

	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_gnl BL_ORD_ID 3325	-----	-----
Synechococcus_sp_PCC_7335_gnl 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_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_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	-----	-----
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 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	-----	-----
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_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	-----	-----
Cyanotheca_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	-----	-----
Cyanotheca_PCC_7424_gnl BL_ORD_ID 1601	-----	-----
Cyanotheca_PCC_7822_gnl BL_ORD_ID 950	-----	-----
Cyanotheca_PCC_8801_gnl BL_ORD_ID 1215	-----	-----
Cyanotheca_PCC_8802_gnl BL_ORD_ID 1200	-----	-----
Cyanotheca_sp_BH68_ATCC_51142_gnl BL_ORD_ID 2328	-----	-----
Cyanotheca_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	-----	-----
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	-----	-----
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	-----	-----
Chlorobium_tepidum_TLS_gnl BL_ORD_ID 2204	-----	-----

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_gnl	BL_ORD_ID	3325	-----	-----
Synechococcus_sp_PCC_7335_gnl	BL_ORD_ID	2231	-----	-----
ClpS2_Synechococcus_7942_ClpS2			-----	ML PSPFRPQTTI
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_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_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	-----	-----
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	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	-----	-----
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_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	-----	-----

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	-----	-----
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	-----	-----
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	-----	-----
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	-----	-----

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_gnl	BL_ORD_ID	3325	-----	-----
Synechococcus_sp_PCC_7335_gnl	BL_ORD_ID	2231	-----	-----
ClpS2_Synechococcus_7942_ClpS2			ASENVKTASK	AAQPKVNSSM
Synechococcus_elongatus_PCC_6301_gnl	BL_ORD_ID	1043	-----	M
Synechococcus_elongatus_PCC_7942_gnl	BL_ORD_ID	525	-----	M
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_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_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_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	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	-----	MRETKRNRQC
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_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	-----	-----

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 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	GYLAVASYPA	SRQPGDVQKR
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	-----	-----

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_gnl	BL_ORD_ID	3325	-----	M
Synechococcus_sp_PCC_7335_gnl	BL_ORD_ID	2231	-----	-----
ClpS2_Synechococcus_7942_ClpS2			SPQPDESVL	ILGVPRPCVK
Synechococcus_elongatus_PCC_6301_gnl	BL_ORD_ID	1043	SPQPDESVL	ILGVPRPCVK
Synechococcus_elongatus_PCC_7942_gnl	BL_ORD_ID	525	SPQPDESVL	ILGVPRPCVK
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_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_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_WH_7803_gnl	BL_ORD_ID	1209	-----	-----
Synechococcus_sp_WH7805_gnl	BL_ORD_ID	1527	-----	M
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_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	-----	-----
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_gnl	BL_ORD_ID	6367	-----	MA
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	-----	-----

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	-----	-----MTAA
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	-----	-----
Synechococcus_sp_CC9902_gnl BL_ORD_ID 2014	-----	-----
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	-----	-----MIN
Prochlorococcus_marinus_MIT_9515_gnl BL_ORD_ID 1677	-----	-----
Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1621	-----	-----MSLVDW
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	-----	-----
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2530	LRWGAIVVSF	GYTGTQDDYP
Rhodopseudomonas_palustris_CGA009_gnl BL_ORD_ID 1197	-----	-----
Rhodopseudomonas_palustris_CGA009_gnl BL_ORD_ID 3127	-----MLQP	SLSHSAAGQA
Escherichia_coli_UTI89_gnl BL_ORD_ID 1000	-----M	-----GKT
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
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_gnl	BL_ORD_ID	3325
Synechococcus_sp_PCC_7335_gnl	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_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_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
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	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
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_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

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	-----	-----MEAW
Trichodesmium_erythraeum_IMS101_gnl BL_ORD_ID 952	-----	-----
Cyanothece_PCC_7424_gnl BL_ORD_ID 1601	-----	-----
Cyanothece_PCC_7822_gnl BL_ORD_ID 950	-----	-----MS
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	-----AMTTTV	POATQTSPSRE
Prochlorococcus_marinus_MIT_9303_gnl BL_ORD_ID 2351	-----LPIVL	AMAVNAPSPS
Prochlorococcus_marinus_MIT_9313_gnl BL_ORD_ID 1789	-----VPIVL	AMAVNAPSPT
Synechococcus_sp_RS9916_gnl BL_ORD_ID 2779	-----	MAVNITSPG
Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1650	-----	MVGNPGRG
Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1651	-----	MVGNPGRG
Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 363	-----	MVDTPSRS
Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 368	-----M	VMAVETPSRT
Synechococcus_WH_7803_gnl BL_ORD_ID 368	-----M	VMAVETPSRT
Synechococcus_WH_8102_gnl BL_ORD_ID 2141	-----M	AMAVDTPTRS
Synechococcus_sp_WH7805_gnl BL_ORD_ID 875	-----	MAVETPSLT
Synechococcus_CC9605_gnl BL_ORD_ID 303	-----M	VMAVESPSQK
Synechococcus_sp_WH_8109_gnl BL_ORD_ID 198	-----VFGSM	VMAVDPSQK
Synechococcus_sp_BL107_gnl BL_ORD_ID 1716	-----	MAEETPTRS
Synechococcus_sp_CC9902_gnl BL_ORD_ID 2014	-----	MAEETPTRS
Synechococcus_sp_WH5701_gnl BL_ORD_ID 3138	-----	-----
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1996	-----HRS DL	AMVGSTSSTS
Synechococcus_sp_CB0101_gnl BL_ORD_ID 2613	-----PCTAA	FTATQTPGRE
Synechococcus_sp_CB0205_gnl BL_ORD_ID 783	-----M	IRSTQAPGRE
Synechococcus_sp_WH5701_gnl BL_ORD_ID 1345	-----MSDT	IRATETPTRS
Synechococcus_RCC307_gnl BL_ORD_ID 2179	-----M	THASETPVSS
Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 1697	-----	MLSIKLEQSG
Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 596	-----	MLSIKLEQSV
Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 1590	-----	MLSIKLEQSV
Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1760	-----	MSSIKLEQRV
Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 1690	-----	-----
Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 1495	RFSCNYNQKV	MSNIKFEKGE
Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 1499	RFSCNYNQKV	MSNIKFEKGE
Prochlorococcus_marinus_MIT_9515_gnl BL_ORD_ID 1677	-----	MSI IKLEKGD
Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1621	-----NYLPT	GIMVEATGSS
Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1932	-----IHLDS	LIMVDSANQT
Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1886	-----IHLES	LIMVDSANQT
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 745	-----	-----
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2530	HASMERMVLA	PAAVSAPPLP
Rhodopseudomonas_palustris_CGA009_gnl BL_ORD_ID 1197	-----	-----
Rhodopseudomonas_palustris_CGA009_gnl BL_ORD_ID 3127	GDRIN-RPLA	MAGDGGRSGP
Escherichia_coli_UTI89_gnl BL_ORD_ID 1000	NDWLDFDQLA	E
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

Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 3792	QTPVTRPEEK	QAO---	KTV
Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 3450	TAPTIVTP--E	RSN---	QTV
Nostoc_sp_PCC_7120_gnl BL_ORD_ID 714	TAPTIVTP--E	RSN---	QTV
Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3650	TAPTITIP--E	RSS---	QVT
Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3650	TAPTITIP--E	RSS---	QVT
Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 1770	TAPTIVTP--G	KTT---	EVV
Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 1627	ASPTTTTP--S	RSS---	QTV
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 4151	ASPTTTTP--S	RSS---	QTV
Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2021			
Lyngbya_sp_CCY_8106_gnl BL_ORD_ID 4005	SSPTVAP--S	RSS---	QVT
Oscillatoria_sp_PCC_6506_gnl BL_ORD_ID 1058	SSPTIAP--D	RSS---	QVT
Cyanothece_PCC_7424_gnl BL_ORD_ID 4383	TAPTIVTP--D	KTT---	QVV
Cyanothece_PCC_7822_gnl BL_ORD_ID 206	TAPTIVTP--D	KTT---	QVV
Cyanothece_PCC_8801_gnl BL_ORD_ID 1764	TAPSVAP--K	GST---	AVV
Cyanothece_PCC_8802_gnl BL_ORD_ID 1739	TAPSVAP--K	GST---	AVV
Microcystis_aeruginosa_NIES_843_gnl BL_ORD_ID 703	SAPSTTL--D	KST---	QVV
Cyanothece_sp_BH68_ATCC_51142_gnl BL_ORD_ID 3651	TSTSTAP--K	GST---	VID
Cyanothece_sp_CCY_0110_gnl BL_ORD_ID 1780	TSTSTAP--K	GST---	VID
Microcoleus_chthonoplastes_PCC_7420_gnl BL_ORD_ID 3381	AAPTQAP--E	KSR---	QVT
Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 3110	SAPTIVTP--D	QGT---	QVV
Raphidiopsis_brookii_D9_gnl BL_ORD_ID 516	PAPTIVTP--D	QGT---	QVI
Thermosynechococcus_elongatus_BP_1_gnl BL_ORD_ID 1087	--MPSVVP--Q	ERQ---	QVT
Synechocystis_sp_PCC_6803_gnl BL_ORD_ID 1103	NAATSTP--D	RLT---	STV
Synechococcus_sp_PCC_7002_gnl BL_ORD_ID 2207	PAPGILK--E	SDR---	QTV
Trichodesmium_erythraeum_IMS101_gnl BL_ORD_ID 3325	SPTTLAP--K	KDS---	QVV
Synechococcus_sp_PCC_7335_gnl BL_ORD_ID 2231			
ClpS2_Synechococcus_7942_ClpS2	AAPATAP--G	TTT---	TRV
Synechococcus_elongatus_PCC_6301_gnl BL_ORD_ID 1043	AAPATAP--G	TTT---	TRV
Synechococcus_elongatus_PCC_7942_gnl BL_ORD_ID 525	AAPATAP--G	TTT---	TRV
Cyanothece_PCC_7425_gnl BL_ORD_ID 3769	PROSPTP--V	QDR---	QTI
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2237	SSATVTP--T	KPE---	TSV
Cyanobium_sp_PCC_7001_gnl BL_ORD_ID 377			
Prochlorococcus_marinus_MIT_9303_gnl BL_ORD_ID 1539	ATPGSTP--L	LER---	AKQ
Prochlorococcus_marinus_MIT_9313_gnl BL_ORD_ID 672	ATPGTTP--L	LER---	AKQ
Synechococcus_CC9605_gnl BL_ORD_ID 1418	SSPGSSA--V	LER---	QGT
Synechococcus_sp_WH_8109_gnl BL_ORD_ID 1922	SSPGSSA--V	LER---	QGT
Synechococcus_WH_8102_gnl BL_ORD_ID 1299	SSPGSSA--L	LER---	QTI
Synechococcus_sp_BL107_gnl BL_ORD_ID 90	SSPSSST--L	LER---	QKT
Synechococcus_sp_CC9902_gnl BL_ORD_ID 1044	SSPSSST--L	LER---	QKT
Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876	SSGAQST--L	LER---	SRT
Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209	SSPGVST--V	LER---	DRQ
Synechococcus_WH_7803_gnl BL_ORD_ID 1209	SSPGVST--V	LER---	DRQ
Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527	SSPGVST--V	LER---	DRQ
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372	TPTGTAT--V	LDR---	ATS
Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389	ATPGTAS--V	LQP---	ERT
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187	AAPGVQT--I	PAG---	IRQ
Synechococcus_RCC307_gnl BL_ORD_ID 1407	SAPSRQT--A	GST---	LLE
Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488	--MAOQA--V	RDK---	QRV
Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119	SSPGGQA--V	MER---	QRV
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497	TRPAQQF--S	PSR---	TQV
Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311	TRPAQQS--S	PSR---	TRV
Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272	TSISTNI--K	HSA---	VID
Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997	MVNSLGT--V	LEP---	KKS
Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999	MFNSLGT--V	LDP---	KKS
Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028	MLNSLST--V	LDQ---	KKS
Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784	MFNSLSI--V	LDQ---	KKS
Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939	MYNSPLI--V	LDN---	KKS
Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514	SANSTTT--V	LDP---	KTT
Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551	SANSTTT--V	LDP---	KTT
Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552	SANSTTT--V	LDP---	KTT
Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389	STNSTTT--V	LDP---	KTT
Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348	STNSTTT--V	LDP---	KTT
Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683	SDNLTTT--V	VDP---	KTT
Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684	SDNLTTT--V	VDP---	KTT
Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473	--MSVET--L	EKR---	STS
Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891	--MSVET--I	EKR---	STS
Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631	--MSVET--I	EKR---	STS
Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 2031			
Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476	--MSVET--I	QKP---	STT
Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476	--MSVET--I	QKP---	STT
Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 6367	GSVSTQT--V	EKT---	STN
Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792	--MSTQT--V	EKT---	STN
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801	--MSTQT--V	EKT---	STN
Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496	--MSVET--I	EKP---	STT
Raphidiopsis_brookii_D9_gnl BL_ORD_ID 1510	--MSVET--I	EKP---	STT
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---	STV

