

Table S2 - *Klebsiella pneumoniae* pangenome

organism	nb_ familie s	nb_ persisten t_ families	nb_shell_ families	nb_cloud _families	nb_ exact _core	nb_soft _core	nb_ genes	nb_ persisten t_ genes	nb_shell _genes	nb_cloud _genes	nb_ exact_ core_ genes	nb_soft _core_ genes	compl etenes s	nb_ single_ copy_ marker s
GCF_000009885.1	4970	4322	430	218	0	4082	5018	4352	447	219	0	4098	98.48	4275
GCF_000016305.1	5138	4326	567	245	0	4092	5291	4380	666	245	0	4116	98.57	4279
GCF_000220485.1	5029	4310	433	286	0	4081	5071	4341	444	286	0	4098	98.25	4265
GCF_000240185.1	5375	4274	795	306	0	4037	5451	4305	840	306	0	4048	97.35	4226
GCF_000281435.2	5281	4378	876	27	0	4116	5464	4417	1016	31	0	4136	99.75	4330
GCF_000281535.2	5278	4377	879	22	0	4116	5463	4416	1021	26	0	4136	99.72	4329
GCF_000294365.1	4835	4309	298	228	0	4072	4865	4329	307	229	0	4085	98.2	4263
GCF_000364385.3	5376	4371	849	156	0	4108	5510	4415	936	159	0	4132	99.59	4323
GCF_000406765.2	5143	4367	706	70	0	4109	5239	4398	768	73	0	4126	99.49	4319
GCF_000417085.2	5247	4355	814	78	0	4098	5365	4388	899	78	0	4113	99.22	4307
GCF_000417225.2	5249	4347	778	124	0	4086	5385	4384	870	131	0	4105	99.06	4300
GCF_000417265.2	5141	4364	731	46	0	4105	5215	4394	775	46	0	4120	99.42	4316
GCF_000445405.1	5241	4270	724	247	0	4015	5340	4303	790	247	0	4030	97.33	4225
GCF_000465975.2	4966	4304	449	213	0	4106	5000	4326	461	213	0	4123	98.16	4261
GCF_000474015.1	4719	4345	239	135	0	4108	4735	4360	240	135	0	4120	99.15	4304
GCF_000512165.1	5288	4334	689	265	0	4100	5370	4393	712	265	0	4120	98.76	4287
GCF_000597905.1	5018	4355	603	60	0	4102	5095	4378	655	62	0	4115	99.24	4308
GCF_000598005.1	5120	4264	792	64	0	4026	5229	4289	868	72	0	4043	97.21	4220
GCF_000695935.1	5590	4291	734	565	0	4096	5880	4378	915	587	0	4147	97.86	4248
GCF_000714675.1	5282	4361	866	55	0	4100	5418	4410	951	57	0	4122	99.35	4313
GCF_000717515.1	5054	4359	652	43	0	4112	5111	4384	684	43	0	4124	99.31	4311
GCF_000733255.1	5267	4330	772	165	0	4106	5353	4362	823	168	0	4124	98.69	4284

GCF_000739495.1	5095	4359	601	135	0	4113	5162	4390	628	144	0	4129	99.33	4312
GCF_000742755.1	4883	4305	347	231	0	4102	4915	4332	350	233	0	4115	98.2	4263
GCF_000764615.1	5414	4328	907	179	0	4107	5552	4376	994	182	0	4134	98.64	4282
GCF_000775375.1	5185	4343	793	49	0	4104	5321	4389	883	49	0	4136	98.96	4296
GCF_000775395.1	5378	4375	959	44	0	4110	5509	4418	1047	44	0	4131	99.68	4327
GCF_000775955.1	4677	4335	222	120	0	4111	4698	4348	227	123	0	4124	98.89	4293
GCF_000784945.1	5060	4315	398	347	0	4101	5152	4367	430	355	0	4117	98.39	4271
GCF_000784985.1	5104	4357	669	78	0	4111	5159	4382	699	78	0	4123	99.26	4309
