC_8005_gnl|BL_ORD_ID|2801
                                                                                                 LHNDDYNPME
Cylindrospermopsis_raciborskii_CS_505_gnl|BL_ORD_ID|496
                                                                                                 LHNDDYNSME
Raphidiopsis_brookii_D9_gnl|BL_ORD_ID|1510
Lyngbya_sp_CCY_8106_gnl|BL_ORD_ID|3908
Microcoleus_chthonoplastes_PCC_7420_gnl|BL_ORD_ID|4785
                                                                                   RKHAPRYRVL LHNDDFNTME
Leptolyngbya_valderiana_BDU_20041_gnl|BL_ORD_ID|6
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Cyanothece_PCC_7425_gnl|BL_ORD_ID|3320
                                                                                                                  LHNDDVNSME
Oscillatoria sp PCC 6506 qnl|BL ORD ID|4778
                                                                                                                  LHNDDFNSME
Thermosynechococcus_elongatus_BP_1_gnl|BL_ORD_ID|210
Trichodesmium_erythraeum_IMS101_gnl|BL_ORD_ID|952
                                                                                                  RKLAPRYRVL
                                                                                                                  LHNDNVNSME
                                                                                                 RKTAPHYRVL
RKPAPRYRVL
                                                                                                                  LHNDDFNSME
Cyanothece_PCC_7424_gnl | BL_ORD_ID | 1601
Cyanothece_PCC_7822_gnl | BL_ORD_ID | 950
                                                                                                                  LHNDDFNSME
                                                                                                 RKP<mark>APRYR</mark>VL
RKPAPRYRVL
                                                                                                                  LHNDDFNSME
Cyanothece_PCC_8801_gnl | BL_ORD_ID | 1215
                                                                                                                  LHNDDFNSME
Cyanothece_PCC_8802_gnl | BL_ORD_ID | 1200
                                                                                                 RKPAPRYRVL
                                                                                                                  LHNDDFNSME
Cyanothece_sp_BH68_ATCC_51142_gnl | BL_ORD_ID | 2328
Cyanothece_sp_CCY_0110_gnl | BL_ORD_ID | 2487
                                                                                                 RKPAPRYRVL
                                                                                                                  LHNDDFNSME
                                                                                                 RKPAPRYRVL
                                                                                                                  LHNDDFNSME
Microcystis_aeruginosa_NIES_843_gnl|BL_ORD_ID|5244
                                                                                                                  LHNDDFNSME
Synechococcus_sp_PCC_7002_gnl | BL_ORD_ID | 2405
Synechocystis_sp_PCC_6803_gnl | BL_ORD_ID | 1854
ClpS1_Synechococcus_7942_ClpS1
                                                                                                 RKPAPRYRVL
                                                                                                                  LHNDDFNSME
                                                                                                  RKHAPRYRVL
                                                                                                                  LHNDDFNSME
                                                                                                 RKIA<mark>PR</mark>YRVL
                                                                                                                  LHNDDFNPME
                                                                                                 RKIAPRYRVL
RKIAPRYRVL
Synechococcus_elongatus_PCC_6301_gnl | BL_ORD_ID | 839
Synechococcus_elongatus_PCC_7942_gnl | BL_ORD_ID | 739
                                                                                                                  LHNDDFNPME
                                                                                                                  LHNDDFNPME
Cyanobacterium_sp_UCYN_A_gnl|BL_ORD_ID|939
                                                                                                  KKPVPRYKVL
                                                                                                                  LHNDDFNPMD
Synechococcus_sp_PCC_7335_gnl|BL_ORD_ID|2340
Synechococcus_sp_JA_2_3B_a2_13_gnl|BL_ORD_ID|664
                                                                                                   (IA<mark>PR</mark>YRVL
                                                                                                                  LHNDDFNSME
                                                                                                 PKHMPMYRVL
                                                                                                                  LHNDDVNTME
Synechococcus_sp_JA_3_3Ab_gnl|BL_ORD_ID|2382
                                                                                                 PKHMPMYRVL
                                                                                                                  LHNDDVNTME
Cyanobium_sp_PCC_7001_gnl|BL_ORD_ID|1599
                                                                                                 RKPSPRYKVL
                                                                                                                  LHNDPVNSME
Prochlorococcus_marinus_MIT_9303_gnl | BL_ORD_ID | 2351
Prochlorococcus_marinus_MIT_9313_gnl | BL_ORD_ID | 1789
Synechococcus_sp_RS9916_gnl | BL_ORD_ID | 2779
                                                                                                 RKQSPHYKVL
RKQSPHYKVL
                                                                                                                  LHNDPVNSME
LHNDPVNSME
                                                                                                 RKRSPRYKVL
RKTSPRYKVL
RKTSPRYKVL
                                                                                                                  LHNDPVNSME
Prochlorococcus_marinus_SS120_gnl|BL_ORD_ID|1650
                                                                                                                  LHNDPVNTMD
Prochlorococcus_marinus_marinus_CCMP1375_gnl|BL_ORD_ID|1651
Prochlorococcus_sp_CC9311_gnl|BL_ORD_ID|363
Prochlorococcus_sp_WH_7803_gnl|BL_ORD_ID|368
                                                                                                                  LHNDPVNTMD
                                                                                                 RKTSPRYKVL
RKQSPRYKVL
                                                                                                                  LHNDPVNSME
LHNDPVNSME
Synechococcus_WH_7803_gnl|BL_ORD_ID|368
                                                                                                 RK<mark>QSPR</mark>YKVL
                                                                                                                  LHNDPVNSME
                                                                                                 RKQSPRYKVL
RKQSPRYKVL
RKRSPRYKVL
Synechococcus_WH_8102_gnl|BL_ORD_ID|2141
                                                                                                                  LHNDPVNTME
Synechococcus_sp_WH7805_gnl|BL_ORD_ID|875
                                                                                                                  LHNDPVNSME
Synechococcus_CC9605_gnl|BL_ORD_ID|303
                                                                                                                  LHNDPVNSME
                                                                                                 RKRSPRYKVL
RKRSPRYKVL
                                                                                                                  LHNDPVNSME
Synechococcus_sp_WH_8109_gnl|BL_ORD_ID|198
Synechococcus_sp_BL107_gnl|BL_ORD_ID|1716
                                                                                                                  LHNDPVNSME
Synechococcus_sp_CC9902_gnl|BL_ORD_ID|2014
                                                                                                 RKR<mark>SPR</mark>YKVL
                                                                                                                  LHNDPVNSME
Synechococcus_sp_WH5701_gnl BL_ORD_ID 3138
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1996
                                                                                                                  LHNDPVNSME
LHNDPVNTME
                                                                                                  ----<u>ML</u>
                                                                                                 RKHSPRYKVL
Synechococcus_sp_CB0101_gnl | BL_ORD_ID | 2613
                                                                                                 RKP<mark>S</mark>PRYKVL
                                                                                                                  LHNDPVNTME
                                                                                                 RKPSPRYKVL
RKPSPRYRVL
RKPSPRYRVL
Synechococcus_sp_CB0205_gnl | BL_ORD_ID | 783
                                                                                                                  LHNDPVNTME
Synechococcus_sp_WH5701_gnl BL_ORD_ID 1345
                                                                                                                  LHNDPVNSME
Synechococcus_RCC307_gnl|BL_ORD_ID|2179
Prochlorococcus_marinus_AS9601_gnl|BL_ORD_ID|1697
                                                                                                                  LHNDPVNSME
                                                                                                 KNKSPKYKVL
KNKSPKYKVL
                                                                                                                  LHNDPVNSME
Prochlorococcus_marinus_MIT_9202_gnl | BL_ORD_ID | 596
Prochlorococcus_marinus_MIT_9312_gnl | BL_ORD_ID | 1590
Prochlorococcus_marinus_MIT_9315_gnl | BL_ORD_ID | 1760
Prochlorococcus_marinus_MIT_9301_gnl | BL_ORD_ID | 1690
Prochlorococcus_marinus_MED4_gnl | BL_ORD_ID | 1495
                                                                                                                  LHNDPVNSME
                                                                                                  KNKSPKYRVL
                                                                                                                  LHNDPVNSME
                                                                                                  KNKSPKYKVL
                                                                                                                  LHNDPVNSME
                                                                                                 KNKSPKYKVL
                                                                                                                  LHNDPVNSME
                                                                                                 KNKSPKYKVL
KNKSPKYKVL
KNKSPKYKVL
RKRSPRYKVL
RKISPKYKVL
RKISPKYKVL
Prochlorococcus_marinus_pastoris_CCMP1986_gnl|BL_ORD_ID|1499
                                                                                                                  LHNDPVNSME
Prochlorococcus_marinus_MIT_9515_gnl | BL_ORD_ID | 1677
Prochlorococcus_marinus_MIT_9211_gnl | BL_ORD_ID | 1621
                                                                                                                  LHNDPVNSME
                                                                                                                  LHNDPVNSMD
                                                                                                                  LHNDPVNTMD
Prochlorococcus_marinus_NATL1A_gnl|BL_ORD_ID|1932
Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1886
                                                                                                                  LHNDPVNTMD
                                                                                                  KPMPLYKVL
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 745
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2530
                                                                                                                  LHNDDHTPMN
                                                                                                 PLRWRDWVVR