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
 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
 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
 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

--MAVET--I EQR---STV
 --MSVET--I EKR---STV
 PTMSVQT--I EKP---ATV
 --MSIET--I EKP--TTSTV
 MSTSTQV--I EKS--TTSTV
 TSTSTQV--I EKS--STSTV
 --MTTEV--I EKRSTSSATV
 --MTTEV--I EKRSTSSATV
 --MTTEV--I EKRSSSTSTV
 --MTTEV--I EKRSSSTSTV
 -----M--I EKR--STATI
 --MSTGV--I EQR--STSTI
 --MMATEV--L NKP--SNSTI
 --MAVET--I QKP--ETTTK
 --MAVET--I QKP--ETTTK
 --MAVET--I QKP--ETTTK
 --MVTDV--I EKISLNTSTT
 MSTSIST--I EKP--SVSTV
 --MATET--L VKP---SVT
 --MATET--L VKP---SVT
 --SGAAV--M EKA---PERV
 P-GGAAV--L EKQ---TERI
 P-GGAAV--L EKQ---TERI
 P-GGAAV--L DKQ---TERV
 P-GGAAV--V DKQ---TERV
 P-GGAAV--V DKQ---TERV
 P-GGAAV--L DKQ---TERV
 P-GGAAV--L EKA---PERV
 P-GGAAV--L EKA---PERV
 P-GGAAV--M EKA---PERV
 P-GGAAV--L DKA---PERV
 P-GGAAV--L DKA---PEKV
 P-GGAAV--L DKA---PERV
 P-GGAAV--L DKA---PERV
 P-GGAAV--L DKA---PERV
 P-GGAAV--L DKA---PERV

 P-GGAAV--L DKQ---TERV
 S-GGGAV--M EKA---PERV
 S-GGAAV--M EKA---PERV
 P-GGAAV--I EKE---VORV
 PGGGAHV--M ERQ---PETV
 S-NNSAV--I EKK---PAEL
 S-NGSAV--I EKK---PAEL
 S-NNSAV--I EKK---PAEL
 S-NSSAV--I EKK---PAEL

 N-NNAAV--L EKK---TAPL
 N-NNAAV--L EKK---TAPL
 N-NNAAV--L EKK---TAAL
 P-GGATV--I EKQ---SELV
 D-GDTAV--I DRE---VQRV
 D-GDTAV--I DRE---VQRV
 --MSTET--L ERK---SVQ
 TKTPLDP--V KTP---EKT

 STPSTSV--I TKT---KPR
 -----EKV---RDA
 EIEKTES--A EEV---FAV
 EIEKTES--A EEV---FAV
 SNNPDTR--T EEL---IAD

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_gnl|BL_ORD_ID|3325
 Synechococcus_sp_PCC_7335_gnl|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_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_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
 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|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
 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_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

RKPYPNFKVI|VNDDVNTFE
 RKSYPNFKVI|VLNDDFNTFQ
 RKTYPNFKVI|VLNDDFNTFQ
 RKTYPNFKVI|VLNDDFNTFQ
 RKTYPNFKVI|VLNDDFNTFQ
 RKTYPNFKVI|VLNDDFNTFQ
 RKPYPNFKVI|VLNDDFNTFQ
 RKPYPNFKVI|VLNDDFNTFQ

 OOPYPNFKVI|VLNDDFNTFE
 RKPYPNFKVI|VLNDDFNTFQ
 KKTYPNFKVI|VLNDDFNTFQ
 KKTYPNFKVI|VLNDDFNTFE
 NKYPNFKVI|VLNDDFNSFE
 NKYPNFKVI|VLNDDFNSFE
 KKTYPNFKVI|VLNDDFNTFD
 RKPYPNFKVI|VLNDDFNTFN
 RKPYPNFKVI|VLNDDFNTFN
 RKPYPNFKVI|VLDDDFNTFQ
 RKPYPNFKVI|VLNDDFNTFE
 RKPYPNFKVI|VLNDDFNTFE
 RKHYPNFKVI|VLNDDFNTFQ
 RKTYPNFKVI|VLNDDFNTFQ
 RKPYPNFKVI|VLNDDFNTFE
 NKYPNFKVI|VLNDDVNTFK