GCF_000785005.1	5012	4300	592	120	0	4085	5081	4351	610	120	0	4102	97.97	4253
GCF_000807395.2	5227	4356	752	119	0	4090	5317	4393	805	119	0	4106	99.24	4308
GCF_000813205.1	4829	4348	332	149	0	4106	4892	4398	344	150	0	4142	99.24	4308
GCF_000814305.1	5198	4370	781	47	0	4112	5316	4418	850	48	0	4135	99.56	4322
GCF_000814805.1	4813	4294	275	244	0	4087	4838	4310	278	250	0	4103	97.97	4253
GCF_000916415.1	53	0	0	53	0	0	53	0	0	53	0	0	0	0
GCF_000968155.1	5199	4278	531	390	0	4069	5278	4300	565	413	0	4084	97.6	4237
GCF_000981845.1	5186	4325	539	322	0	4105	5269	4375	571	323	0	4129	98.53	4277
GCF_001022035.1	5137	4373	641	123	0	4113	5231	4408	700	123	0	4129	99.65	4326
GCF_001022175.1	5345	4293	694	358	0	4058	5512	4340	806	366	0	4074	97.81	4246
GCF_001022235.1	5149	4370	622	157	0	4108	5270	4407	703	160	0	4127	99.56	4322
GCF_001307175.1	5188	4330	708	150	0	4108	5242	4349	739	154	0	4122	98.71	4285
GCF_001316565.3	5319	4316	667	336	0	4094	5478	4354	779	345	0	4116	98.32	4268
GCF_001455995.1	5540	4343	878	319	0	4109	5631	4381	922	328	0	4128	98.94	4295
GCF_001456055.3	5264	4333	668	263	0	4103	5333	4369	694	270	0	4122	98.71	4285
GCF_001456095.3	5237	4333	644	260	0	4103	5303	4367	669	267	0	4120	98.71	4285
GCF_001456135.1	5402	4342	704	356	0	4094	5576	4395	816	365	0	4115	98.94	4295
GCF_001482345.1	4970	4335	332	303	0	4100	5040	4368	365	307	0	4116	98.78	4288
GCF_001521895.1	5042	4331	566	145	0	4107	5102	4347	598	157	0	4120	98.76	4287
GCF_001529935.1	5163	4356	572	235	0	4113	5218	4386	596	236	0	4130	99.26	4309
GCF_001530015.1	4965	4269	496	200	0	4056	5005	4302	502	201	0	4076	97.35	4226
GCF_001548315.1	5034	4136	311	587	0	3972	5077	4149	340	588	0	3982	94.43	4099

GCF_001611055.1	5061	4278	436	347	0	4096	5082	4289	446	347	0	4106	97.6	4237
GCF_001611095.1	4988	4276	447	265	0	4097	5017	4290	461	266	0	4110	97.51	4233
GCF_001644765.1	5615	4330	914	371	0	4106	5736	4387	968	381	0	4143	98.64	4282
GCF_001646625.1	5013	4309	393	311	0	4097	5054	4336	403	315	0	4116	98.27	4266
GCF_001648215.1	5054	4349	655	50	0	4113	5101	4375	675	51	0	4129	99.08	4301
GCF_001663195.1	4896	4308	420	168	0	4090	4981	4348	465	168	0	4106	98.18	4262
GCF_001663295.1	5339	4346	600	393	0	4101	5432	4400	633	399	0	4133	99.01	4298
GCF_001663435.1	5075	4339	528	208	0	4105	5156	4372	573	211	0	4122	98.85	4291
GCF_001663455.1	5229	4320	517	392	0	4095	5357	4389	564	404	0	4145	98.46	4274
GCF_001675125.1	5225	4371	825	29	0	4110	5392	4409	950	33	0	4130	99.59	4323
GCF_001676825.1	5012	4308	396	308	0	4096	5054	4333	405	316	0	4113	98.25	4265
GCF_001701425.2	5283	4317	852	114	0	4094	5403	4351	930	122	0	4107	98.34	4269
