

Supplementary Table 2. Identification of potential acetyltransferases in *Vibrio cholerae*. The presence of GNAT domains in the *V. cholerae* genome was evaluated using the NCBI Conserved Domains search tool. The output for the 38 identified GNAT-domain containing proteins is shown.

Accession	Annotation	Hit type	PSSM-ID	From	To	E-Value	Bitscore	Accession	Short name	Incomplete	Superfamily
KNH51167	GNAT family Acetyltransferase	non-specific	236715	3	122	3.20E-19	77.8003	PRK10562	PRK10562	-	cl17182
		superfamily	327402	3	122	3.20E-19	77.8003	cl17182	NAT_SF superfamily	-	-
		specific	306954	11	119	4.97E-15	66.3794	pfam00583	Acetyltransf_1	-	cl17182
		non-specific	273701	55	133	2.45E-09	51.5607	TIGR01575	rimI	N	cl26092
		superfamily	330913	55	133	2.45E-09	51.5607	cl26092	Acetyltransf_10 superfamily	N	-
		specific	223532	1	133	6.43E-09	51.5358	COG0456	RimI	-	cl26092
		specific	173926	48	90	1.55E-07	45.3445	cd04301	NAT_SF	C	cl17182
KNH48625	hypothetical protein	specific	316066	38	111	8.61E-09	49.3653	pfam13508	Acetyltransf_7	-	cl17182
		superfamily	327402	38	111	8.61E-09	49.3653	cl17182	NAT_SF superfamily	-	-
		specific	173926	42	91	3.19E-05	39.5665	cd04301	NAT_SF	-	cl17182
		non-specific	182373	71	119	0.005929	34.8192	PRK10314	PRK10314	N	cl17182
KNH48790	hemolysin	superfamily	327403	1	287	1.61E-100	306.632	cl17185	LPLAT superfamily	-	-
		specific	153248	52	261	6.71E-77	242.538	cd07986	LPLAT_ACT14924-like	-	cl17185
		specific	316007	329	430	1.33E-31	117.72	pfam13444	Acetyltransf_5	-	cl17185
		superfamily	327403	329	430	1.33E-31	117.72	cl17185	LPLAT superfamily	-	-
		specific	214724	76	199	6.34E-16	73.9286	smart00563	PlsC	-	cl17185
		non-specific	279841	62	196	6.84E-06	45.7323	pfam01553	Acyltransferase	-	cl17185
		non-specific	225717	330	567	1.37E-05	47.0075	COG3176	COG3176	N	cl17185
KNH49141	histone acetyltransferase	specific	306954	48	137	7.90E-19	76.7798	pfam00583	Acetyltransf_1	N	cl17182
		superfamily	327402	48	137	7.90E-19	76.7798	cl17182	NAT_SF superfamily	N	-
		specific	173926	56	120	2.95E-12	58.056	cd04301	NAT_SF	-	cl17182
		non-specific	273701	51	138	5.57E-11	56.5683	TIGR01575	rimI	N	cl26092
		superfamily	330913	51	138	5.57E-11	56.5683	cl26092	Acetyltransf_10 superfamily	N	-
		non-specific	224167	50	139	4.80E-10	54.6312	COG1246	ArgA	NC	cl17182
		non-specific	236088	56	113	3.89E-06	44.0297	PRK07757	PRK07757	NC	cl17182

KNH49221	ribosomal-protein-S5p-alanine acetyltransferase	non-specific	182749	17	189	3.76E-67	203.432	PRK10809	PRK10809	-	cl17182
		superfamily	327402	17	189	3.76E-67	203.432	cl17182	NAT_SF superfamily	-	-
		specific	224584	17	191	2.17E-36	125.061	COG1670	RimL	-	cl26094
		superfamily	330915	17	191	2.17E-36	125.061	cl26094	Acetyltransf_3 superfamily	-	-