 ROPYPHFRVI|VLDDDVNTFQ
 ROPYPHFRVI|VLDDDVNTFQ
 ROPYPHFRVI|VLDDDVNTFQ
 ROPYPHYKVI|VLNDDFNTFE
 KALKP-WKVI|VLNDDFNTFQ

 TORYPOARVI|VLNDDVNTFQ
 TORYPOARVI|VLNDDVNTFQ
 TORYPOARVI|VLNDDVNTFQ
 TORYPOARVI|VLDDDVNTFQ
 TORYPOARVI|VLDDDVNTFQ
 TORYPEAKVI|VLDDDVNTFQ
 TORYPEAKVI|VLDDDVNTFQ
 TOGYPEARVI|VLNDDVNTFQ
 AQRYPOARVI|VLNDDFNTFE
 AQRYPOARVI|VLNDDFNTFE
 ALRYPOARVI|VLNDDVNTFE
 RSDYPOARVI|VLDDDVNTFQ
 TLRYPNARVI|VLNDDVNTFE
 RORYPHLRV|VLDDDVNTFQ
 ROPYPNFKV|VLNDEVNTFQ
 DAPYPTGRVI|VLDDDHNTFQ
 ROPYPTGRVI|VLDDDHNTFQ
 ROPYPHFKVI|VLDDDFNTFQ
 ROPYPHFKVI|VLDDDFNTFQ
 YKYPNCKII|VLNDDFNTFD
 KAKYPEARVI|VLDDNFNTFQ
 KAKYPEARVI|VLDDNFNTFQ
 KAKYPEARVI|VLDDSFNTFQ
 KAKYPEARVI|VLDDSSNTFQ
 KVKYPEARVI|VLDDSFNTFQ
 KKKYPEARII|VLDDNFNTFE
 KKKYPEARII|VLDDNFNTFE
 KKKYPEARII|VLDDNFNTFE
 KIKYPEARII|VLDDNFNTFE
 KIKYPEARII|VLDDNFNTFE
 KRKYPKARII|VLDDNFNTFE
 KRKYPKARII|VLDDNFNTFE
 RKLAPRYRVL|LHNDDFNSME
 RKLAPRYRVL|LHNDDYNSME
 RKLAPRYRVL|LHNDDHNSME

 RKLAPRYRVL|LHNDDYNSME
 RKLAPRYRVL|LHNDDYNSME
 RKLAPRYRVL|LHNDDHNPME
 RKLAPRYRVL|LHNDDHNPME
 RKLAPRYRVL|LHNDDYNSME
 RKLAPRYRVL|LHNDDYNSME

 RKLAPRYRVL|LHNDDYNSME

 RKLAPRYRVL|LHNDDFNTME

RKLAPRYRVL	LHNDDEVNSME
RKIAPRYRVL	LHNDDEFNSME
RKLAPRYRVL	LHNDDEVNSME
RKTAPHYRVL	LHNDDEFNSME
RKPAPRYRVL	LHNDDEFNSME
RKPAPRYRVL	LHNDDEFNSME
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RKPAPRYRVL	LHNDDEFNSME
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RKPAPRYRVL	LHNDDEFNSME
RKHAPRYRVL	LHNDDEFNSME
RKIAPRYRVL	LHNDDEFNPME
RKIAPRYRVL	LHNDDEFNPME
RKIAPRYRVL	LHNDDEFNPME
KKPVPRYKVL	LHNDDEFNPM
RKIAPRYRVL	LHNDDEFNSME
PKHMPMYRVL	LHNDDEVNTME
PKHMPMYRVL	LHNDDEVNTME
RKPSPRYKVL	LHNDDEVNSME
RKQSPHYKVL	LHNDDEVNSME
RKQSPHYKVL	LHNDDEVNSME
RKRSPRYKVL	LHNDDEVNSME
RKTSPRYKVL	LHNDDEVNTMD
RKTSPRYKVL	LHNDDEVNTMD
RKTSPRYKVL	LHNDDEVNSME
RKQSPRYKVL	LHNDDEVNSME
RKQSPRYKVL	LHNDDEVNSME
RKQSPRYKVL	LHNDDEVNTME
RKQSPRYKVL	LHNDDEVNSME
RKRSPRYKVL	LHNDDEVNSME
RKRSPRYKVL	LHNDDEVNSME
RKRSPRYKVL	LHNDDEVNSME
RKRSPRYKVL	LHNDDEVNSME
-----ML	LHNDDEVNSME
RKHSPRYKVL	LHNDDEVNTME
RKPSPRYKVL	LHNDDEVNTME
RKPSPRYKVL	LHNDDEVNTME
RKPAPRYRVL	LHNDDEVNSME
RKPAPRYRVL	LHNDDEVNSME
KNKSPKYKVL	LHNDDEVNSME
KNKSPKYKVL	LHNDDEVNSME
KNKSPKYRVL	LHNDDEVNSME
KNKSPKYKVL	LHNDDEVNSME
-----ME	LHNDDEVNSME
KNKSPKYKVL	LHNDDEVNSME
KNKSPKYKVL	LHNDDEVNSME
RKRSPRYKVL	LHNDDEVNSMD
RKISPKYKVL	LHNDDEVNTMD
RKISPKYKVL	LHNDDEVNTMD
RKMPPLYKVL	LHNDDEHTPMN
PLRWRDWVR	LFNDDEVNKFE
-----MI	LVNDDEVTPRE
TKRPNLYRVL	ILNDDEVTPME
LKPPSMYKVI	LVNDDEVTPME
PEPDVPWVTI	VHNDDEVNLMS
PEPDVPWVTI	VHNDDEVNLMS
VDTLDAWRVV	LFNDDEDDHTFE

[illegible]

Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 3792	LTNQIHFEQG	AIVWVGPOEQ
Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 3450	LTNQVHYEQG	AIVWVGPOEP
Nostoc_sp_PCC_7120_gnl BL_ORD_ID 714	LTNQVHYEQG	AIVWVGPOEP
Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3650	LTNQVHYEQG	AIVWVGPOEP
Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3650	LTNQVHYEQG	AIVWVGPOEP
Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 1770	LTNQIHFEQG	AIVWVGPOEM
Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 1627	LTNRVHYEQG	ATVWVGPLEQ
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 4151	LTNRVHYEQG	ATVWVGPLEQ
Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2021	LTNRVHYEQG	ATVWVGPLEQ
Lyngbya_sp_CCY_8106_gnl BL_ORD_ID 4005	LTNQVHFEQG	ATVWVGPLEQ
Oscillatoria_sp_PCC_6506_gnl BL_ORD_ID 1058	LTNQVHYEQG	ATVWVGPOEQ
Cyanothece_PCC_7424_gnl BL_ORD_ID 4383	LTNQVHYEQG	ATVWVGPOEQ
Cyanothece_PCC_7822_gnl BL_ORD_ID 206	LTNQVHFEQG	AIVWVGPOEQ
Cyanothece_PCC_8801_gnl BL_ORD_ID 1764	LTNQVHFEQG	ATVWVGPOEQ
Cyanothece_PCC_8802_gnl BL_ORD_ID 1739	LTNQVHFEQG	ATVWVGPOEQ
Microcystis_aeruginosa_NIES_843_gnl BL_ORD_ID 703	LTNQVHYQGG	AIVWTGPOEQ
Cyanothece_sp_BH68_ATCC_51142_gnl BL_ORD_ID 3651	LTEQVHFEGL	AIVWTGPOEQ
Cyanothece_sp_CCY_0110_gnl BL_ORD_ID 1780	LTEQVHFEGL	AIVWTGPOEQ
Microcoleus_chthonoplastes_PCC_7420_gnl BL_ORD_ID 3381	LTNQVHFEQG	AIVWVGPOEQ
Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 3110	LTNQVHYEQG	AIVWVGPOEQ
Raphidiopsis_brookii_D9_gnl BL_ORD_ID 516	LTNQVHYEQG	AIVWVGPOEQ
Thermosynechococcus_elongatus_BP_1_gnl BL_ORD_ID 1087	LTNQVHYEQG	AIVWVGPOEQ
Synechocystis_sp_PCC_6803_gnl BL_ORD_ID 1103	LTNQVHFDGL	AIVWVGPOEQ
Synechococcus_sp_PCC_7002_gnl BL_ORD_ID 2207	LTNQVHFDGQ	AIVWVGPOEP
Trichodesmium_erythraeum_IMS101_gnl BL_ORD_ID 3325	LTQVHNFEQG	AIVWVGPLEQ
Synechococcus_sp_PCC_7335_gnl BL_ORD_ID 2231	LADQIHNEQG	AIVWTGPLEQ
ClpS2_Synechococcus_7942_ClpS2	LTNQVHYEGA	ATVWSGPQEQ
Synechococcus_elongatus_PCC_6301_gnl BL_ORD_ID 1043	LTNQVHYEGA	ATVWSGPQEQ
Synechococcus_elongatus_PCC_7942_gnl BL_ORD_ID 525	LTNQVHYEGA	ATVWSGPQEQ
Cyanothece_PCC_7425_gnl BL_ORD_ID 3769	LTQVVDREGQ	AIVWVGPOEQ
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2237	LTQQVHSEGR	AIVWVGPLEQ
Cyanobium_sp_PCC_7001_gnl BL_ORD_ID 377	-----	--MWCGPQEQ
Prochlorococcus_marinus_MIT_9303_gnl BL_ORD_ID 1539	LAHQIDGQGS	AEVWCGPLEQ
Prochlorococcus_marinus_MIT_9313_gnl BL_ORD_ID 672	LAHQIDGQGS	AEVWCGPLEQ
Synechococcus_CC9605_gnl BL_ORD_ID 1418	LANRIDGQGS	AEVWCGPLEQ
Synechococcus_sp_WH_8109_gnl BL_ORD_ID 1922	LANRIDGHGA	AEVWCGPLEQ
Synechococcus_WH_8102_gnl BL_ORD_ID 1299	LANRIDGQGS	AEVWCGPLEQ
Synechococcus_sp_BL107_gnl BL_ORD_ID 90	LAHRIDGEGS	AEVWRGPQEQ
Synechococcus_sp_CC9902_gnl BL_ORD_ID 1044	LAHRIDGQGS	AEVWRGPQEQ
Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876	LAHQVDGQGS	AEVWCGPLEQ
Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209	LAHRIDGEGA	AEVWCGPLEQ
Synechococcus_WH_7803_gnl BL_ORD_ID 1209	LAHRIDGEGA	AEVWCGPLEQ
Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527	LARRVDGEGS	AEVWCGPLEQ
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372	LAHRIDSEGA	ADVWSGPQEQ
Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389	LAHQIDGEGA	AEVWAGPLEP
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187	LAHQIDSQGS	AVVWSGPQEQ
Synechococcus_RCC307_gnl BL_ORD_ID 1407	LAQQIDSQGS	AVVWSGPQEQ
Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488	LAHQIDGQGS	ALVWSGPQEQ
Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119	LAHQIDSQGS	AVVWSGPQEQ
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497	LTVQVDAEQG	AVVWVGPOEQ
Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311	LTVOVDAEQG	AVVWVGPOEQ
Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272	LTQKIHFNGF	ATVWMGPQEQ
Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997	LTIKVDKTGS	AEVWRGNLEQ
Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999	LTIKVDKTGS	AEVWRGNLEQ
Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028	LTIKVDKTGS	AEVWRGNLEQ
Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784	LTIKVDKTGS	AEVWRGNLEQ
Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939	LTIKVDNTGS	AEVWRGNLEQ
Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514	LAVEVDREGL	AEIWRGPQEQ
Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551	LAVEVDREGL	AEIWRGPQEQ
Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552	LAVEVDREGL	AEIWRGPQEQ
Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389	LAVEVDREGL	AEVWRGPFEQ
Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348	LAVEVDREGL	AEVWRGPFEQ
Prochlorococcus_marinus_MED4_gnl BL_ORD_ID 683	L-----	-----
Prochlorococcus_marinus_pastoris_CCMP1986_gnl BL_ORD_ID 684	L-----	-----
Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 5473	VMMEAHTNGI	ALVITCAFEH
Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891	IMMEAHTNGL	ALVITCAQEH
Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631	IMMEAHTNGL	ALVITCAQEH
Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 2031	IMMEAHTNGM	ALVITCAQEH
Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476	IMMEAHTNGL	ALVITCALEH
Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476	IMMEAHTNGL	ALVITCALEH
Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 6367	IMMEAHTNGL	ALVITCALEH
Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792	IMMEAHTNGL	ALVITCALEH
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801	IMMEAHTNGL	ALVITCALEH
Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496	IMMEAHSGL	ALVISCALEH
Raphidiopsis_brookii_D9_gnl BL_ORD_ID 1510	IMMEAHSNGL	ALVISCALEH
Lyngbya_sp_CCY_8106_gnl BL_ORD_ID 3908	IMMEAHTNGL	ALVITCAQEH
Microcoleus_chthonoplastes_PCC_7420_gnl BL_ORD_ID 4785	IMMEAHSNGI	ALVITCALEH
Leptolyngbya_valderiana_BDU_20041_gnl BL_ORD_ID 6	IMMEAHTNGM	ALVITCAQEH

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
 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
 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
 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