----MI
                                                                                                                  LFNDPVNKFE
Rhodopseudomonas_palustris_CGA009_gnl|BL_ORD_ID|1197
                                                                                                                  LVNDDYTPRE
                                                                                                 T<mark>KR</mark>PNLY<mark>R</mark>VL
Rhodopseudomonas_palustris_CGA009_gnl BL_ORD_ID 3127
                                                                                                                  ILNDDYTPME
                                                                                                 L<mark>KPPSMYK</mark>VI
Escherichia_coli_UTI89_gnl|BL_ORD_ID|1000
                                                                                                                  LVNDDYTPME
Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165
Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165
Chlorobium_tepidum_TLS_gnl BL_ORD_ID 2204
                                                                                                 PEPDVPWVTI
                                                                                                                  VHNDPVNLMS
                                                                                                 PEPDVPWVTI VHNDPVNLMS
VDTLDAWRVV LFNDDDHTFD
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Acaryochloris marina MBIC11017 qnl | BL ORD ID | 3792
                                                                                            HVAKTLMTYI PHMTSDKAWE
Anabaena_variabilis_ATCC_29413_gnl|BL_ORD_ID|3450
                                                                                            HVAECLVKYI PGMTGDLAWD
                                                                                            HVAECLV<mark>K</mark>YI
HVAECLM<mark>K</mark>YI
                                                                                                            PGMTGDLAWD
PGMSGD<mark>R</mark>AWD
Nostoc_sp_PCC_7120_gnl|BL_ORD_ID|714
Nostoc_punctiforme_ATCC_29133_gnl|BL_ORD_ID|3650
Nostoc_punctiforme_PCC_73102_gnl|BL_ORD_ID|3650
                                                                                            HVAECLMKYI PGMSGDRAWD
HVSECLMKYI PGMTGDRAWD
Nodularia_spumigena_CCY9414_gnl|BL_ORD_ID|1770
                                                                                            HVA<mark>N</mark>CLM<mark>K</mark>YL
Arthrospira_platensis_NIES_39_gnl|BL_ORD_ID|1627
                                                                                                            PGMTSDQAWE
Arthrospira_sp_PCC_8005_gnl|BL_ORD_ID|4151
                                                                                            HVANCLMKYL PGMTSDQAWE
Arthrospira_platensis_Paraca_gnl|BL_ORD_ID|2021
                                                                                                            --MTSDQAWE
                                                                                            HV<mark>SS</mark>CLM<mark>K</mark>YI
Lyngbya_sp_CCY_8106_gnl|BL_ORD_ID|4005
                                                                                                            PGMNSDLAWK
Oscillatoria_sp_PCC_6506_gnl|BL_ORD_ID|1058
Cyanothece_PCC_7424_gnl|BL_ORD_ID|4383
Cyanothece_PCC_7822_gnl|BL_ORD_ID|206
Cyanothece_PCC_8801_gnl|BL_ORD_ID|1764
                                                                                            HVSECLVKYI PGMTSDRAWK
                                                                                            HVA<mark>NCLMK</mark>YI
HVA<mark>K</mark>CLM<mark>K</mark>YI
                                                                                                            PGMTSDRAWE
                                                                                                            PGMTSDRAWE
                                                                                            HVA<mark>K</mark>CLMTYI
HVA<mark>KC</mark>LMTYI
                                                                                                           PGMTSDRAWE
Cyanothece_PCC_8802_gnl|BL_ORD_ID|1739
                                                                                                            PGMTSDRAWE
                                                                                            HVANCLIKYI PDMTTDRAWE
Microcystis_aeruginosa_NIES_843_gnl|BL_ORD_ID|703
Cyanothece_sp_BH68_ATCC_51142_gnl|BL_ORD_ID|3651
                                                                                            HVANCLMKYI
                                                                                                            PGMSSDRAWE
Cyanothece_sp_CCY_0110_gnl|BL_ORD_ID|1780
                                                                                            HVA<mark>N</mark>CLM<mark>K</mark>YI
                                                                                                            PGMSSDRAWE
Microcoleus_chthonoplastes_PCC_7420_gnl|BL_ORD_ID|3381
                                                                                            HVHDCLV<mark>K</mark>YI <mark>PGMSS</mark>DYAW<mark>K</mark>
                                                                                            HVAKSLMKYI PGMTTEQAWE
Cylindrospermopsis_raciborskii_CS_505_gnl|BL_ORD_ID|3110
                                                                                            HVA<mark>K</mark>SLM<mark>K</mark>YI
HVAACLM<mark>K</mark>YI
Raphidiopsis_brookii_D9_gnl|BL_ORD_ID|516
                                                                                                            PGMTTEQAWE
                                                                                                            PNMTSDRAWE
Thermosynechococcus_elongatus_BP_1_gnl | BL_ORD_ID | 1087
Synechocystis_sp_PCC_6803_gnl|BL_ORD_ID|1103
                                                                                            HVSDCLL<mark>K</mark>YI
                                                                                                            PGMTGDRAWE
Synechococcus_sp_PCC_7002_gnl BL_ORD_ID 2207
                                                                                            HVAHCLMTYI
                                                                                                            PNMTADQAWN
                                                                                            HVAECLOKYI PGMTSDRAWE
Trichodesmium_erythraeum_IMS101_gnl|BL_ORD_ID|3325
                                                                                            HVV<mark>K</mark>TLTTYI
HVAECLL<mark>K</mark>YI
Synechococcus_sp_PCC_7335_gnl|BL_ORD_ID|2231
ClpS2_Synechococcus_7942_ClpS2
                                                                                                            PGMNSDQAWE
                                                                                                            PGMTGDRAWD
                                                                                            HVAECLLKYI PGMTGDRAWD
Synechococcus_elongatus_PCC_6301_gnl|BL_ORD_ID|1043
Synechococcus_elongatus_PCC_7942_gnl | BL_ORD_ID | 525
                                                                                            HVAECLLKYI PGMTGDRAWD
Cyanothece_PCC_7425_gnl|BL_ORD_ID|3769
Gloeobacter_violaceus_PCC_7421_gnl|BL_ORD_ID|2237
Cyanobium_sp_PCC_7001_gnl|BL_ORD_ID|377
                                                                                            HVA<mark>K</mark>CLM<mark>K</mark>YI <mark>PNMTSDR</mark>AWE
Prochlorococcus_marinus_MIT_9303_gnl|BL_ORD_ID|1539
                                                                                            HVVDCLRRII
                                                                                                            PGMSEERAWN
Prochlorococcus_marinus_MIT_9313_gnl | BL_ORD_ID | 672
                                                                                            HVVDCLRRII PGMSEERAWN
                                                                                            HVVDCL<mark>RK</mark>II PGMSEDNAWN
Synechococcus_CC9605_gnl|BL_ORD_ID|1418
Synechococcus_sp_WH_8109_gnl|BL_ORD_ID|1922
Synechococcus_WH_8102_gnl|BL_ORD_ID|1299
                                                                                                            PGMSEDNAWN
                                                                                            HVVDCLRKII
                                                                                            HVVDCL<mark>RK</mark>II PGMSEEKAWS
                                                                                            HVVDCLRKII PGMDEDKAWG
Synechococcus_sp_BL107_gn1|BL_ORD_ID|90
                                                                                            HVVDCLRKII PGMDEEKAWG
HVVDCLCKII PGMGTERAWD
Synechococcus_sp_CC9902_gnl|BL_ORD_ID|1044
Synechococcus_sp_RS9916_gnl | BL_ORD_ID | 1876
Prochlorococcus_sp_WH_7803_gnl|BL_ORD_ID|1209
                                                                                            HVVE<mark>SLCR</mark>II
                                                                                                            PGMNTEKAWS
                                                                                            HVVESLC<mark>R</mark>II <mark>PGMNTEK</mark>AWS
HVVESLC<mark>R</mark>II <mark>PGMNTDK</mark>AWA
Synechococcus_WH_7803_gnl|BL_ORD_ID|1209
Synechococcus_sp_WH7805_gnl|BL_ORD_ID|1527
                                                                                            HVVDCLCRII <mark>PGMGS</mark>ERAWD
HVVECLC<mark>K</mark>II <mark>PGMNS</mark>DKAWT
Synechococcus_sp_RS9917_gnl|BL_ORD_ID|1372
Prochlorococcus_sp_CC9311_gnl | BL_ORD_ID | 1389
                                                                                            HVVNCLVRYL PGMGPDRAWE
HVVDCLVKYI PAMDPDRAWS
Synechococcus_sp_WH5701_gnl|BL_ORD_ID|2187
Synechococcus_RCC307_gnl|BL_ORD_ID|1407
                                                                                            HVVECLVRII FAMDFDRAWS
HVVEVLVRHI PAMVSDRAWE
HVTECLLKYI PGMTLPLARQ
HVTECLLKYI PGMTLPLARO
Synechococcus_sp_CB0101_gnl | BL_ORD_ID | 1488
Synechococcus_sp_JA_2_3B_a2_13_gnl | BL_ORD_ID | 2497
Synechococcus_sp_JA_3_3Ab_gnl | BL_ORD_ID | 1311
                                                                                            HVANCLI<mark>R</mark>YI <mark>PAMTK</mark>SHAWE
Cyanobacterium_sp_UCYN_A_gnl | BL_ORD_ID | 272
Prochlorococcus_marinus_AS9601_gnl|BL_ORD_ID|997
                                                                                            HVANCLLTII PSMSEQ<mark>R</mark>AWD
Prochlorococcus_marinus_MIT_9301_gnl | BL_ORD_ID | 999
Prochlorococcus_marinus_MIT_9215_gnl | BL_ORD_ID | 1028
                                                                                                            PSMSEQRAWD
                                                                                            HVA<mark>N</mark>CLL<mark>T</mark>II
                                                                                            YVANCLLTII <mark>PSMSERR</mark>ARD
Prochlorococcus_marinus_MIT_9202_gnl | BL_ORD_ID | 1784
                                                                                            HVAYCFLTII PSMSERRAWN
Prochlorococcus_marinus_MIT_9312_gnl | BL_ORD_ID | 939
Prochlorococcus_marinus_MIT_9211_gnl | BL_ORD_ID | 1514
Prochlorococcus_marinus_SS120_gnl | BL_ORD_ID | 1551
                                                                                            HVANCLLIII PGMSENRAWD
                                                                                            HVANCLVTII PGMSEKRSWV
                                                                                            HVA<mark>N</mark>CLA<mark>T</mark>II
                                                                                                            PGMSEKRSWV
                                                                                            HVA<mark>N</mark>CLA<mark>T</mark>II
Prochlorococcus_marinus_marinus_CCMP1375_gnl|BL_ORD_ID|1552
                                                                                                           PGMSEKRSWV
Prochlorococcus_marinus_NATL1A_gnl|BL_ORD_ID|1389
                                                                                            HVANCLVTII PGMSEKRSWE
                                                                                            HVA<mark>NC</mark>LV<mark>T</mark>II
Prochlorococcus_marinus_NATL2A_gnl|BL_ORD_ID|1348
                                                                                                            PGMSEKRSWE
Prochlorococcus_marinus_MED4_gnl|BL_ORD_ID|683
                                                                                            HVA<mark>NC</mark>LV<mark>RT</mark>I
                                                                                                            PGISEKNHYY