GCF_001701835.2	5432	4369	904	159	0	4114	5526	4408	956	162	0	4128	99.56	4322
GCF_001701845.2	5257	4367	806	84	0	4107	5339	4405	850	84	0	4129	99.49	4319
GCF_001702045.2	5555	4358	1094	103	0	4099	5711	4396	1203	112	0	4119	99.33	4312
GCF_001704235.1	5080	4170	477	433	0	3997	5247	4239	571	437	0	4018	95.07	4127
GCF_001705385.1	5350	4384	918	48	0	4117	5521	4433	1040	48	0	4147	99.88	4336
GCF_001708225.1	5128	4351	538	239	0	4106	5161	4377	544	240	0	4122	99.15	4304
GCF_001708245.1	4885	4349	322	214	0	4103	4916	4371	330	215	0	4117	99.12	4303
GCF_001709275.1	5279	4322	772	185	0	4099	5363	4352	823	188	0	4115	98.5	4276
GCF_001709295.1	5038	4314	554	170	0	4095	5071	4332	566	173	0	4108	98.34	4269
GCF_001721725.1	4886	4322	385	179	0	4107	4948	4335	422	191	0	4120	98.57	4279
GCF_001741545.1	5328	4319	695	314	0	4102	5475	4344	803	328	0	4121	98.46	4274
GCF_001741665.1	5422	4312	764	346	0	4096	5582	4342	881	359	0	4115	98.3	4267
GCF_001746535.1	4922	4340	531	51	0	4108	4945	4352	540	53	0	4119	98.99	4297
GCF_001750805.1	5245	4327	727	191	0	4101	5323	4363	761	199	0	4119	98.64	4282
GCF_001855315.1	5199	4341	772	86	0	4105	5297	4376	827	94	0	4121	98.92	4294
GCF_001870165.1	5173	4351	508	314	0	4107	5233	4388	529	316	0	4127	99.12	4303
GCF_001885255.2	5484	4350	1007	127	0	4114	5559	4391	1035	133	0	4130	99.1	4302
GCF_001887995.2	5056	4317	487	252	0	4106	5108	4339	515	254	0	4120	98.41	4272

GCF_001902195.1	5310	4284	955	71	0	4038	5440	4327	1041	72	0	4061	97.58	4236
GCF_001902215.1	5307	4284	954	69	0	4038	5434	4326	1039	69	0	4061	97.58	4236
GCF_001902235.1	5335	4314	956	65	0	4064	5465	4357	1043	65	0	4087	98.27	4266
GCF_001902255.1	5177	4367	741	69	0	4106	5257	4403	785	69	0	4122	99.49	4319
GCF_001902335.1	5388	4256	939	193	0	4064	5542	4306	1037	199	0	4080	96.96	4209
GCF_001902355.1	5384	4356	802	226	0	4109	5488	4398	863	227	0	4127	99.24	4308
GCF_001902395.1	5184	4310	635	239	0	4095	5274	4347	678	249	0	4116	98.23	4264
GCF_001902415.1	5151	4366	707	78	0	4111	5244	4410	756	78	0	4127	99.47	4318
GCF_001902435.1	5281	4318	568	395	0	4098	5337	4351	588	398	0	4115	98.39	4271
GCF_001902475.1	5262	4358	769	135	0	4111	5380	4400	845	135	0	4128	99.29	4310
GCF_001902515.1	5286	4317	572	397	0	4097	5342	4349	592	401	0	4114	98.36	4270
GCF_001902535.1	5055	4166	675	214	0	3962	5262	4227	776	259	0	3980	94.86	4118
GCF_001908515.1	5303	4297	543	463	0	4101	5384	4336	575	473	0	4124	97.93	4251
GCF_001908595.1	5477	4352	1003	122	0	4115	5550	4391	1032	127	0	4131	99.15	4304
GCF_001908625.1	5473	4352	1001	120	0	4115	5541	4392	1028	121	0	4131	99.15	4304
GCF_001908655.1	5476	4353	1005	118	0	4116	5551	4391	1036	124	0	4132	99.17	4305