		specific	315878	17	161	4.93E-21	83.9334	pfam13302	Acetyltransf_3	-	cl26094
KNH49250	histone acetyltransferase	specific	306954	23	146	7.03E-17	71.387	pfam00583	Acetyltransf_1	-	cl17182
		superfamily	327402	23	146	7.03E-17	71.387	cl17182	NAT_SF superfamily	-	-
		non-specific	273701	35	146	1.62E-14	65.8131	TIGR01575	rimI	-	cl26092
		superfamily	330913	35	146	1.62E-14	65.8131	cl26092	Acetyltransf_10 superfamily	-	-
		specific	223532	46	157	3.58E-13	63.477	COG0456	RimI	N	cl26092
		specific	173926	59	129	4.40E-11	54.9744	cd04301	NAT_SF	-	cl17182
		non-specific	236088	60	128	2.66E-07	47.1113	PRK07757	PRK07757	NC	cl17182
KNH50511	ribosomal-protein-serine acetyltransferase	specific	315878	11	152	1.42E-32	113.209	pfam13302	Acetyltransf_3	-	cl26094
		superfamily	330915	11	152	1.42E-32	113.209	cl26094	Acetyltransf_3 superfamily	-	-
		specific	224584	6	177	1.73E-29	106.956	COG1670	RimL	-	cl26094
		non-specific	182270	7	151	4.10E-11	58.6179	PRK10151	PRK10151	-	cl17182
		superfamily	327402	7	151	4.10E-11	58.6179	cl17182	NAT_SF superfamily	-	-
KNH51829	acetyltransferase	specific	225261	1	93	7.84E-32	106.658	COG2388	YidJ	-	cl17182
		superfamily	327402	1	93	7.84E-32	106.658	cl17182	NAT_SF superfamily	-	-
		specific	317008	14	90	1.46E-27	95.2764	pfam14542	Acetyltransf_CG	-	cl17182
KNH52046	acetyltransferase	specific	225695	1	177	3.10E-53	167.077	COG3153	yhbS	-	cl17182
		superfamily	327402	1	177	3.10E-53	167.077	cl17182	NAT_SF superfamily	-	-
		specific	316066	49	132	7.22E-11	55.5285	pfam13508	Acetyltransf_7	-	cl17182
		specific	173926	53	120	3.57E-08	48.0409	cd04301	NAT_SF	-	cl17182
		superfamily	330913	53	138	1.90E-07	47.6462	cl26092	Acetyltransf_10 superfamily	N	-
		non-specific	236088	54	137	9.51E-05	40.5629	PRK07757	PRK07757	N	cl17182
		non-specific	132489	86	132	0.000827	38.5364	TIGR03448	mycothiol_MshD	N	cl26092
KNH51231	hypothetical protein	specific	316217	36	158	7.23E-20	79.6178	pfam13673	Acetyltransf_10	-	cl26092
		superfamily	330913	36	158	7.23E-20	79.6178	cl26092	Acetyltransf_10 superfamily	-	-
		specific	224584	3	157	2.87E-18	76.9106	COG1670	RimL	-	cl26094
		superfamily	330915	3	157	2.87E-18	76.9106	cl26094	Acetyltransf_3 superfamily	-	-

		superfamily	327402	14	132	1.07E-12	60.6014	cl17182	NAT_SF superfamily	-	-
		non-specific	273701	31	135	7.06E-08	48.0939	TIGR01575	rimI	-	cl26092
		specific	173926	53	104	0.000223	37.2553	cd04301	NAT_SF	-	cl17182
		non-specific	181904	85	136	0.000666	37.6014	PRK09491	rimI	N	cl17182
KNH51251	acetyltransferase	specific	316066	88	154	5.24E-08	47.8245	pfam13508	Acetyltransf_7	N	cl17182
		superfamily	327402	88	154	5.24E-08	47.8245	cl17182	NAT_SF superfamily	N	-
		superfamily	330913	96	169	3.26E-07	46.8758	cl26092	Acetyltransf_10 superfamily	N	-