{\tt Prochlorococcus\_marinus\_pastoris\_CCMP1986\_gnl\,|\,BL\_ORD\_ID\,|\,684}
                                                                                            HVA<mark>NC</mark>LV<mark>RT</mark>I
                                                                                                            PGISEKNHYY
Acaryochloris_marina_MBIC11017_gnl|BL_ORD_ID|5473
                                                                                            HVV<mark>Q</mark>VLI<mark>QT</mark>V
                                                                                                            PNLTQPQAVS
                                                                                            YVV<mark>Q</mark>VLI<mark>TT</mark>V
Anabaena_variabilis_ATCC_29413_gnl|BL_ORD_ID|1891
                                                                                                            PSLTQPQAVS
                                                                                            YVV<mark>Q</mark>VLI<mark>TT</mark>V
Nostoc_sp_PCC_7120_gnl|BL_ORD_ID|4631
                                                                                                            PSLTQPQAVS
                                                                                                            PSLTQPQAVS
Nodularia_spumigena_CCY9414_gnl|BL_ORD_ID|2031
                                                                                            HVV<mark>QS</mark>LI<mark>TT</mark>V
Nostoc_punctiforme_ATCC_29133_gnl|BL_ORD_ID|3476
Nostoc_punctiforme_PCC_73102_gnl|BL_ORD_ID|3476
                                                                                            HVV<mark>QS</mark>LIA<mark>T</mark>V
                                                                                                            PSLTQPQAVS
                                                                                            HVVQSLIA<mark>TV PSLTQP</mark>QAVS
Arthrospira_platensis_NIES_39_gnl|BL_ORD_ID|6367
                                                                                            YVV<mark>Q</mark>VLM<mark>ST</mark>V
                                                                                                            PGLTQPQAVS
                                                                                                            PGLTQPQAVS
Arthrospira_platensis_Paraca_gnl|BL_ORD_ID|2792
                                                                                            YVV<mark>Q</mark>VLM<mark>ST</mark>V
Arthrospira_sp_PCC_8005_gnl|BL_ORD_ID|2801
                                                                                            YVV<mark>Q</mark>VLM<mark>ST</mark>V
                                                                                                            PGLTQPQAVS
Cylindrospermopsis_raciborskii_CS_505_gnl|BL_ORD_ID|496
                                                                                             YVV<mark>QVLLSTI PSLTQPQ</mark>AVS
                                                                                            YVV<mark>Q</mark>VLLSTI <mark>P</mark>SLTQ<mark>P</mark>QAV<mark>T</mark>
Raphidiopsis_brookii_D9_gnl|BL_ORD_ID|1510
Lyngbya_sp_CCY_8106_gnl|BL_ORD_ID|3908
Microcoleus_chthonoplastes_PCC_7420_gnl|BL_ORD_ID|4785
                                                                                            YVV<mark>Q</mark>VLL<mark>QTV P</mark>SLTQ<mark>PQAV</mark>S
                                                                                             YVV<mark>Q</mark>ALI<mark>QT</mark>V
                                                                                                            PSLTQPQAVN
                                                                                            YVVQTLV<mark>K</mark>TV PGLTQPQAVS
Leptolyngbya_valderiana_BDU_20041_gnl|BL_ORD_ID|6
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Cyanothece_PCC_7425_gnl|BL_ORD_ID|3320
                                                                                                          HVV<mark>E</mark>VLL<mark>K</mark>TV
                                                                                                                           PSLTQPQAVD
Oscillatoria sp PCC 6506 qnl|BL ORD ID|4778
                                                                                                         YVV<mark>OT</mark>LMH<mark>T</mark>V
                                                                                                                           PSLTOPOAVN
Thermosynechococcus_elongatus_BP_1_gnl | BL_ORD_ID | 210 Trichodesmium_erythraeum_IMS101_gnl | BL_ORD_ID | 952
                                                                                                         YVVEVLL<mark>K</mark>TV
                                                                                                                           PSLTQPQAVD
                                                                                                         YVV<mark>QT</mark>LM<mark>K</mark>TV
                                                                                                                           PSLTQPQAVN
Cyanothece_PCC_7424_gnl | BL_ORD_ID | 1601
Cyanothece_PCC_7822_gnl | BL_ORD_ID | 950
                                                                                                                           A<mark>GMTQPQAVN</mark>
                                                                                                         YVV<mark>QT</mark>LM<mark>K</mark>TV
                                                                                                         YVV<mark>QT</mark>LM<mark>K</mark>TV
                                                                                                                           AGMTQPQAVN
                                                                                                                           AGMTQPQAVD
Cyanothece_PCC_8801_gnl | BL_ORD_ID | 1215
                                                                                                         YVV<mark>QT</mark>LM<mark>QT</mark>V
Cyanothece_PCC_8802_gnl | BL_ORD_ID | 1200
                                                                                                         YVV<mark>QT</mark>LM<mark>QT</mark>V
                                                                                                                           AGMTQPQAVD
Cyanothece_sp_BH68_ATCC_51142_gnl | BL_ORD_ID | 2328
Cyanothece_sp_CCY_0110_gnl | BL_ORD_ID | 2487
                                                                                                          YVV<mark>QT</mark>LM<mark>QT</mark>V
                                                                                                                           SGMTQPQAVD
                                                                                                                           SGMTQPQAVD
                                                                                                         YVV<mark>QT</mark>LM<mark>QT</mark>V
                                                                                                         YVVOSLMOTI
Microcystis_aeruginosa_NIES_843_gnl|BL_ORD_ID|5244
                                                                                                                           AGMTOPOAVD
Synechococcus_sp_PCC_7002_gnl | BL_ORD_ID | 2405
Synechocystis_sp_PCC_6803_gnl | BL_ORD_ID | 1854
ClpS1_Synechococcus_7942_ClpS1
                                                                                                         HVV<mark>QT</mark>LM<mark>QT</mark>V
                                                                                                                           AGLTQPQAVS
                                                                                                         HVVQTLIQTV
                                                                                                                           AGMTQPQAVD
                                                                                                                           PSLTQPQAVD
                                                                                                         YVVMVLM<mark>QT</mark>V
Synechococcus_elongatus_PCC_6301_gnl | BL_ORD_ID | 839
Synechococcus_elongatus_PCC_7942_gnl | BL_ORD_ID | 739
                                                                                                         YVVMVLM<mark>QT</mark>V
                                                                                                                           PSLTQPQAVD
                                                                                                         YVVMVLM<mark>QT</mark>V
                                                                                                                           PSLTQPQAVD
Cyanobacterium_sp_UCYN_A_gnl|BL_ORD_ID|939
                                                                                                         YVVQILMQTI
                                                                                                                           SGMTRPQAAE
Synechococcus_sp_PCC_7335_gnl|BL_ORD_ID|2340
Synechococcus_sp_JA_2_3B_a2_13_gnl|BL_ORD_ID|664
                                                                                                         YVV<mark>Q</mark>VLV<mark>K</mark>VI
YVV
                                                                                                                           PSLTAPQAID
                                                                                                                           PAMMPPQATE
Synechococcus_sp_JA_3_3Ab_gnl|BL_ORD_ID|2382
                                                                                                         YVV<mark>Q</mark>VL<mark>VK</mark>VI
                                                                                                                           PSMLPPOATE
                                                                                                         YVV<mark>TT</mark>L<mark>R</mark>QVV
Cyanobium_sp_PCC_7001_gnl|BL_ORD_ID|1599
                                                                                                                           PSLSEQDAIA
Prochlorococcus_marinus_MIT_9303_gnl | BL_ORD_ID | 2351
Prochlorococcus_marinus_MIT_9313_gnl | BL_ORD_ID | 1789
                                                                                                         YVVV<mark>T</mark>L<mark>QQ</mark>VV
                                                                                                                           PQLSEQDAMA
                                                                                                         YVVV<mark>T</mark>L<mark>QQ</mark>VV
                                                                                                                           PQLSEQDAMA
Synechococcus_sp_RS9916_gnl|BL_ORD_ID|2779
                                                                                                         YVVSTLQQVV
                                                                                                                           PQLSEQDAMA
Prochlorococcus_marinus_SS120_gnl|BL_ORD_ID|1650
                                                                                                         YVV<mark>TTL<mark>R</mark>OVV POLSEODAMA</mark>
Prochlorococcus_marinus_marinus_CCMP1375_gnl|BL_ORD_ID|1651
                                                                                                         YVVTTL<mark>R</mark>QVV <mark>PQLSEQD</mark>AMA
Prochlorococcus_sp_CC9311_gnl|BL_ORD_ID|363
Prochlorococcus_sp_WH_7803_gnl|BL_ORD_ID|368
                                                                                                          YVVV<mark>T</mark>LQQ</mark>VV
                                                                                                                           POLSEODAMA
                                                                                                         YVV<mark>STL<mark>R</mark>QVV</mark>
                                                                                                                           POLSEQDAMA
Synechococcus_WH_7803_gnl|BL_ORD_ID|368
                                                                                                         YVV<mark>STLR</mark>QVV <mark>PQLSEQD</mark>AMA
Synechococcus_WH_8102_gnl|BL_ORD_ID|2141
                                                                                                         YVV<mark>TTLR</mark>QVV <mark>PQLSEQD</mark>AMA
Synechococcus_sp_WH7805_gnl|BL_ORD_ID|875
                                                                                                         YVV<mark>ST</mark>L<mark>R</mark>QVV
                                                                                                                           PQLSEQDAMA.