IMMEAHVNGI ALVITCALEH
 IMMEAHTNGL AVVIICAEH
 IMMEAHLTGV ALVITCALEH
 IMMEAHSNGI ALVIICALEP
 IMMEAHTNGT ALVITCTLEH
 IMMEAHTNGM ALVITCTLEH
 IMMEAHTNGT ALVITCALEH
 IMMEAHTNGT ALVITCALEH
 IMMEAHTNGT ALVITCALEP
 IMMEAHTNGT ALVITCALEP
 IMMEAHTNGT ALVITCIQEH
 IMMEAHTNGI ALVITCVQEH
 IMMEAHFNGM SLVITCELEH
 IMMEAHTNGT GLVITCDIEP
 IMMEAHTNGT GLVITCDIEP
 IMMEAHTNGT GLVITCDIEP
 IMMEAHSNGT ALVITCAFEP
 IMMOTHNTGI GLVIVCEMEH
 IMLEAHHNGV AVVIVVPREH
 IMLEAHNNGV AVVIVVPREH
 VMLEAHNTGV GLVIVCDLEP
 VMLEAHNTGV GLVIVCDLEP
 VMLEAHNTGV GLVIVCDLEP
 VMLEAHNSGV GLVIVCDLEP
 VMLETHNTGI GLVITCDLEP
 VMLETHNTGI GLVITCDLEP
 VMLETHNTGI GLVIVCDIEP
 VMLEAHNTGV GLVIVCDLEP
 VMLEAHNTGV GLVIVCDLEP
 VMIEAHNTGV GLVIVCDLEP
 VMLEAHNTGV GLVIVCDLEP
 VMLEAHNTGV GLVIVCDIEP
 VMLEAHNTGV GLVIVCDIEP
 VMLEAHNTGI GLVIVCDIEP
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 VMLEAHNTGI GLVIVCDIEP
 VMLEAHNTGV GLVIVCDLEP
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 IMLEAHNTGV GLVIVCDLEP
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 IMLEAHNTGV GLVIVCDLEP
 IMLEAHNNGV GLVIVCDLEP
 VMLEAHNTGV GLVIVCDLEP
 IMLETHNNGV GLVITCDLEP
 IMLETHNNGV GLVITCDLEP
 IMLEAHNNGV AVVIVCALEH
 VAWQAHREGV AATYQGPREV
 VMLTAHORGV CVVGVF TKDV
 VMLHVHHHGI GECGVFTYEI
 LMLAVHYQGK AICGVFTA EV
 LMLDVHHKGR AVVSSGTREE
 LMLDVHHKGR AVVSSGTREE
 HTWEVHTRGR AIVYAGEMS