		non-specific	225695	92	158	2.25E-05	42.272	COG3153	yhbS	NC	cl17182
		non-specific	273701	96	154	0.001209	36.9231	TIGR01575	rimI	N	cl26092
		non-specific	140351	101	162	0.004836	35.5883	PTZ00330	PTZ00330	N	cl17182
KNH51324	acetyltransferase	specific	223972	1	637	0	671.76	COG1042	ACCS	-	cl26126
		superfamily	330947	1	637	0	671.76	cl26126	Ligase_CoA superfamily	-	-
		non-specific	131764	4	453	8.19E-145	435.971	TIGR02717	AcCoA-syn-alpha	-	cl26126
		specific	316106	493	706	3.09E-87	277.033	pfam13549	ATP-grasp_5	-	cl17255
		superfamily	327410	493	706	3.09E-87	277.033	cl17255	CPSase_L_D2 superfamily	-	-
		superfamily	328723	11	138	3.69E-27	106.452	cl21454	NADB_Rossmann superfamily	-	-
		specific	214881	7	100	1.28E-14	70.2314	smart00881	CoA_binding	-	cl21454
		specific	306954	762	875	1.24E-09	56.3642	pfam00583	Acetyltransf_1	-	cl17182
		superfamily	327402	762	875	1.24E-09	56.3642	cl17182	NAT_SF superfamily	-	-
		non-specific	224168	820	875	1.11E-05	46.5416	COG1247	YncA	N	cl26093
		superfamily	330914	820	875	1.11E-05	46.5416	cl26093	Acetyltransf_4 superfamily	N	-
		superfamily	330913	736	875	9.04E-05	43.8319	cl26092	Acetyltransf_10 superfamily	-	-
		specific	173926	793	855	0.003802	36.4849	cd04301	NAT_SF	-	cl17182
		non-specific	273701	822	887	0.008508	37.3083	TIGR01575	rimI	N	cl26092
KNH51486	acetyltransferase	specific	226489	1	171	1.42E-83	243.439	COG3981	COG3981	-	cl17182
		superfamily	327402	1	171	1.42E-83	243.439	cl17182	NAT_SF superfamily	-	-
		specific	315878	3	148	4.45E-10	54.6582	pfam13302	Acetyltransf_3	-	cl26094
		superfamily	330915	3	148	4.45E-10	54.6582	cl26094	Acetyltransf_3 superfamily	-	-
		superfamily	330913	72	139	4.43E-05	41.5207	cl26092	Acetyltransf_10 superfamily	NC	-
		specific	173926	65	131	4.86E-05	39.1813	cd04301	NAT_SF	-	cl17182

		non-specific	132489	64	145	0.000195	40.4624	TIGR03448	mycothiol_MshD	N	cl26092
		non-specific	236088	100	130	0.001116	37.4813	PRK07757	PRK07757	NC	cl17182
KNH51647	spermidine N1-acetyltransferase	non-specific	237916	3	171	6.63E-74	219.668	PRK15130	PRK15130	-	cl17182
		superfamily	327402	3	171	6.63E-74	219.668	cl17182	NAT_SF superfamily	-	-
		specific	224584	1	173	4.62E-33	115.816	COG1670	RimL	-	cl26094
		superfamily	330915	1	173	4.62E-33	115.816	cl26094	Acetyltransf_3 superfamily	-	-
		specific	315878	5	140	1.92E-18	76.6146	pfam13302	Acetyltransf_3	-	cl26094
		non-specific	274661	48	162	5.46E-12	60.0651	TIGR03585	PseH	N	cl26094
		specific	173926	58	122	1.75E-05	40.7221	cd04301	NAT_SF	-	cl17182
KNH51190	hypothetical protein	specific	224584	1	178	7.80E-36	123.135	COG1670	RimL	-	cl26094
		superfamily	330915	1	178	7.80E-36	123.135	cl26094	Acetyltransf_3 superfamily	-	-