GCF_001908675.1	5480	4352	1001	127	0	4115	5553	4391	1031	131	0	4131	99.15	4304
GCF_001908695.1	5471	4353	999	119	0	4116	5543	4391	1028	124	0	4132	99.17	4305
GCF_001908715.1	5002	4142	670	190	0	3942	5105	4177	734	194	0	3959	94.31	4094
GCF_001908875.1	5475	4353	1001	121	0	4116	5551	4392	1034	125	0	4132	99.17	4305
GCF_001908895.1	5093	4366	686	41	0	4111	5181	4408	732	41	0	4127	99.47	4318
GCF_001913175.1	5240	4319	584	337	0	4099	5296	4350	602	344	0	4115	98.41	4272
GCF_001922465.1	5377	4369	850	158	0	4106	5510	4413	936	161	0	4130	99.54	4321
GCF_001936035.1	4947	4338	440	169	0	4107	4971	4354	446	171	0	4123	98.96	4296
GCF_001939885.2	5178	4362	543	273	0	4110	5229	4385	568	276	0	4128	99.4	4315
GCF_001952835.1	4790	4322	294	174	0	4109	4837	4354	309	174	0	4125	98.57	4279
GCF_001952875.1	4973	4313	575	85	0	4092	5038	4354	599	85	0	4109	98.27	4266
GCF_001952895.1	5403	4362	830	211	0	4105	5590	4413	965	212	0	4125	99.38	4314
GCF_001952915.1	5497	4347	994	156	0	4083	5726	4384	1164	178	0	4101	99.1	4302
GCF_001956965.1	5434	4352	958	124	0	4115	5497	4390	981	126	0	4131	99.15	4304

GCF_002009075.1	5629	4211	785	633	0	3962	5756	4243	862	651	0	3977	95.9	4163
GCF_002055765.1	5292	4259	675	358	0	4082	5396	4298	717	381	0	4105	97.05	4213
GCF_002055855.1	5379	4331	894	154	0	4108	5468	4361	948	159	0	4128	98.71	4285
GCF_002056385.1	5219	4360	835	24	0	4098	5350	4403	923	24	0	4121	99.33	4312
GCF_002056475.1	5263	4377	832	54	0	4113	5394	4424	916	54	0	4135	99.72	4329
GCF_002113865.1	5599	4376	1021	202	0	4114	5777	4424	1151	202	0	4137	99.7	4328
GCF_002116885.1	4837	4341	294	202	0	4101	4878	4364	309	205	0	4114	99.06	4300
GCF_002156725.1	5395	4379	959	57	0	4113	5552	4430	1064	58	0	4144	99.77	4331
GCF_002156745.1	5500	4351	774	375	0	4103	5714	4403	910	401	0	4127	99.12	4303
GCF_002156785.1	5502	4269	870	363	0	4056	5620	4308	945	367	0	4079	97.28	4223
GCF_002163895.1	5422	4358	691	373	0	4110	5495	4389	732	374	0	4133	99.29	4310
GCF_002164855.2	5168	4330	776	62	0	4069	5291	4374	855	62	0	4083	98.64	4282
GCF_002180075.1	5281	4380	866	35	0	4112	5476	4428	1013	35	0	4139	99.79	4332
GCF_002180155.1	5374	4378	860	136	0	4113	5550	4423	989	138	0	4135	99.75	4330
GCF_002180175.1	5296	4374	796	126	0	4112	5395	4411	856	128	0	4133	99.65	4326
GCF_002180255.1	5279	4297	603	379	0	4063	5435	4378	672	385	0	4089	97.95	4252
GCF_002180295.1	5395	4372	935	88	0	4106	5526	4409	1025	92	0	4126	99.61	4324
GCF_002180315.1	5457	4331	925	201	0	4107	5576	4363	995	218	0	4126	98.71	4285
GCF_002192315.1	5178	4352	502	324	0	4107	5238	4389	523	326	0	4126	99.15	4304