Acaryochloris_marina_MBIC11017_gnl BL_ORD_ID 3792	AELYHMQLR	AG-----LT
Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 3450	AELYHQQLRR	AG-----LT
Nostoc_sp_PCC_7120_gnl BL_ORD_ID 714	AELYHQQLRR	AG-----LT
Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3650	AELYHQQLRR	AG-----LT
Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3650	AELYHQQLRR	AG-----LT
Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 1770	AELYHQQLRR	AG-----LT
Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 1627	AELYHTQLSR	EG-----LT
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 4151	AELYHTQLSR	EG-----LT
Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2021	AELYHTQLSR	EG-----LT
Lyngbya_sp_CCY_8106_gnl BL_ORD_ID 4005	AELYHTQLSR	EG-----LT
Oscillatoria_sp_PCC_6506_gnl BL_ORD_ID 1058	AELYHMQLSR	AG-----LT
Cyanothece_PCC_7424_gnl BL_ORD_ID 4383	AELYHQQLRR	EG-----LT
Cyanothece_PCC_7822_gnl BL_ORD_ID 206	AELYHQQLRR	EG-----LT
Cyanothece_PCC_8801_gnl BL_ORD_ID 1764	AELYHQQLRR	EG-----LT
Cyanothece_PCC_8802_gnl BL_ORD_ID 1739	AELYHQQLRR	EG-----LT
Microcystis_aeruginosa_NIES_843_gnl BL_ORD_ID 703	AELYHQQLRR	EG-----LT
Cyanothece_sp_BH68_ATCC_51142_gnl BL_ORD_ID 3651	AELYHQQLRR	EG-----LT
Cyanothece_sp_CCY_0110_gnl BL_ORD_ID 1780	AELYHQQLRR	EG-----LT
Microcoleus_chthonoplastes_PCC_7420_gnl BL_ORD_ID 3381	AELYHQQLSR	AG-----LT
Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 3110	AELYHQQLRR	AG-----LT
Raphidiopsis_brookii_D9_gnl BL_ORD_ID 516	AELYHQQLRR	AG-----LT
Thermosynechococcus_elongatus_BP_1_gnl BL_ORD_ID 1087	AELYHEQLLR	AG-----LT
Synechocystis_sp_PCC_6803_gnl BL_ORD_ID 1103	AELYHQQLRR	EG-----LT
Synechococcus_sp_PCC_7002_gnl BL_ORD_ID 2207	AELYHQQLRR	EG-----LT
Trichodesmium_erythraeum_IMS101_gnl BL_ORD_ID 3325	AELYHQQLSR	AG-----LT
Synechococcus_sp_PCC_7335_gnl BL_ORD_ID 2231	AELYHSQILR	AG-----LT
ClpS2_Synechococcus_7942_ClpS2	AELYHEQLRR	EG-----LT
Synechococcus_elongatus_PCC_6301_gnl BL_ORD_ID 1043	AELYHEQLRR	EG-----LT
Synechococcus_elongatus_PCC_7942_gnl BL_ORD_ID 525	AELYHEQLRR	EG-----LT
Cyanothece_PCC_7425_gnl BL_ORD_ID 3769	AELYHLQLGO	AG-----LT
Gloeobacter_violaceus_PCC_7421_gnl BL_ORD_ID 2237	AELYHEQLSR	EG-----LT
Cyanobium_sp_PCC_7001_gnl BL_ORD_ID 377	AELYHQQLGA	EG-----LT
Prochlorococcus_marinus_MIT_9303_gnl BL_ORD_ID 1539	AELYHQQLSG	EG-----LT
Prochlorococcus_marinus_MIT_9313_gnl BL_ORD_ID 672	AELYHQQLSG	EG-----LT
Synechococcus_CC9605_gnl BL_ORD_ID 1418	AELYHQQLQA	EG-----LT
Synechococcus_sp_WH_8109_gnl BL_ORD_ID 1922	AELYHQQLOS	EG-----LT
Synechococcus_WH_8102_gnl BL_ORD_ID 1299	AELYHQQLAA	EG-----LT
Synechococcus_sp_BL107_gnl BL_ORD_ID 90	AELYHQQLQT	EG-----LT
Synechococcus_sp_CC9902_gnl BL_ORD_ID 1044	AELYHLQLOT	EG-----LT
Synechococcus_sp_RS9916_gnl BL_ORD_ID 1876	AELYHQQLTG	EG-----LT
Prochlorococcus_sp_WH_7803_gnl BL_ORD_ID 1209	AELYHQQLGA	EG-----LT
Synechococcus_WH_7803_gnl BL_ORD_ID 1209	AELYHQQLGA	EG-----LT
Synechococcus_sp_WH7805_gnl BL_ORD_ID 1527	AELYHQQLGA	DG-----LT
Synechococcus_sp_RS9917_gnl BL_ORD_ID 1372	AELYHQQLSA	EG-----LT
Prochlorococcus_sp_CC9311_gnl BL_ORD_ID 1389	AELYHQQLSS	EG-----LT
Synechococcus_sp_WH5701_gnl BL_ORD_ID 2187	AELYHQQLSQ	EG-----LT
Synechococcus_RCC307_gnl BL_ORD_ID 1407	AELYHMQLGA	EG-----LT
Synechococcus_sp_CB0101_gnl BL_ORD_ID 1488	AELYHQQLGA	EG-----LT
Synechococcus_sp_CB0205_gnl BL_ORD_ID 2119	AELYHQQLLAG	EG-----LT
Synechococcus_sp_JA_2_3B_a2_13_gnl BL_ORD_ID 2497	AELYHQQLLR	EG-----LT
Synechococcus_sp_JA_3_3Ab_gnl BL_ORD_ID 1311	AELYHQQLLR	EG-----LT
Cyanobacterium_sp_UCYN_A_gnl BL_ORD_ID 272	AELYHQQLRR	EG-----LT
Prochlorococcus_marinus_AS9601_gnl BL_ORD_ID 997	AELYHEQLFS	KG-----LT
Prochlorococcus_marinus_MIT_9301_gnl BL_ORD_ID 999	AELYHEQLFS	KG-----LT
Prochlorococcus_marinus_MIT_9215_gnl BL_ORD_ID 1028	AELYHEQLLS	KG-----LT
Prochlorococcus_marinus_MIT_9202_gnl BL_ORD_ID 1784	AELYHEQLLS	KG-----LT
Prochlorococcus_marinus_MIT_9312_gnl BL_ORD_ID 939	AELYHEQLVS	KG-----LT
Prochlorococcus_marinus_MIT_9211_gnl BL_ORD_ID 1514	AELYHQQLIS	KG-----LT
Prochlorococcus_marinus_SS120_gnl BL_ORD_ID 1551	AELYHQQLIS	KG-----LT
Prochlorococcus_marinus_marinus_CCMP1375_gnl BL_ORD_ID 1552	AELYHQQLIS	KG-----LT
Prochlorococcus_marinus_NATL1A_gnl BL_ORD_ID 1389	AELYHQQLIS	KG-----LT
Prochlorococcus_marinus_NATL2A_gnl BL_ORD_ID 1348	AELYHQQLIS	KG-----LT
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	HG-----LT
Anabaena_variabilis_ATCC_29413_gnl BL_ORD_ID 1891	AEFYCETLKD	HG-----LS
Nostoc_sp_PCC_7120_gnl BL_ORD_ID 4631	AEFYCETLKD	HG-----LS
Nodularia_spumigena_CCY9414_gnl BL_ORD_ID 2031	AEFYCETLKS	HG-----LS
Nostoc_punctiforme_ATCC_29133_gnl BL_ORD_ID 3476	AEFYCETLIS	HG-----LS
Nostoc_punctiforme_PCC_73102_gnl BL_ORD_ID 3476	AEFYCETLIS	HG-----LS
Arthrospira_platensis_NIES_39_gnl BL_ORD_ID 6367	AEFYCETLKN	HG-----LT
Arthrospira_platensis_Paraca_gnl BL_ORD_ID 2792	AEFYCETLKN	HG-----LT
Arthrospira_sp_PCC_8005_gnl BL_ORD_ID 2801	AEFYCETLKN	HG-----LT
Cylindrospermopsis_raciborskii_CS_505_gnl BL_ORD_ID 496	AEFYCESLNN	YG-----LT
Raphidiopsis_brookii_D9_gnl BL_ORD_ID 1510	AEFYCESLNN	HG-----LT
Lyngbya_sp_CCY_8106_gnl BL_ORD_ID 3908	AEFYCETLKN	NG-----LT
Microcoleus_chthonoplastes_PCC_7420_gnl BL_ORD_ID 4785	AEFYCETLKN	HG-----LT
Leptolyngbya_valderiana_BDU_20041_gnl BL_ORD_ID 6	AEFYCETLRR	HG-----LS