		specific	315878	8	147	1.12E-26	98.1858	pfam13302	Acetyltransf_3	-	cl26094
		superfamily	327402	67	146	2.68E-09	52.127	cl17182	NAT_SF superfamily	N	-
		non-specific	237916	4	177	3.59E-08	50.5655	PRK15130	PRK15130	-	cl17182
		non-specific	274661	8	156	0.000105	40.4199	TIGR03585	PseH	-	cl26094
		specific	173926	72	129	0.006892	33.4033	cd04301	NAT_SF	-	cl17182
KNH51238	histone acetyltransferase	specific	306954	32	133	4.84E-12	58.6754	pfam00583	Acetyltransf_1	-	cl17182
		superfamily	327402	32	133	4.84E-12	58.6754	cl17182	NAT_SF superfamily	-	-
		specific	223532	1	144	7.75E-09	51.5358	COG0456	RimI	-	cl26092
		superfamily	330913	1	144	7.75E-09	51.5358	cl26092	Acetyltransf_10 superfamily	-	-
		non-specific	273701	51	144	4.29E-08	48.8643	TIGR01575	rimI	N	cl26092
		specific	173926	55	116	9.12E-07	43.4185	cd04301	NAT_SF	-	cl17182
		non-specific	182266	5	142	0.000155	39.1293	PRK10146	PRK10146	-	cl17182
KNH48577	hypothetical protein	specific	316066	39	144	3.17E-08	48.2097	pfam13508	Acetyltransf_7	-	cl17182
		superfamily	327402	39	144	3.17E-08	48.2097	cl17182	NAT_SF superfamily	-	-
		superfamily	330913	22	145	4.15E-08	48.8018	cl26092	Acetyltransf_10 superfamily	-	-
		non-specific	223532	88	144	4.23E-05	41.5207	COG0456	RimI	N	cl26092
KNH48605	acetyltransferase	non-specific	235142	1	135	2.88E-24	90.7582	PRK03624	PRK03624	-	cl26092
		superfamily	330913	1	135	2.88E-24	90.7582	cl26092	Acetyltransf_10 superfamily	-	-
		specific	223532	1	141	2.18E-20	81.9666	COG0456	RimI	-	cl26092
		specific	306954	19	123	4.59E-16	69.0758	pfam00583	Acetyltransf_1	-	cl17182

		superfamily	327402	19	123	4.59E-16	69.0758	cl17182	NAT_SF superfamily	-	-
		specific	173926	47	107	5.97E-10	51.8928	cd04301	NAT_SF	-	cl17182
		non-specific	273701	49	132	2.21E-09	51.9459	TIGR01575	rimI	N	cl26092
KNH48920	acetyltransferase	specific	225695	1	167	9.58E-69	205.597	COG3153	yhbS	-	cl17182
		superfamily	327402	1	167	9.58E-69	205.597	cl17182	NAT_SF superfamily	-	-
		specific	316066	44	123	1.28E-10	54.7581	pfam13508	Acetyltransf_7	-	cl17182
		non-specific	236088	1	130	9.80E-08	48.652	PRK07757	PRK07757	-	cl17182
		specific	173926	44	110	1.86E-07	45.7297	cd04301	NAT_SF	-	cl17182
		superfamily	330913	1	127	2.48E-06	44.9875	cl26092	Acetyltransf_10 superfamily	-	-
		non-specific	273701	35	127	5.93E-05	40.3899	TIGR01575	rimI	-	cl26092
KNH48918	ribosomal-protein-alanine acetyltransferase	non-specific	181904	1	144	2.39E-48	152.391	PRK09491	rimI	-	cl17182
		superfamily	327402	1	144	2.39E-48	152.391	cl17182	NAT_SF superfamily	-	-
		non-specific	273701	12	144	5.70E-46	145.935	TIGR01575	rimI	-	cl26092
		superfamily	330913	12	144	5.70E-46	145.935	cl26092	Acetyltransf_10 superfamily	-	-
		specific	223532	1	147	1.82E-24	92.367	COG0456	RimI	-	cl26092