Synechococcus_CC9605_gnl|BL_ORD_ID|303
                                                                                                         YVVA<mark>T</mark>L<mark>QQ</mark>VV
                                                                                                                           PQLSEQDCMA
Synechococcus_sp_WH_8109_gnl|BL_ORD_ID|198
                                                                                                         YVVA<mark>T</mark>L<mark>QQ</mark>VV
                                                                                                                           PQLSEQDCMA
Synechococcus_sp_BL107_gnl|BL_ORD_ID|1716
                                                                                                         YVMA<mark>TLR</mark>QVV <mark>PQLSEQD</mark>AMA
Synechococcus_sp_CC9902_gnl|BL_ORD_ID|2014
                                                                                                         YVMTTL<mark>R</mark>QVV PQLSEQDAMA
Synechococcus_sp_WH5701_gnl BL_ORD_ID 3138
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1996
                                                                                                         YVMA<mark>T</mark>L<mark>R</mark>QVV
                                                                                                                           PQLSEQDAMA
                                                                                                         YVV<mark>TT</mark>L<mark>R</mark>QVV
                                                                                                                           POLSEODAMA
Synechococcus_sp_CB0101_gnl | BL_ORD_ID | 2613
                                                                                                         YVV<mark>GTL</mark>RQVV
                                                                                                                           PSLSEODAIA
Synechococcus_sp_CB0205_gnl|BL_ORD_ID|783
                                                                                                         YVV<mark>STLR</mark>QVV <mark>PSLSEQD</mark>AIA
                                                                                                                           PSLSEQDAIA
Synechococcus_sp_WH5701_gnl BL_ORD_ID 1345
                                                                                                         YVVTTL<mark>R</mark>QVV
Synechococcus_RCC307_gnl|BL_ORD_ID|2179
Prochlorococcus_marinus_AS9601_gnl|BL_ORD_ID|1697
                                                                                                         YVVTSL<mark>RE</mark>VV
                                                                                                                           PSLSEQDAMA
                                                                                                         YVTISL<mark>RE</mark>VV
                                                                                                                           PQLSEQDAIA
Prochlorococcus_marinus_MIT_9202_gnl|BL_ORD_ID|596
                                                                                                         YV<mark>TISLREVV PQLSEQD</mark>AIA
Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1590
Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1760
Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 1690
Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1495
                                                                                                         YVTISL<mark>R</mark>EVV <mark>PQLSEQD</mark>AIA
                                                                                                         YVTISL<mark>RE</mark>VV
                                                                                                                           PQLSEQDAIA
                                                                                                         YV<mark>T</mark>ISL<mark>RE</mark>VV
                                                                                                                           POLSEODAIA
                                                                                                         YV<mark>TN</mark>AL<mark>RE</mark>VV
                                                                                                                           POLSEODAIS
Prochlorococcus_marinus_pastoris_CCMP1986_gnl | BL_ORD_ID | 1499
                                                                                                         YVTNALREVV
                                                                                                                           PQLSEQDAIS
Prochlorococcus_marinus_MIT_9515_gnl | BL_ORD_ID | 1677
Prochlorococcus_marinus_MIT_9211_gnl | BL_ORD_ID | 1621
                                                                                                         YI<mark>T</mark>IAL<mark>RE</mark>VV
                                                                                                                           POLSEODAIA
                                                                                                         YVV<mark>TTL</mark>RQVV
                                                                                                                           POLSEODALA
Prochlorococcus_marinus_NATL1A_gnl|BL_ORD_ID|1932
                                                                                                         YVVDTLRQVV
                                                                                                                           POLSEODALN
                                                                                                         YVVEIL<mark>R</mark>QVV
Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1886
                                                                                                                           POLSEODALN
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 745
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2530
                                                                                                                           PKMQPSKAR
                                                                                                         YVIEVLMKTI
                                                                                                         HVVESLCKHV PGMSQDMAWS
FVVSVLKGEF -RMTEDQATK
FVVHVLEKFF -QMDVEAATK
Rhodopseudomonas_palustris_CGA009_gnl|BL_ORD_ID|1197
Rhodopseudomonas_palustris_CGA009_gnl BL_ORD_ID 3127
Escherichia_coli_UTI89_gnl|BL_ORD_ID|1000
                                                                                                         FVI<mark>D</mark>VL<mark>QK</mark>FF
                                                                                                                           -SYDVERATQ
                                                                                                         YVTYVFQTYF -GYSKDKATK
YVTYVFQTYF -GYSKDKATK
EVIFQIIKAV -RCTRSIAEK
Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165
Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165
Chlorobium_tepidum_TLS_gnl BL_ORD_ID 2204
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LTNQIHF<mark>EG</mark>Q AIVWV<mark>GP</mark>QEQ
Acaryochloris marina MBIC11017 gnl BL ORD ID 3792
Anabaena_variabilis_ATCC_29413_gnl|BL_ORD_ID|3450
                                                                                        LTNQVHYEGQ AIVWVGPQEP
Nostoc_sp_PCC_7120_gnl|BL_ORD_ID|714
                                                                                        LTNQVHY<mark>EG</mark>Q
                                                                                                        AIVWVGPQEP
Nostoc_punctiforme_ATCC_29133_gnl|BL_ORD_ID|3650
Nostoc_punctiforme_PCC_73102_gnl|BL_ORD_ID|3650
                                                                                                        AIVWVGPQEP
                                                                                        LTNQVHYEGQ
                                                                                        LTNQVHYEGQ
                                                                                                        AIVWVGPQEP
Nodularia_spumigena_CCY9414_gnl|BL_ORD_ID|1770
                                                                                                        AIVWV<mark>GPQE</mark>M
                                                                                        LTNQIHY<mark>EG</mark>Q
                                                                                        LTNRVHYEGO ATVWVGPLEO
LTNRVHYEGO ATVWVGPLEO
LTNRVHYEGO ATVWVGPLEO
LTNQVHFEGO ATVWVGPLEO
Arthrospira_platensis_NIES_39_gnl|BL_ORD_ID|1627
Arthrospira_sp_PCC_8005_gnl|BL_ORD_ID|4151
Arthrospira_platensis_Paraca_gnl|BL_ORD_ID|2021
Lyngbya_sp_CCY_8106_gnl|BL_ORD_ID|4005
Oscillatoria_sp_PCC_6506_gnl|BL_ORD_ID|1058
Cyanothece_PCC_7424_gnl|BL_ORD_ID|4383
Cyanothece_PCC_7822_gnl|BL_ORD_ID|206
Cyanothece_PCC_8801_gnl|BL_ORD_ID|1764
                                                                                        LTNQVHY<mark>EG</mark>Q ATVWV<mark>GP</mark>QEQ
                                                                                        LTNQVHY<mark>EG</mark>Q
LTNQVHF<mark>EG</mark>Q
                                                                                                        ATVWVGPQEQ
                                                                                                        AIVWV<mark>GPQEQ</mark>
                                                                                                       ATVWVGPQEQ
ATVWVGPQEQ
                                                                                        LTNQVHF<mark>EG</mark>Q
                                                                                         LTNQVHFEGQ
Cyanothece_PCC_8802_gnl|BL_ORD_ID|1739
                                                                                        LTNOVHYOGO
LTEOVHFEGL
LTEOVHFEGL
                                                                                                        AIVWTGPQEQ
Microcystis_aeruginosa_NIES_843_gnl|BL_ORD_ID|703
Cyanothece_sp_BH68_ATCC_51142_gnl|BL_ORD_ID|3651
                                                                                                        AIVWTGPQEQ
Cyanothece_sp_CCY_0110_gnl|BL_ORD_ID|1780
                                                                                                        AIVWTGPQEQ
                                                                                        LTNQVHFEGQ
Microcoleus_chthonoplastes_PCC_7420_gnl|BL_ORD_ID|3381
                                                                                                        AIVWVGPQEQ
Cylindrospermopsis_raciborskii_CS_505_gnl|BL_ORD_ID|3110
                                                                                        LTNQVHYEGQ AIVWVGPQEQ
                                                                                        LTNQVHYEGQ
                                                                                                        AIVWVGPQEQ
Raphidiopsis_brookii_D9_gnl|BL_ORD_ID|516
                                                                                        LTNQVHY<mark>EG</mark>Q
LTNQVHFDGL
                                                                                                       AIVWVGPQEQ
AIVWVGPQEQ
Thermosynechococcus_elongatus_BP_1_gnl | BL_ORD_ID | 1087
Synechocystis_sp_PCC_6803_gnl|BL_ORD_ID|1103
Synechococcus_sp_PCC_7002_gnl BL_ORD_ID 2207