Acaryochloris_marina_MBIC11017_gnl	BL_ORD_ID	3792	MAPLEAA-
Anabaena_variabilis_ATCC_29413_gnl	BL_ORD_ID	3450	MAPLEAA-
Nostoc_sp_PCC_7120_gnl	BL_ORD_ID	714	MAPLEAA-
Nostoc_punctiforme_ATCC_29133_gnl	BL_ORD_ID	3650	MAPLEAA-
Nostoc_punctiforme_PCC_73102_gnl	BL_ORD_ID	3650	MAPLEAA-
Nodularia_spumigena_CCY9414_gnl	BL_ORD_ID	1770	MAPLEAA-
Arthrospira_platensis_NIES_39_gnl	BL_ORD_ID	1627	MAPLEKA-
Arthrospira_sp_PCC_8005_gnl	BL_ORD_ID	4151	MAPLEKA-
Arthrospira_platensis_Paraca_gnl	BL_ORD_ID	2021	MAPLEKA-
Lyngbya_sp_CCY_8106_gnl	BL_ORD_ID	4005	MAPLEKA-
Oscillatoria_sp_PCC_6506_gnl	BL_ORD_ID	1058	MAPLEQA-
Cyanothece_PCC_7424_gnl	BL_ORD_ID	4383	MAPLEAA-
Cyanothece_PCC_7822_gnl	BL_ORD_ID	206	LAPLEAA-
Cyanothece_PCC_8801_gnl	BL_ORD_ID	1764	MAPLEKA-
Cyanothece_PCC_8802_gnl	BL_ORD_ID	1739	MAPLEKA-
Microcystis_aeruginosa_NIES_843_gnl	BL_ORD_ID	703	MAPLEAA-
Cyanothece_sp_BH68_ATCC_51142_gnl	BL_ORD_ID	3651	MAPLEEA-
Cyanothece_sp_CCY_0110_gnl	BL_ORD_ID	1780	MAPLEEA-
Microcoleus_chthonoplastes_PCC_7420_gnl	BL_ORD_ID	3381	MAPLEAA-
Cylindrospermopsis_raciborskii_CS_505_gnl	BL_ORD_ID	3110	MAPLEAA-
Raphidiopsis_brookii_D9_gnl	BL_ORD_ID	516	MAPLEAA-
Thermosynechococcus_elongatus_BP_1_gnl	BL_ORD_ID	1087	MAPLEPE-
Synechocystis_sp_PCC_6803_gnl	BL_ORD_ID	1103	MAPLEKA-
Synechococcus_sp_PCC_7002_gnl	BL_ORD_ID	2207	MAPLEAA-
Trichodesmium_erythraeum_IMS101_gnl	BL_ORD_ID	3325	MAPLEKA-
Synechococcus_sp_PCC_7335_gnl	BL_ORD_ID	2231	VAPLEKA-
ClpS2_Synechococcus_7942_ClpS2			MAPLEAA-
Synechococcus_elongatus_PCC_6301_gnl	BL_ORD_ID	1043	MAPLEAA-
Synechococcus_elongatus_PCC_7942_gnl	BL_ORD_ID	525	MAPLEAA-
Cyanothece_PCC_7425_gnl	BL_ORD_ID	3769	MAPLELA-
Gloeobacter_violaceus_PCC_7421_gnl	BL_ORD_ID	2237	MAPLEQA-
Cyanobium_sp_PCC_7001_gnl	BL_ORD_ID	377	MAPLERD-
Prochlorococcus_marinus_MIT_9303_gnl	BL_ORD_ID	1539	MAPLERC-
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	MAPLERC-
Synechococcus_WH_8102_gnl	BL_ORD_ID	1299	MAPLERC-
Synechococcus_sp_BL107_gnl	BL_ORD_ID	90	MAPLDRC-
Synechococcus_sp_CC9902_gnl	BL_ORD_ID	1044	MAPLDRC-
Synechococcus_sp_RS9916_gnl	BL_ORD_ID	1876	MAPIERC-
Prochlorococcus_sp_WH_7803_gnl	BL_ORD_ID	1209	MAPIERC-
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	MAPLERN-
Synechococcus_sp_WH5701_gnl	BL_ORD_ID	2187	MAPLERE-
Synechococcus_RCC307_gnl	BL_ORD_ID	1407	MAPLERA-
Synechococcus_sp_CB0101_gnl	BL_ORD_ID	1488	MAPLERG-
Synechococcus_sp_CB0205_gnl	BL_ORD_ID	2119	MAPVERG-
Synechococcus_sp_JA_2_3B_a2_13_gnl	BL_ORD_ID	2497	MAPLEPA-
Synechococcus_sp_JA_3_3Ab_gnl	BL_ORD_ID	1311	MAPLEPA-
Cyanobacterium_sp_UCYN_A_gnl	BL_ORD_ID	272	MAPLEGI-
Prochlorococcus_marinus_AS9601_gnl	BL_ORD_ID	997	MAPIEKT-
Prochlorococcus_marinus_MIT_9301_gnl	BL_ORD_ID	999	MAPIEKT-
Prochlorococcus_marinus_MIT_9215_gnl	BL_ORD_ID	1028	MAPIEKT-
Prochlorococcus_marinus_MIT_9202_gnl	BL_ORD_ID	1784	MAPIEKT-
Prochlorococcus_marinus_MIT_9312_gnl	BL_ORD_ID	939	MAPIDKT-
Prochlorococcus_marinus_MIT_9211_gnl	BL_ORD_ID	1514	MAPIEKT-
Prochlorococcus_marinus_SS120_gnl	BL_ORD_ID	1551	MAPIEQT-
Prochlorococcus_marinus_marinus_CCMP1375_gnl	BL_ORD_ID	1552	MAPIEQT-
Prochlorococcus_marinus_NATL1A_gnl	BL_ORD_ID	1389	MAPIEKT-
Prochlorococcus_marinus_NATL2A_gnl	BL_ORD_ID	1348	MAPIEKT-
Prochlorococcus_marinus_MED4_gnl	BL_ORD_ID	683	-----HS
Prochlorococcus_marinus_pastoris_CCMP1986_gnl	BL_ORD_ID	684	-----HS
Acaryochloris_marina_MBIC11017_gnl	BL_ORD_ID	5473	STIEPDE-
Anabaena_variabilis_ATCC_29413_gnl	BL_ORD_ID	1891	STIEPDE-
Nostoc_sp_PCC_7120_gnl	BL_ORD_ID	4631	STIEPDE-
Nodularia_spumigena_CCY9414_gnl	BL_ORD_ID	2031	STIEPDE-
Nostoc_punctiforme_ATCC_29133_gnl	BL_ORD_ID	3476	STIEPDE-
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	STIEPDE-
Microcoleus_chthonoplastes_PCC_7420_gnl	BL_ORD_ID	4785	STIEPDE-
Leptolyngbya_valderiana_BDU_20041_gnl	BL_ORD_ID	6	SSIEPDD-