		specific	306954	13	121	7.72E-16	68.6906	pfam00583	Acetyltransf_1	-	cl17182
		specific	173926	45	104	7.00E-08	46.5001	cd04301	NAT_SF	-	cl17182
KNH49776	galactoside O- acetyltransferase	specific	312863	157	297	5.55E-73	220.939	pfam09500	YiiD_C	-	cl00509
		superfamily	321012	157	297	5.55E-73	220.939	cl00509	hot_dog superfamily	-	-
		non-specific	131500	164	297	2.35E-51	165.604	TIGR02447	yiiD_Cterm	-	cl00509
		specific	306954	13	122	1.37E-09	54.8234	pfam00583	Acetyltransf_1	-	cl17182
		superfamily	327402	13	122	1.37E-09	54.8234	cl17182	NAT_SF superfamily	-	-
		superfamily	330913	58	144	1.53E-09	54.965	cl26092	Acetyltransf_10 superfamily	N	-
		non-specific	140351	67	125	9.75E-06	44.4479	PTZ00330	PTZ00330	N	cl17182
		non-specific	225064	35	146	3.84E-05	43.0878	COG2153	ElaA	N	cl28579
		superfamily	225064	35	146	3.84E-05	43.0878	cl28579	ElaA superfamily	N	-
		non-specific	273701	63	128	0.000338	39.6195	TIGR01575	rimI	N	cl26092
		non-specific	224961	158	297	0.001007	38.5173	COG2050	Paal	-	cl00509
		specific	173926	56	108	0.003425	35.3293	cd04301	NAT_SF	-	cl17182
KNH48589	acetyltransferase	specific	224584	1	168	9.99E-16	70.7474	COG1670	RimL	-	cl26094
		superfamily	330915	1	168	9.99E-16	70.7474	cl26094	Acetyltransf_3 superfamily	-	-
		specific	306954	33	143	9.95E-13	60.9866	pfam00583	Acetyltransf_1	-	cl17182

		superfamily	327402	33	143	9.95E-13	60.9866	cl17182	NAT_SF superfamily	-	-
		non-specific	182263	122	168	2.36E-06	44.9715	PRK10140	PRK10140	N	cl17182
		non-specific	274661	38	165	3.75E-06	44.2719	TIGR03585	PseH	-	cl26094
		specific	173926	61	126	4.81E-05	39.1813	cd04301	NAT_SF	-	cl17182
KNH51138	leucyl/phenylalanyl-tRNA-protein transferase	specific	234720	3	237	5.74E-130	366.062	PRK00301	aat	-	cl17182
		superfamily	327402	3	237	5.74E-130	366.062	cl17182	NAT_SF superfamily	-	-
		specific	225235	13	232	2.84E-125	353.92	COG2360	Aat	-	cl17182
		specific	273207	34	214	1.37E-114	325.657	TIGR00667	aat	-	cl17182
		specific	308920	37	206	1.23E-100	289.663	pfam03588	Leu_Phe_trans	-	cl17182
KNH49567	ElaA protein	specific	225064	1	149	1.40E-86	249.555	COG2153	ElaA	-	cl28579
		superfamily	225064	1	149	1.40E-86	249.555	cl28579	ElaA superfamily	-	-
		non-specific	182373	1	148	2.54E-52	162.705	PRK10314	PRK10314	-	cl17182
		superfamily	327402	1	148	2.54E-52	162.705	cl17182	NAT_SF superfamily	-	-
		specific	316217	38	148	6.84E-20	79.2326	pfam13673	Acetyltransf_10	-	cl26092
		superfamily	330913	38	148	6.84E-20	79.2326	cl26092	Acetyltransf_10 superfamily	-	-
KNH51202	GNAT family Acetyltransferase	specific	173926	50	106	1.22E-07	45.7297	cd04301	NAT_SF	-	cl17182
		non-specific	236715	3	122	1.81E-18	75.8743	PRK10562	PRK10562	-	cl17182
		superfamily	327402	3	122	1.81E-18	75.8743	cl17182	NAT_SF superfamily	-	-