                                                                                                        AIVWVGPQEP
                                                                                        LTNOVHFDGO
Trichodesmium_erythraeum_IMS101_gnl|BL_ORD_ID|3325
                                                                                        LTYQVHNEGQ AIVWVGPLEQ
Synechococcus_sp_PCC_7335_gnl|BL_ORD_ID|2231
ClpS2_Synechococcus_7942_ClpS2
                                                                                        LADQIH<mark>NEG</mark>Q
LTNQVHY<mark>EG</mark>A
                                                                                                        AIVWTGPLEQ
                                                                                                        ATVWSGPQEQ
                                                                                        LTNQVHY<mark>EG</mark>A
Synechococcus_elongatus_PCC_6301_gnl|BL_ORD_ID|1043
                                                                                                        ATVWSGPQEQ
                                                                                        LTNOVHYEGA ATVWSGPOEO
LTYOVDREGO AIVWVGPOEO
LTOQVHSEGR AIVWVGPLEO
Synechococcus_elongatus_PCC_7942_gnl | BL_ORD_ID | 525
Cyanothece_PCC_7425_gnl|BL_ORD_ID|3769
Gloeobacter_violaceus_PCC_7421_gnl|BL_ORD_ID|2237
Cyanobium_sp_PCC_7001_gnl|BL_ORD_ID|377
                                                                                                        --MWCGPQEQ
                                                                                        LAHOIDGOGS AEVWCGPLEC
Prochlorococcus_marinus_MIT_9303_gnl|BL_ORD_ID|1539
Prochlorococcus_marinus_MIT_9313_gnl | BL_ORD_ID | 672
                                                                                        LAHQIDGQGS AEVWCGPLEQ
                                                                                        LANRIDGQGS AEVWCGPLEQ
LANRIDGHGA AEVWCGPLEQ
LANRIDGQGS AEVWCGPLEQ
Synechococcus_CC9605_gnl|BL_ORD_ID|1418
Synechococcus_sp_WH_8109_gnl|BL_ORD_ID|1922
Synechococcus_WH_8102_gnl|BL_ORD_ID|1299
                                                                                        LAHRIDGEGS AEVWRGPLEQ
LAHRIDGOGS AEVWRGPLEQ
LAHQVDGOGS AEVWCGPLEQ
LAHRIDGEGA AEVWCGPLEQ
Synechococcus_sp_BL107_gn1|BL_ORD_ID|90
Synechococcus_sp_CC9902_gnl|BL_ORD_ID|1044
Synechococcus_sp_RS9916_gnl | BL_ORD_ID | 1876
Prochlorococcus_sp_WH_7803_gnl|BL_ORD_ID|1209
                                                                                        LAH<mark>R</mark>IDGEGA AEVWCGPLEQ
Synechococcus_WH_7803_gnl|BL_ORD_ID|1209
Synechococcus_sp_WH7805_gnl|BL_ORD_ID|1527
                                                                                        LARRVDGEGS AEVWCGPLEQ
Synechococcus_sp_RS9917_gnl|BL_ORD_ID|1372
                                                                                        LAH<mark>R</mark>IDSEGA
                                                                                                       ADVWSGPLEQ
Prochlorococcus_sp_CC9311_gnl|BL_ORD_ID|1389
                                                                                         LAHQIDGEGA
                                                                                                        AEVWAGPLEP
                                                                                        LAHQIDSQGS
                                                                                                        AVVWSGPQEQ
Synechococcus_sp_WH5701_gnl|BL_ORD_ID|2187
                                                                                        LAQQIDSDGQ AVVWVGPQEQ
Synechococcus_RCC307_gnl|BL_ORD_ID|1407
                                                                                        LAHQIDGQGS
Synechococcus_sp_CB0101_gnl | BL_ORD_ID | 1488
                                                                                                        ALVWSGPLEQ
Synechococcus_sp_JA_2_3B_a2_13_gnl | BL_ORD_ID | 2497
Synechococcus_sp_JA_3_3Ab_gnl | BL_ORD_ID | 1311
                                                                                        LAHQIDSQGS
LTVQVDAEGQ
                                                                                                        AVVWSGPLEQ
                                                                                                        AVVWVGPQEQ
                                                                                        LTVOVDAEGO AVVWVGPOEO
LTOKIHFNGF ATVWMGPLEO
Cyanobacterium_sp_UCYN_A_gnl | BL_ORD_ID | 272
                                                                                        LTIKVDKTGS
LTIKVDKTGS
                                                                                                       AEVWRGNLEQ
AEVWRGNLEQ
AEVWRGNLEQ
Prochlorococcus_marinus_AS9601_gnl|BL_ORD_ID|997
Prochlorococcus_marinus_MIT_9301_gnl | BL_ORD_ID | 999
Prochlorococcus_marinus_MIT_9215_gnl | BL_ORD_ID | 1028
                                                                                        LTIKVDKTGS
Prochlorococcus_marinus_MIT_9202_gnl | BL_ORD_ID | 1784
                                                                                        LTIKVDKTGS AEVWRGNLEQ
Prochlorococcus_marinus_MIT_9312_gnl | BL_ORD_ID | 939
Prochlorococcus_marinus_MIT_9211_gnl | BL_ORD_ID | 1514
Prochlorococcus_marinus_SS120_gnl | BL_ORD_ID | 1551
                                                                                        LTIKVDNTGS AEVWRGNLEQ
LAVEVDREGL AEVWRGPLEQ
                                                                                        LAVEVDREGL
                                                                                                        AEIWRGPLEQ
Prochlorococcus_marinus_marinus_CCMP1375_gnl|BL_ORD_ID|1552
                                                                                        LAVEVDREGL
                                                                                                        AEIWRGPLEC
Prochlorococcus_marinus_NATL1A_gnl|BL_ORD_ID|1389
                                                                                        LAVEVDREGL
Prochlorococcus_marinus_NATL2A_gnl|BL_ORD_ID|1348
                                                                                         LAVEVD<mark>R</mark>EGL AEVW<mark>R</mark>GPFEQ
Prochlorococcus_marinus_MED4_gnl|BL_ORD_ID|683
Prochlorococcus_marinus_pastoris_CCMP1986_gnl|BL_ORD_ID|684
Acaryochloris_marina_MBIC11017_gnl|BL_ORD_ID|5473
                                                                                         /MMEAHTNGI
                                                                                                        ALVI<mark>T</mark>CAFEH
Anabaena_variabilis_ATCC_29413_gnl|BL_ORD_ID|1891
                                                                                        IMMEAHTNGL
                                                                                                        ALVITCAQEH
                                                                                        IMM<mark>E</mark>AH<mark>TNG</mark>L
                                                                                                       ALVI<mark>TCAQE</mark>H
ALVI<mark>TCAQE</mark>H
ALVI<mark>TCALE</mark>H
Nostoc_sp_PCC_7120_gnl|BL_ORD_ID|4631
Nodularia_spumigena_CCY9414_gnl|BL_ORD_ID|2031
                                                                                         IMMEAH<mark>TN</mark>GM
Nostoc_punctiforme_ATCC_29133_gnl|BL_ORD_ID|3476
Nostoc_punctiforme_PCC_73102_gnl|BL_ORD_ID|3476
                                                                                        IMMEAH<mark>TNG</mark>L
                                                                                                        ALVI<mark>T</mark>CALEH
                                                                                         IMMEAH<mark>TN</mark>GL
                                                                                        IMMEAHTNGL ALVITCALEH
IMMEAHTNGL ALVITCALEH
IMMEAHTNGL ALVITCALEH
IMMEAHSHGL ALVISCALEH
IMMEAHSNGL ALVISCALEH
IMMEAHTNGL ALVITCAQEH
IMMEAHNSGI ALVITCALEH
IMMEAHTNGM ALVITCAQEH
Arthrospira_platensis_NIES_39_gnl|BL_ORD_ID|6367
Arthrospira_platensis_Paraca_gnl|BL_ORD_ID|2792
Arthrospira_sp_PCC_8005_gnl|BL_ORD_ID|2801
Cylindrospermopsis_raciborskii_CS_505_gnl|BL_ORD_ID|496
Raphidiopsis_brookii_D9_gnl|BL_ORD_ID|1510
Lyngbya_sp_CCY_8106_gnl|BL_ORD_ID|3908
Microcoleus_chthonoplastes_PCC_7420_gnl|BL_ORD_ID|4785
Leptolyngbya_valderiana_BDU_20041_gnl|BL_ORD_ID|6
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IMMEAHVNGI ALVITCALEH
IMMEAHTNGL AVVIICAQEH
Cyanothece_PCC_7425_gnl|BL_ORD_ID|3320
Oscillatoria sp PCC 6506 qnl|BL ORD ID|4778
                                                                                                                                                                    IMMEAHTNGL AVVIICAQEH
IMMEAHLTGV ALVITCALEH
IMMEAHSNGI ALVIICALEP
IMMEAHTNGT ALVITCTLEH
IMMEAHTNGT ALVITCALEH
IMMEAHTNGT ALVITCALEH
IMMEAHTNGT ALVITCALEH
IMMEAHTNGT ALVITCALEP
IMMEAHTNGT ALVITCALEP
Thermosynechococcus_elongatus_BP_1_gnl | BL_ORD_ID | 210 Trichodesmium_erythraeum_IMS101_gnl | BL_ORD_ID | 952
Cyanothece_PCC_7424_gnl | BL_ORD_ID | 1601
Cyanothece_PCC_7822_gnl | BL_ORD_ID | 950
Cyanothece_PCC_8801_gnl | BL_ORD_ID | 1215
Cyanothece_PCC_8802_gnl | BL_ORD_ID | 1200
Cyanothece_sp_BH68_ATCC_51142_gnl | BL_ORD_ID | 2328
Cyanothece_sp_CCY_0110_gnl | BL_ORD_ID | 2487
                                                                                                                                                                     IMMEAHTNGT ALVITCIQEH
IMMEAHTNGI ALVITCVQEH
IMMEAHFNGM SLVITCELEH
IMMEAHTNGT GLVITCDIEP
Microcystis_aeruginosa_NIES_843_gnl|BL_ORD_ID|5244
Synechococcus_sp_PCC_7002_gnl | BL_ORD_ID | 2405
Synechocystis_sp_PCC_6803_gnl | BL_ORD_ID | 1854
ClpS1_Synechococcus_7942_ClpS1
                                                                                                                                                                    IMMEAHFNGM SLVITCELEH IMMEAHTNGT GLVITCDIEP IMMEAHTNGT GLVITCDIEP IMMEAHTNGT GLVITCDIEP IMMEAHTNGT GLVITCDIEP IMMEAHISGT ALVITCAFEP IMMEAHNGV AVVIVVPREH IMLEAHNNGV GLVIVCDLEP VMLEAHNTGV GLVVVCDLEP V
Synechococcus_elongatus_PCC_6301_gnl | BL_ORD_ID | 839
Synechococcus_elongatus_PCC_7942_gnl | BL_ORD_ID | 739
Cyanobacterium_sp_UCYN_A_gnl|BL_ORD_ID|939
Synechococcus_sp_PCC_7335_gnl|BL_ORD_ID|2340
Synechococcus_sp_JA_2_3B_a2_13_gnl|BL_ORD_ID|664
Synechococcus_sp_JA_3_3Ab_gnl|BL_ORD_ID|2382
Cyanobium_sp_PCC_7001_gnl|BL_ORD_ID|1599
Prochlorococcus_marinus_MIT_9303_gnl | BL_ORD_ID | 2351
Prochlorococcus_marinus_MIT_9313_gnl | BL_ORD_ID | 1789
Synechococcus_sp_RS9916_gnl|BL_ORD_ID|2779
Prochlorococcus_marinus_SS120_gnl|BL_ORD_ID|1650
Prochlorococcus_marinus_marinus_CCMP1375_gnl|BL_ORD_ID|1651
Prochlorococcus_sp_CC9311_gnl|BL_ORD_ID|363
Prochlorococcus_sp_WH_7803_gnl|BL_ORD_ID|368
Synechococcus_WH_7803_gnl|BL_ORD_ID|368
Synechococcus_WH_8102_gnl|BL_ORD_ID|2141
Synechococcus_sp_WH7805_gnl|BL_ORD_ID|875
Synechococcus_CC9605_gnl|BL_ORD_ID|303
Synechococcus_sp_WH_8109_gnl|BL_ORD_ID|198
Synechococcus_sp_BL107_gnl|BL_ORD_ID|1716
Synechococcus_sp_CC9902_gnl|BL_ORD_ID|2014
Synechococcus_sp_WH5701_gnl BL_ORD_ID 3138
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1996
Synechococcus_sp_CB0101_gnl | BL_ORD_ID | 2613
Synechococcus_sp_CB0205_gnl|BL_ORD_ID|783
Synechococcus_sp_WH5701_gnl BL_ORD_ID 1345
Synechococcus_RCC307_gnl|BL_ORD_ID|2179
Prochlorococcus_marinus_AS9601_gnl|BL_ORD_ID|1697
Prochlorococcus_marinus_MIT_9202_gnl|BL_ORD_ID|596
Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1590
Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1760
Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 1690
Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1495
                                                                                                                                                                     IMLEAHNIGV GLVIVCDLEP
IMLEAHNIGV GLVIVCDLEP
VMLEAHNIGV GLVIVCDLEP
IMLETHNNGV GLVITCDLEP
IMLETHNNGV GLVITCDLEP
IMLEAHNIGV AVVIVCALEH
Prochlorococcus_marinus_pastoris_CCMP1986_gnl | BL_ORD_ID | 1499
Prochlorococcus_marinus_MIT_9515_gnl | BL_ORD_ID | 1677
Prochlorococcus_marinus_MIT_9211_gnl | BL_ORD_ID | 1621
Prochlorococcus_marinus_NATL1A_gnl|BL_ORD_ID|1932
Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1886
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 745
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2530
                                                                                                                                                                     VAWQAH<mark>REG</mark>V AATYQGPREV
VMLTAHQ<mark>R</mark>GV CVVGVFTKDV
Rhodopseudomonas_palustris_CGA009_gnl|BL_ORD_ID|1197
Rhodopseudomonas_palustris_CGA009_gnl | BL_ORD_ID | 3127
                                                                                                                                                                     VMLHVHHH<mark>G</mark>I <mark>GECG</mark>VF<mark>T</mark>YEI
                                                                                                                                                                     LMLAVHYOGK AICGVFTAEV
LMLDVHHKGR AVVSSGTREE
LMLDVHHKGR AVVSSGTREE
HTWEVHTRGR AIVYAGEMSN
Escherichia_coli_UTI89_gnl|BL_ORD_ID|1000
Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165
Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165
Chlorobium_tepidum_TLS_gnl BL_ORD_ID 2204
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Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 3792	AELYHMQLQR	AGLT
Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 3450	AELYHQQL <mark>RR</mark>	
Nostoc_sp_PCC_7120_gnl BL_ORD_ID 714	AELYHQQLRR	
Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3650 Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3650	AELYHQQLRR AELYHQQLRR	
Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 1770	AELYHQQLRR	
Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 1627	A <mark>E</mark> LYH <mark>TQ</mark> L <mark>SR</mark>	
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 4151	AELYHTQLSR	
Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2021 Lyngbya_sp_CCY_8106_gnl BL_ORD_ID 4005	A <mark>E</mark> LYHTQLS <mark>R</mark> AELYHTOLSR	
Oscillatoria_sp_PCC_6506_gnl BL_ORD_ID 1058	AELYHMQLSR	
Cyanothece_PCC_7424_gnl BL_ORD_ID 4383	AELYHQQL <mark>RR</mark>	
Cyanothece_PCC_7822_gnl BL_ORD_ID 206	AELYHQQL <mark>RR</mark>	
Cyanothece_PCC_8801_gnl BL_ORD_ID 1764 Cyanothece_PCC_8802_gnl BL_ORD_ID 1739	AELYHQQLRR AELYHQQLRR	
Microcystis_aeruginosa_NIES_843_gnl BL_ORD_ID 703	AELYHOOLRR	
Cyanothece_sp_BH68_ATCC_51142_gnl BL_ORD_ID 3651	AELYHQQL <mark>RR</mark>	EGLT
Cyanothece_sp_CCY_0110_gnl BL_ORD_ID 1780	AELYHQQLRR	
Microcoleus_chthonoplastes_PCC_7420_gnl BL_ORD_ID 3381 Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 3110	AELYHQQLSR AELYHQQLRR	
Raphidiopsis_brookii_D9_gnl BL_ORD_ID 516	AELYHOOLRR	
Thermosynechococcus_elongatus_BP_1_gnl BL_ORD_ID 1087	AELYHEQLL <mark>R</mark>	
Synechocystis_sp_PCC_6803_gnl BL_ORD_ID 1103	AELYHQQL <mark>RR</mark>	
Synechococcus_sp_PCC_7002_gnl BL_ORD_ID 2207 Trichodesmium_erythraeum_IMS101_gnl BL_ORD_ID 3325	AELYHQQL <mark>RR</mark> AELYHQQLSR	
Synechococcus_sp_PCC_7335_gnl BL_ORD_ID 2231	AELYHSQLIR	
ClpS2_Synechococcus_7942_ClpS2	AELYHEQL <mark>RR</mark>	
Synechococcus_elongatus_PCC_6301_gnl BL_ORD_ID 1043	AELYHE <mark>QL</mark> RR	
Synechococcus_elongatus_PCC_7942_gnl BL_ORD_ID 525 Cyanothece_PCC_7425_gnl BL_ORD_ID 3769	AELYHEQLRR	
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2237	AELYHLQL <mark>GQ</mark> AELYHEQLS <mark>R</mark>	
Cyanobium_sp_PCC_7001_gn1 BL_ORD_ID 377	A <mark>E</mark> LYHQQL <mark>G</mark> A	
Prochlorococcus_marinus_MIT_9303_gnl BL_ORD_ID 1539	AELYHQQLSG	
Prochlorococcus_marinus_MIT_9313_gnl BL_ORD_ID 672 Synechococcus_CC9605_gnl BL_ORD_ID 1418	AELYHQQLSG AELYHQQLQA	
Synechococcus_sp_WH_8109_gnl BL_ORD_ID 1922	AELYHOOLOS	
Synechococcus_WH_8102_gnl BL_ORD_ID 1299	A <mark>E</mark> LYH <mark>QQ</mark> LAA	
Synechococcus_sp_BL107_gn1 BL_ORD_ID 90	A <mark>E</mark> LYHQQLQT	
Synechococcus_sp_CC9902_gnl BL_ORD_ID 1044 Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876	A <mark>E</mark> LYHLQLQT AELYHQQLTG	
Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209	AELYHQQLGA	
Synechococcus_WH_7803_gnl BL_ORD_ID 1209	A <mark>E</mark> LYH <mark>QQ</mark> LGA	EGLT
Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527		DGLT
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372 Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389	A <mark>E</mark> LYHQQLSA AELYHQQLSS	
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187	AELYHQQLSQ	
Synechococcus_RCC307_gnl BL_ORD_ID 1407	A <mark>E</mark> LYHM <mark>Q</mark> LGA	
Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488	A <mark>E</mark> LYH <mark>QQLG</mark> A AELYHOLLAG	
Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119 Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497	AELYHOOLLR	
Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311	AELYHQQLLR	
Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272	AELYH <mark>QQL</mark> RR	
Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997 Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999	AELYHEQLFS AELYHEOLFS	
Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999 Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028	AELYHEOLLS	
Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784	AELYHEQLLS	
Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939	AELYHEQLVS	
Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514 Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551	AELYHQQLIS AELYHQQLIS	
Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552	AELYHOOLIS	
Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389	A <mark>E</mark> LYH <mark>QQ</mark> LI <mark>S</mark>	
Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348	A <mark>E</mark> LYHQQLIS	KGLT
Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683 Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684		
Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473	AEFYCETLKM	HGLT
Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891	AEFYCE <mark>TLK</mark> D	
Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631	AEFYCETL <mark>K</mark> D AEFYCETL <mark>K</mark> S	
Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 2031 Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476	AEFYCETLIS	
Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476	AEFYCETLIS	HGLS
Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 6367	AEFYCE <mark>TLK</mark> N	
Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792 Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801	AEFYCETL <mark>K</mark> N AEFYCETLKN	
Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496	AEFYCESLNN	
Raphidiopsis_brookii_D9_gnl BL_ORD_ID 1510	AEFYCE <mark>SL</mark> NN	HGLT
Lyngbya_sp_CCY_8106_gnl BL_ORD_ID 3908	AEFYCETLKN	
Microcoleus_chthonoplastes_PCC_7420_gnl BL_ORD_ID 4785 Leptolyngbya_valderiana_BDU_20041_gnl BL_ORD_ID 6	AEFYCETLKN AEFYCETLRR	
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Cyanothece_PCC_7425_gnl|BL_ORD_ID|3320
                                                                                                        AEFYCESL<mark>K</mark>L
Oscillatoria sp PCC 6506 gnl|BL ORD ID|4778
                                                                                                        AEFYSETLNI
Thermosynechococcus_elongatus_BP_1_gnl|BL_ORD_ID|210
Trichodesmium_erythraeum_IMS101_gnl|BL_ORD_ID|952
                                                                                                        AEFYCEGL<mark>K</mark>M
                                                                                                        AEFYCENL<mark>K</mark>N
Cyanothece_PCC_7424_gnl | BL_ORD_ID | 1601
Cyanothece_PCC_7822_gnl | BL_ORD_ID | 950
                                                                                                        AEFYCETL<mark>K</mark>N
                                                                                                        AEFYCETL<mark>K</mark>A
Cyanothece_PCC_8801_gnl | BL_ORD_ID | 1215
                                                                                                         AEFYCETL<mark>K</mark>N
Cyanothece_PCC_8802_gnl | BL_ORD_ID | 1200
                                                                                                        AEFYCETL<mark>K</mark>N
Cyanothece_sp_BH68_ATCC_51142_gnl | BL_ORD_ID | 2328
Cyanothece_sp_CCY_0110_gnl | BL_ORD_ID | 2487
                                                                                                        AEFYCETL<mark>K</mark>N
                                                                                                        AEFYCETL<mark>K</mark>N
Microcystis_aeruginosa_NIES_843_gnl|BL_ORD_ID|5244
                                                                                                        AEFYCETLKN
Synechococcus_sp_PCC_7002_gnl | BL_ORD_ID | 2405
Synechocystis_sp_PCC_6803_gnl | BL_ORD_ID | 1854
ClpS1_Synechococcus_7942_ClpS1
                                                                                                        AEFYCETL<mark>K</mark>M
                                                                                                        AEFYCETLRS
                                                                                                        AEFYCEQL<mark>K</mark>S
Synechococcus_elongatus_PCC_6301_gnl | BL_ORD_ID | 839
Synechococcus_elongatus_PCC_7942_gnl | BL_ORD_ID | 739
                                                                                                        AEFYCEOLKS
                                                                                                         AEFYCEQLK
Cyanobacterium_sp_UCYN_A_gnl|BL_ORD_ID|939
                                                                                                        AEFY<mark>RETLK</mark>N
Synechococcus_sp_PCC_7335_gnl|BL_ORD_ID|2340
Synechococcus_sp_JA_2_3B_a2_13_gnl|BL_ORD_ID|664
                                                                                                        AEFYCEGLKG
                                                                                                        AEFYCEQL<mark>R</mark>Q
Synechococcus_sp_JA_3_3Ab_gnl|BL_ORD_ID|2382
                                                                                                        AEFYCEQLRQ
                                                                                                        AEFYCETL<mark>K</mark>A
Cyanobium_sp_PCC_7001_gnl|BL_ORD_ID|1599
Prochlorococcus_marinus_MIT_9303_gnl | BL_ORD_ID | 2351
Prochlorococcus_marinus_MIT_9313_gnl | BL_ORD_ID | 1789
Synechococcus_sp_RS9916_gnl | BL_ORD_ID | 2779
                                                                                                        AEFYCETL<mark>K</mark>A
                                                                                                        AEFYCETL<mark>K</mark>A
                                                                                                        AEFY<mark>CETLK</mark>A
Prochlorococcus_marinus_SS120_gnl|BL_ORD_ID|1650
                                                                                                        AEFYSESL<mark>K</mark>G
Prochlorococcus_marinus_marinus_CCMP1375_gnl|BL_ORD_ID|1651
Prochlorococcus_sp_CC9311_gnl|BL_ORD_ID|363