		specific	306954	11	119	1.43E-15	67.535	pfam00583	Acetyltransf_1	-	cl17182
		non-specific	273701	55	133	2.09E-09	51.9459	TIGR01575	rimI	N	cl26092
		superfamily	330913	55	133	2.09E-09	51.9459	cl26092	Acetyltransf_10 superfamily	N	-
		specific	223532	1	130	6.30E-09	51.5358	COG0456	RimI	-	cl26092
KNH51471	hemolysin	specific	173926	48	92	1.39E-07	45.3445	cd04301	NAT_SF	C	cl17182
		specific	153248	52	261	4.67E-101	304.555	cd07986	LPLAT_ACT14924-like	-	cl17185
		superfamily	327403	52	261	4.67E-101	304.555	cl17185	LPLAT superfamily	-	-
		specific	225717	1	286	1.47E-100	306.247	COG3176	COG3176	-	cl17185
		specific	316007	328	429	3.32E-28	108.09	pfam13444	Acetyltransf_5	-	cl17185

		superfamily	327403	328	429	3.32E-28	108.09	cl17185	LPLAT superfamily	-	-
		specific	214724	75	197	1.69E-15	72.773	smart00563	PlsC	-	cl17185
		non-specific	225717	275	574	8.05E-06	47.7779	COG3176	COG3176	-	cl17185
		non-specific	279841	67	158	8.46E-06	45.3471	pfam01553	Acyltransferase	C	cl17185
KNH50323	GNAT family Acetyltransferase	non-specific	211834	481	821	0	598.326	TIGR03536	DapD_gpp	-	cl25962
		superfamily	330783	481	821	0	598.326	cl25962	THDPS_M superfamily	-	-
		specific	314647	157	359	1.94E-107	327.58	pfam11814	DUF3335	-	cl00296
		superfamily	320884	157	359	1.94E-107	327.58	cl00296	Peptidase_C39_like superfamily	-	-
		specific	225082	563	820	3.62E-102	316.555	COG2171	DapD	-	cl25958
		superfamily	330779	563	820	3.62E-102	316.555	cl25958	THDPS_N_2 superfamily	-	-
		specific	100054	658	804	1.88E-83	262.734	cd04649	LbH_THP_succinylT_putative	-	cl00160
		superfamily	320789	658	804	1.88E-83	262.734	cl00160	LbetaH superfamily	-	-
		specific	223532	1	151	4.41E-28	111.242	COG0456	RimI	-	cl26092
		superfamily	330913	1	151	4.41E-28	111.242	cl26092	Acetyltransf_10 superfamily	-	-
		non-specific	273701	10	135	2.69E-23	95.8586	TIGR01575	rimI	-	cl26092
		specific	306954	26	123	3.36E-18	80.6318	pfam00583	Acetyltransf_1	-	cl17182
		superfamily	327402	26	123	3.36E-18	80.6318	cl17182	NAT_SF superfamily	-	-
		specific	317226	609	649	3.53E-17	75.2307	pfam14789	THDPS_M	-	cl25962
		non-specific	235142	1	123	2.81E-15	73.039	PRK03624	PRK03624	-	cl26092
		specific	173926	43	106	3.08E-09	53.4336	cd04301	NAT_SF	-	cl17182
		non-specific	234858	661	758	2.44E-06	50.1375	PRK00892	lpxD	NC	cl28358
		superfamily	333178	661	758	2.44E-06	50.1375	cl28358	LpxD superfamily	NC	-
KNH51243	hypothetical protein	specific	316217	36	154	1.70E-20	83.0846	pfam13673	Acetyltransf_10	-	cl26092
		superfamily	330913	36	154	1.70E-20	83.0846	cl26092	Acetyltransf_10 superfamily	-	-
		specific	224584	3	138	6.21E-15	69.977	COG1670	RimL	-	cl26094
		superfamily	330915	3	138	6.21E-15	69.977	cl26094	Acetyltransf_3 superfamily	-	-
		superfamily	327402	14	132	8.78E-13	62.5274	cl17182	NAT_SF superfamily	-	-
		non-specific	273701	31	135	8.65E-08	49.2495	TIGR01575	rimI	-	cl26092
		specific	173926	53	104	0.000359	37.6405	cd04301	NAT_SF	-	cl17182

		non-specific	181904	85	137	0.00301	36.831	PRK09491	rimI	N	cl17182
KNH49551	acetyltransferase	specific	315878	7	139	7.90E-16	70.0662	pfam13302	Acetyltransf_3	-	cl26094
		superfamily	330915	7	139	7.90E-16	70.0662	cl26094	Acetyltransf_3 superfamily	-	-
		specific	224584	1	147	8.48E-15	68.4362	COG1670	RimL	-	cl26094
KNH52093	acetyltransferase gnat family protein	specific	224584	42	139	1.04E-10	56.8802	COG1670	RimL	N	cl26094
		superfamily	330915	42	139	1.04E-10	56.8802	cl26094	Acetyltransf_3 superfamily	N	-
		specific	315878	64	141	4.45E-10	54.273	pfam13302	Acetyltransf_3	N	cl26094
		non-specific	319965	67	150	0.000412	37.761	cd16358	GlxI_Ni	N	cl14632
		superfamily	326334	67	150	0.000412	37.761	cl14632	VOC superfamily	N	-
KNH49015	GNAT family Acetyltransferase	specific	306954	8	120	1.60E-09	52.127	pfam00583	Acetyltransf_1	-	cl17182
		superfamily	327402	8	120	1.60E-09	52.127	cl17182	NAT_SF superfamily	-	-
		specific	173926	41	100	1.20E-07	45.7297	cd04301	NAT_SF	-	cl17182
		non-specific	131459	30	96	3.35E-06	43.9405	TIGR02406	ectoine_EctA	C	cl17182
		non-specific	182877	70	123	6.58E-06	43.3795	PRK10975	PRK10975	N	cl17182
		non-specific	225910	40	101	2.32E-05	42.1125	COG3375	COG3375	C	cl17182
KNH50816	GGDEF family protein	non-specific	131459	784	935	1.78E-61	205.339	TIGR02406	ectoine_EctA	-	cl17182
		superfamily	327402	784	935	1.78E-61	205.339	cl17182	NAT_SF superfamily	-	-
		specific	225109	489	643	3.94E-22	94.4395	COG2199	GGDEF	-	cl11967
		superfamily	325147	489	643	3.94E-22	94.4395	cl11967	Nucleotidyl_cyc_III superfamily	-	-
		specific	143635	491	648	8.50E-19	84.1452	cd01949	GGDEF	-	cl11967
		non-specific	128563	489	641	1.76E-16	77.6729	smart00267	GGDEF	-	cl11967
		non-specific	272984	489	647	7.79E-15	72.7549	TIGR00254	GGDEF	-	cl11967
		non-specific	307227	493	645	2.94E-13	68.0422	pfam00990	GGDEF	-	cl11967
		specific	306954	823	903	1.19E-12	65.2238	pfam00583	Acetyltransf_1	N	cl17182
		non-specific	274350	200	471	5.24E-12	69.7272	TIGR02917	PEP_TPR_lipo	NC	cl26002
		superfamily	330823	200	471	5.24E-12	69.7272	cl26002	TPR_11 superfamily	NC	-
		non-specific	176974	200	299	1.40E-10	60.7918	CHL00033	ycf3	N	cl26004
		superfamily	330825	200	299	1.40E-10	60.7918	cl26004	PRK02603 superfamily	N	-
		specific	173926	824	876	3.43E-09	53.4336	cd04301	NAT_SF	-	cl17182
		non-specific	182070	493	579	4.57E-09	60.4565	PRK09776	PRK09776	NC	cl25447
		superfamily	330268	493	579	4.57E-09	60.4565	cl25447	COG5001 superfamily	NC	-