Prochlorococcus_sp_WH_7803_gnl|BL_ORD_ID|368
                                                                                                        AEFYSESL<mark>K</mark>G
                                                                                                        AEFYCETLKN
                                                                                                        AEFYCETLKG
Synechococcus_WH_7803_gnl|BL_ORD_ID|368
                                                                                                        AEFYCETLKG
Synechococcus_WH_8102_gnl|BL_ORD_ID|2141
                                                                                                        AEFYCETL<mark>K</mark>A
Synechococcus_sp_WH7805_gnl|BL_ORD_ID|875
Synechococcus_CC9605_gnl|BL_ORD_ID|303
                                                                                                        <mark>AEFYCETLK</mark>G
                                                                                                        AEFYCETLKS
Synechococcus_sp_WH_8109_gnl|BL_ORD_ID|198
                                                                                                        AEFYCEML<mark>K</mark>S
Synechococcus_sp_BL107_gnl|BL_ORD_ID|1716
                                                                                                        AEFYCETLKS
Synechococcus_sp_CC9902_gnl|BL_ORD_ID|2014
                                                                                                        AEFYCETLKS
Synechococcus_sp_WH5701_gnl BL_ORD_ID 3138
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1996
                                                                                                        AEFYCETLKS
                                                                                                        AEFYCETL<mark>K</mark>A
Synechococcus_sp_CB0101_gnl | BL_ORD_ID | 2613
                                                                                                        AEFY<mark>SETLK</mark>A
Synechococcus_sp_CB0205_gnl|BL_ORD_ID|783
                                                                                                        AEFYSETL<mark>K</mark>A
Synechococcus_sp_WH5701_gnl BL_ORD_ID 1345
                                                                                                        AEFYSETL<mark>K</mark>A
Synechococcus_RCC307_gnl|BL_ORD_ID|2179
Prochlorococcus_marinus_AS9601_gnl|BL_ORD_ID|1697
                                                                                                        AEFYCESL<mark>K</mark>A
                                                                                                        AEFY<mark>SE</mark>SL<mark>K</mark>S
Prochlorococcus_marinus_MIT_9202_gnl|BL_ORD_ID|596
                                                                                                        AEFYSESLKS
Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1590
Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1760
Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 1690
Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1495
                                                                                                        AEFYSESL<mark>K</mark>S
                                                                                                        AEFYSESLKS
                                                                                                        AEFYSESLKS
                                                                                                        AEFYSESL<mark>K</mark>S
Prochlorococcus_marinus_pastoris_CCMP1986_gnl|BL_ORD_ID|1499
                                                                                                        AEFYSESLKS
Prochlorococcus_marinus_MIT_9515_gnl | BL_ORD_ID | 1677
Prochlorococcus_marinus_MIT_9211_gnl | BL_ORD_ID | 1621
                                                                                                        AEFYSESL<mark>K</mark>S
AEFYSESLKA
Prochlorococcus_marinus_NATL1A_gnl|BL_ORD_ID|1932
                                                                                                        AEFY<mark>SESLK</mark>A
Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1886
                                                                                                        AEFY<mark>SESLK</mark>A
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 745
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2530
                                                                                                        AEFY<mark>SE</mark>SLNR
                                                                                                        AELVCEKLVR
                                                                                                         AET<mark>K</mark>AT<mark>R</mark>ATD
                                                                                                                          AGRAKGY:
Rhodopseudomonas_palustris_CGA009_gnl|BL_ORD_ID|1197
Rhodopseudomonas_palustris_CGA009_gnl BL_ORD_ID 3127
                                                                                                        AET<mark>K</mark>VTQVMD
                                                                                                                          FARKHOHPLO
Escherichia_coli_UTI89_gnl|BL_ORD_ID|1000
                                                                                                        AETKVAMVNK
                                                                                                                          YARENEHPLI
Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165
Streptomyces_avermitilis_MA_4680_gnl BL_ORD_ID 5165
Chlorobium_tepidum_TLS_gnl BL_ORD_ID 2204
                                                                                                        MERDVQAMHG
MERDVQAMHG
                                                                                                        CIRVSAILEE
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Acaryochloris marina MBIC11017 qnl | BL ORD ID | 3792
                                                                                  MAPLEAA
Anabaena_variabilis_ATCC_29413_gnl|BL_ORD_ID|3450
                                                                                  MA<mark>PL</mark>EAI
                                                                                  MA<mark>PLE</mark>AI
MA<mark>PLE</mark>AI
Nostoc_sp_PCC_7120_gnl|BL_ORD_ID|714
Nostoc_punctiforme_ATCC_29133_gnl|BL_ORD_ID|3650
Nostoc_punctiforme_PCC_73102_gnl|BL_ORD_ID|3650
                                                                                  MA<mark>PLE</mark>A
Nodularia_spumigena_CCY9414_gnl|BL_ORD_ID|1770
Arthrospira_platensis_NIES_39_gnl|BL_ORD_ID|1627
                                                                                  MA<mark>PLEK</mark>A
Arthrospira_sp_PCC_8005_gnl|BL_ORD_ID|4151
                                                                                   MA<mark>P</mark>LEKA
Arthrospira_platensis_Paraca_gnl|BL_ORD_ID|2021
Lyngbya_sp_CCY_8106_gnl|BL_ORD_ID|4005
Oscillatoria_sp_PCC_6506_gnl|BL_ORD_ID|1058
Cyanothece_PCC_7424_gnl|BL_ORD_ID|4383
Cyanothece_PCC_7822_gnl|BL_ORD_ID|206
Cyanothece_PCC_8801_gnl|BL_ORD_ID|1764
                                                                                  MA<mark>PLE</mark>AI
                                                                                  LA<mark>PLE</mark>A
                                                                                  MAPLEKA
Cyanothece_PCC_8802_gnl|BL_ORD_ID|1739
Microcystis_aeruginosa_NIES_843_gnl|BL_ORD_ID|703
                                                                                  MAPLEA?
Cyanothece_sp_BH68_ATCC_51142_gnl|BL_ORD_ID|3651
                                                                                  MAPLEE
Cyanothece_sp_CCY_0110_gnl|BL_ORD_ID|1780
Microcoleus_chthonoplastes_PCC_7420_gnl|BL_ORD_ID|3381
                                                                                  MA<mark>PLE</mark>AA
Cylindrospermopsis_raciborskii_CS_505_gnl|BL_ORD_ID|3110
                                                                                  MA<mark>PLE</mark>AI
Raphidiopsis_brookii_D9_gnl|BL_ORD_ID|516
                                                                                  MAPLEA
Thermosynechococcus_elongatus_BP_1_gnl|BL_ORD_ID|1087
                                                                                  MAPLEPE
Synechocystis_sp_PCC_6803_gnl|BL_ORD_ID|1103
                                                                                  MA<mark>PLEK</mark>A
Synechococcus_sp_PCC_7002_gnl | BL_ORD_ID | 2207
                                                                                   MAPLEA
Trichodesmium_erythraeum_IMS101_gnl|BL_ORD_ID|3325
                                                                                  MAPLE<mark>K</mark>A
Synechococcus_sp_PCC_7335_gnl|BL_ORD_ID|2231
ClpS2_Synechococcus_7942_ClpS2
                                                                                  VAPLEKA
                                                                                  MA<mark>PLE</mark>A
Synechococcus_elongatus_PCC_6301_gnl|BL_ORD_ID|1043
                                                                                  MAPLEA
Synechococcus_elongatus_PCC_7942_gnl | BL_ORD_ID | 525
Cyanothece_PCC_7425_gnl|BL_ORD_ID|3769
Gloeobacter_violaceus_PCC_7421_gnl|BL_ORD_ID|2237
Cyanobium_sp_PCC_7001_gnl|BL_ORD_ID|377
                                                                                  MA<mark>PLE</mark>LA
                                                                                  MA<mark>P</mark>LERD
Prochlorococcus_marinus_MIT_9303_gnl|BL_ORD_ID|1539
Prochlorococcus_marinus_MIT_9313_gnl | BL_ORD_ID | 672
                                                                                  MAPLERC
Synechococcus_CC9605_gnl|BL_ORD_ID|1418
                                                                                  MAPLERC
Synechococcus_sp_WH_8109_gnl|BL_ORD_ID|1922
Synechococcus_WH_8102_gnl|BL_ORD_ID|1299
                                                                                  MAPLERC
Synechococcus_sp_BL107_gn1|BL_ORD_ID|90
Synechococcus_sp_CC9902_gnl|BL_ORD_ID|1044
                                                                                  MAPLDRC
Synechococcus_sp_RS9916_gnl | BL_ORD_ID | 1876
                                                                                  MA<mark>PIER</mark>C:
Prochlorococcus_sp_WH_7803_gnl|BL_ORD_ID|1209
                                                                                  MA<mark>PIER</mark>C
Synechococcus_WH_7803_gnl|BL_ORD_ID|1209
                                                                                  MAPIERC
Synechococcus_sp_WH7805_gnl|BL_ORD_ID|1527
                                                                                  MAPIERC
Synechococcus_sp_RS9917_gnl|BL_ORD_ID|1372
                                                                                  MAPLERC
Prochlorococcus_sp_CC9311_gnl | BL_ORD_ID | 1389
Synechococcus_sp_WH5701_gnl|BL_ORD_ID|2187
                                                                                  MAPLERE
Synechococcus_RCC307_gnl|BL_ORD_ID|1407
Synechococcus_sp_CB0101_gnl | BL_ORD_ID | 1488
                                                                                  MAPLERG
Synechococcus_sp_JA_2_3B_a2_13_gnl | BL_ORD_ID | 2497
Synechococcus_sp_JA_3_3Ab_gnl | BL_ORD_ID | 1311
                                                                                  MAPVERG