		specific	223533	193	408	2.78E-07	52.9261	COG0457	TPR	N	cl26002
		specific	315987	225	289	6.68E-07	47.382	pfam13424	TPR_12	-	cl26181
		superfamily	315987	225	289	6.68E-07	47.382	cl26181	TPR_12 superfamily	-	-
		specific	223532	825	903	2.70E-05	45.3727	COG0456	RimI	N	cl26092
		superfamily	330913	825	903	2.70E-05	45.3727	cl26092	Acetyltransf_10 superfamily	N	-
KNH51206	acetyltransferase	specific	224584	16	183	9.02E-16	71.1326	COG1670	RimL	-	cl26094
		superfamily	330915	16	183	9.02E-16	71.1326	cl26094	Acetyltransf_3 superfamily	-	-
		specific	306954	48	158	7.07E-13	61.757	pfam00583	Acetyltransf_1	-	cl17182
		superfamily	327402	48	158	7.07E-13	61.757	cl17182	NAT_SF superfamily	-	-
		non-specific	274661	53	180	7.65E-07	46.5831	TIGR03585	PseH	-	cl26094
		non-specific	182263	137	183	2.98E-06	44.9715	PRK10140	PRK10140	N	cl17182
		specific	173926	76	141	3.70E-05	39.9517	cd04301	NAT_SF	-	cl17182
KNH51870	hypothetical protein	specific	224361	15	677	0	667.928	COG1444	TmcA	-	cl25451
		superfamily	330272	15	677	0	667.928	cl25451	tRNA_bind_3 superfamily	-	-
		specific	310013	179	344	1.11E-74	237.452	pfam05127	Helicase_RecD	-	cl21455
		superfamily	328724	179	344	1.11E-74	237.452	cl21455	P-loop_NTPase superfamily	-	-
		superfamily	327402	378	540	1.28E-21	93.8491	cl17182	NAT_SF superfamily	-	-
		specific	173926	465	496	2.46E-05	42.2629	cd04301	NAT_SF	N	cl17182
		non-specific	273701	468	491	3.52E-05	43.8567	TIGR01575	rimI	NC	cl26092
		superfamily	330913	468	491	3.52E-05	43.8567	cl26092	Acetyltransf_10 superfamily	NC	-
		non-specific	181904	471	492	0.000188	41.8386	PRK09491	rimI	NC	cl17182
KNH52084	acetyltransferase	specific	306954	14	134	1.10E-15	68.3054	pfam00583	Acetyltransf_1	-	cl17182
		superfamily	327402	14	134	1.10E-15	68.3054	cl17182	NAT_SF superfamily	-	-
		specific	173926	50	116	1.40E-10	53.4336	cd04301	NAT_SF	-	cl17182
		superfamily	330913	32	137	4.54E-10	53.8094	cl26092	Acetyltransf_10 superfamily	-	-
		specific	223532	55	143	5.35E-09	51.921	COG0456	RimI	N	cl26092
		non-specific	273701	90	143	5.13E-05	40.3899	TIGR01575	rimI	N	cl26092
		non-specific	181904	92	143	0.005125	34.905	PRK09491	rimI	N	cl17182
OFJ38839	acetyltransferase	non-specific	236715	2	39	3.30E-05	38.1248	PRK10562	PRK10562	N	cl17182
		superfamily	327402	2	39	3.30E-05	38.1248	cl17182	NAT_SF superfamily	N	-
OFJ39431	GNAT family N-acetyltransferase	specific	315878	9	141	6.11E-16	70.4514	pfam13302	Acetyltransf_3	-	cl26094
		superfamily	330915	9	141	6.11E-16	70.4514	cl26094	Acetyltransf_3 superfamily	-	-

		specific	224584	1	149	4.72E-15	69.2066	COG1670	RimL	-	cl26094
OFJ40229	acetyltransferase	non-specific	236715	2	39	3.30E-05	38.1248	PRK10562	PRK10562	N	cl17182
		superfamily	327402	2	39	3.30E-05	38.1248	cl17182	NAT_SF superfamily	N	-