                                                                                  MAPLEPA
Cyanobacterium_sp_UCYN_A_gnl | BL_ORD_ID | 272
                                                                                  MA<mark>PLEG</mark>I
Prochlorococcus_marinus_AS9601_gnl|BL_ORD_ID|997
                                                                                  MAPIEKI
Prochlorococcus_marinus_MIT_9301_gnl | BL_ORD_ID | 999
Prochlorococcus_marinus_MIT_9215_gnl | BL_ORD_ID | 1028
                                                                                  MAPIEKT
Prochlorococcus_marinus_MIT_9202_gnl | BL_ORD_ID | 1784
                                                                                  MAPIEK'
Prochlorococcus_marinus_MIT_9312_gnl | BL_ORD_ID | 939
Prochlorococcus_marinus_MIT_9211_gnl | BL_ORD_ID | 1514
Prochlorococcus_marinus_SS120_gnl | BL_ORD_ID | 1551
                                                                                  MA<mark>P</mark>ID<mark>K</mark>I
                                                                                  MA<mark>PIEK</mark>I
                                                                                  MAPIEQI
Prochlorococcus_marinus_marinus_CCMP1375_gnl|BL_ORD_ID|1552
                                                                                  MAPIEO1
Prochlorococcus_marinus_NATL1A_gnl|BL_ORD_ID|1389
Prochlorococcus_marinus_NATL2A_gnl|BL_ORD_ID|1348
Prochlorococcus_marinus_MED4_gnl|BL_ORD_ID|683
Prochlorococcus_marinus_pastoris_CCMP1986_gnl|BL_ORD_ID|684
Acaryochloris_marina_MBIC11017_gnl|BL_ORD_ID|5473
                                                                                  STIEPDE
Anabaena_variabilis_ATCC_29413_gnl|BL_ORD_ID|1891
                                                                                   STIEPDE
                                                                                  ST<mark>IEP</mark>DE
Nostoc_sp_PCC_7120_gnl|BL_ORD_ID|4631
Nodularia_spumigena_CCY9414_gnl|BL_ORD_ID|2031
                                                                                   STIEPDE
Nostoc_punctiforme_ATCC_29133_gnl|BL_ORD_ID|3476
Nostoc_punctiforme_PCC_73102_gnl|BL_ORD_ID|3476
                                                                                  STIEPDE
Arthrospira_platensis_NIES_39_gnl|BL_ORD_ID|6367
                                                                                   STIEPDE
Arthrospira_platensis_Paraca_gnl|BL_ORD_ID|2792
                                                                                   STIEPDE
Arthrospira_sp_PCC_8005_gnl|BL_ORD_ID|2801
                                                                                  STIEPDE
Cylindrospermopsis_raciborskii_CS_505_gnl|BL_ORD_ID|496
                                                                                   STIEPDD
Raphidiopsis_brookii_D9_gnl|BL_ORD_ID|1510
                                                                                  STIEPDD
Lyngbya_sp_CCY_8106_gnl|BL_ORD_ID|3908
Microcoleus_chthonoplastes_PCC_7420_gnl|BL_ORD_ID|4785
                                                                                  STIEPDE
                                                                                   STIEPDE
Leptolyngbya_valderiana_BDU_20041_gnl|BL_ORD_ID|6
                                                                                   SSIEPDD
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Cyanothece_PCC_7425_gnl|BL_ORD_ID|3320
                                                                                        STIEPDE-
Oscillatoria sp PCC 6506 gnl|BL ORD ID|4778
                                                                                       STIEDDE
Thermosynechococcus_elongatus_BP_1_gnl | BL_ORD_ID | 210 Trichodesmium_erythraeum_IMS101_gnl | BL_ORD_ID | 952
                                                                                       STIEPTE
                                                                                        STIEPDE
Cyanothece_PCC_7424_gnl | BL_ORD_ID | 1601
Cyanothece_PCC_7822_gnl | BL_ORD_ID | 950
                                                                                       STIEPDE
                                                                                       STIEPDE
Cyanothece_PCC_8801_gnl | BL_ORD_ID | 1215
                                                                                       SSIEPDE
Cyanothece_PCC_8802_gnl | BL_ORD_ID | 1200
                                                                                       SSIEPDE
Cyanothece_sp_BH68_ATCC_51142_gnl | BL_ORD_ID | 2328
Cyanothece_sp_CCY_0110_gnl | BL_ORD_ID | 2487
                                                                                        STIEPDE
                                                                                       STIEPDE
Microcystis_aeruginosa_NIES_843_gnl|BL_ORD_ID|5244
                                                                                       SSIEPDE
Synechococcus_sp_PCC_7002_gnl | BL_ORD_ID | 2405
Synechocystis_sp_PCC_6803_gnl | BL_ORD_ID | 1854
ClpS1_Synechococcus_7942_ClpS1
                                                                                        STIEPDE
                                                                                        STIEPDE
Synechococcus_elongatus_PCC_6301_gnl | BL_ORD_ID | 839
Synechococcus_elongatus_PCC_7942_gnl | BL_ORD_ID | 739
Cyanobacterium_sp_UCYN_A_gnl|BL_ORD_ID|939
                                                                                        SSIEPDE
Synechococcus_sp_PCC_7335_gnl|BL_ORD_ID|2340
Synechococcus_sp_JA_2_3B_a2_13_gnl|BL_ORD_ID|664
                                                                                        STIEPEE
                                                                                       SSIEPER
Synechococcus_sp_JA_3_3Ab_gnl|BL_ORD_ID|2382
                                                                                       SSIEPER
Cyanobium_sp_PCC_7001_gnl|BL_ORD_ID|1599
                                                                                       STLEPDD
Prochlorococcus_marinus_MIT_9303_gnl | BL_ORD_ID | 2351
Prochlorococcus_marinus_MIT_9313_gnl | BL_ORD_ID | 1789
                                                                                       STLEQES
                                                                                       ST<mark>LEQE</mark>S
Synechococcus_sp_RS9916_gnl|BL_ORD_ID|2779
                                                                                       STLEPES
Prochlorococcus_marinus_SS120_gnl|BL_ORD_ID|1650
                                                                                       STIEPES
Prochlorococcus_marinus_marinus_CCMP1375_gnl|BL_ORD_ID|1651
                                                                                       STIEPES
Prochlorococcus_sp_CC9311_gnl|BL_ORD_ID|363
Prochlorococcus_sp_WH_7803_gnl|BL_ORD_ID|368
                                                                                        STIEPES
                                                                                       STIEPEN
Synechococcus_WH_7803_gnl|BL_ORD_ID|368
                                                                                       STIEPEN-
Synechococcus_WH_8102_gnl|BL_ORD_ID|2141
                                                                                       STIEPET
Synechococcus_sp_WH7805_gnl|BL_ORD_ID|875
                                                                                       STLEPDT
Synechococcus_CC9605_gnl | BL_ORD_ID | 303
                                                                                       SS<mark>IEP</mark>EN
Synechococcus_sp_WH_8109_gnl|BL_ORD_ID|198
                                                                                       SSIEPEE
Synechococcus_sp_BL107_gnl|BL_ORD_ID|1716
                                                                                       STIEPED
Synechococcus_sp_CC9902_gnl|BL_ORD_ID|2014
                                                                                       SSIEPED
Synechococcus_sp_WH5701_gnl BL_ORD_ID 3138
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1996
Synechococcus_sp_CB0101_gnl BL_ORD_ID 2613
                                                                                       STIEPED
                                                                                       STLEPET
                                                                                       STIEPES-
Synechococcus_sp_CB0205_gnl|BL_ORD_ID|783
                                                                                       STIEPED
Synechococcus_sp_WH5701_gnl BL_ORD_ID 1345
                                                                                       STIEPES
Synechococcus_RCC307_gnl|BL_ORD_ID|2179
Prochlorococcus_marinus_AS9601_gnl|BL_ORD_ID|1697
                                                                                       STIEPEE
                                                                                       SSIEKED-
Prochlorococcus_marinus_MIT_9202_gnl|BL_ORD_ID|596
                                                                                       SSIEKED
Prochlorococcus_marinus_MIT_9312_gnl | BL_ORD_ID | 1590
                                                                                       SSIEKED-
Prochlorococcus_marinus_MIT_9215_gnl | BL_ORD_ID | 1760
Prochlorococcus_marinus_MIT_9301_gnl | BL_ORD_ID | 1690
Prochlorococcus_marinus_MED4_gnl | BL_ORD_ID | 1495
                                                                                       SSIEKED-
                                                                                       SSIEKED
                                                                                       SSIEKED.
Prochlorococcus_marinus_pastoris_CCMP1986_gnl | BL_ORD_ID | 1499
                                                                                       SSIEKED-
Prochlorococcus_marinus_MIT_9515_gnl | BL_ORD_ID | 1677
Prochlorococcus_marinus_MIT_9211_gnl | BL_ORD_ID | 1621
                                                                                       SS<mark>IEK</mark>DE
                                                                                       STIEKET
Prochlorococcus_marinus_NATL1A_gnl | BL_ORD_ID | 1932
                                                                                       STIELES
Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1886
                                                                                       STIELES
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 745
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2530
                                                                                        STYEPDC
                                                                                       SDCCE-S
Rhodopseudomonas_palustris_CGA009_gnl|BL_ORD_ID|1197
                                                                                        TTEPEE-
Rhodopseudomonas_palustris_CGA009_gnl BL_ORD_ID 3127
                                                                                       CVMEKK
Escherichia_coli_UTI89_gnl|BL_ORD_ID|1000
                                                                                       CTLEKA--
Streptomyces_avermitilis_MA_4680_gnl|BL_ORD_ID|5165
                                                                                       ATLQQD<mark>RK</mark>
Streptomyces_avermitilis_MA_4680_gnl|BL_ORD_ID|5165
                                                                                        ATLOODRE
Chlorobium_tepidum_TLS_gnl|BL_ORD_ID|2204
                                                                                       TEIQTG--
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