GCF_002192335.1	5366	4378	857	131	0	4112	5537	4419	986	132	0	4132	99.75	4330
GCF_002192375.1	5242	4339	749	154	0	4105	5320	4375	780	165	0	4123	98.85	4291
GCF_002197225.1	5546	4380	1081	85	0	4114	5673	4420	1166	87	0	4135	99.79	4332
GCF_002197505.1	5269	4374	744	151	0	4111	5412	4417	835	160	0	4133	99.65	4326
GCF_002202195.1	5557	4346	821	390	0	4096	5743	4400	913	430	0	4113	99.01	4298
GCF_002202215.1	5192	4351	750	91	0	4114	5238	4379	764	95	0	4130	99.12	4303
GCF_002202235.1	5309	4351	844	114	0	4115	5383	4382	881	120	0	4131	99.12	4303
GCF_002202255.1	5372	4376	838	158	0	4114	5484	4418	906	160	0	4138	99.7	4328
GCF_002202275.1	5263	4239	601	423	0	4081	5394	4266	690	438	0	4101	96.66	4196
GCF_002209405.1	4865	4325	361	179	0	4105	4905	4347	373	185	0	4123	98.59	4280
GCF_002211905.1	5343	4328	816	199	0	4108	5422	4363	858	201	0	4128	98.64	4282

GCF_002243445.1	5215	4374	816	25	0	4113	5306	4412	869	25	0	4135	99.65	4326
GCF_002248115.2	5438	4315	784	339	0	4109	5510	4345	809	356	0	4126	98.39	4271
GCF_002249975.2	5356	4373	944	39	0	4113	5503	4416	1048	39	0	4135	99.63	4325
GCF_002251875.2	5250	4318	623	309	0	4104	5305	4349	643	313	0	4119	98.39	4271
GCF_002257765.2	5179	4355	755	69	0	4104	5299	4396	834	69	0	4118	99.22	4307
GCF_002269295.1	4986	4374	591	21	0	4115	5082	4410	651	21	0	4136	99.65	4326
GCF_002278055.1	5036	4338	621	77	0	4096	5129	4364	688	77	0	4111	98.85	4291
GCF_002300675.1	5199	4298	457	444	0	4100	5298	4321	486	491	0	4116	97.9	4250
GCF_002587165.1	5401	4367	947	87	0	4105	5572	4413	1068	91	0	4123	99.49	4319
GCF_002587885.1	5341	4356	816	169	0	4103	5471	4404	895	172	0	4122	99.24	4308
GCF_002591075.1	5257	4348	697	212	0	4112	5369	4401	753	215	0	4130	99.06	4300
GCF_002740955.1	5669	4303	633	733	0	4084	5787	4342	688	757	0	4110	98.04	4256
GCF_002741685.1	5277	4360	823	94	0	4110	5446	4416	935	95	0	4131	99.33	4312
GCF_002752775.1	5200	4293	520	387	0	4093	5306	4344	570	392	0	4119	97.86	4248
GCF_002752815.1	5196	4294	518	384	0	4094	5303	4346	568	389	0	4120	97.88	4249
GCF_002752905.1	4978	4316	402	260	0	4110	5007	4333	412	262	0	4127	98.53	4277
GCF_002752955.1	5249	4362	645	242	0	4114	5284	4385	657	242	0	4128	99.42	4316
GCF_002752975.1	5259	4359	815	85	0	4109	5411	4414	911	86	0	4130	99.31	4311
GCF_002752995.1	5051	4358	506	187	0	4111	5134	4386	555	193	0	4126	99.33	4312
GCF_002753015.1	5406	4318	645	443	0	4110	5586	4365	771	450	0	4141	98.53	4277
GCF_002753035.1	5180	4317	570	293	0	4109	5233	4351	587	295	0	4134	98.5	4276
GCF_002753055.1	5281	4362	822	97	0	4112	5447	4418	931	98	0	4133	99.38	4314
GCF_002753075.1	5284	4362	825	97	0	4112	5452	4418	936	98	0	4133	99.38	4314
GCF_002753165.1	5233	4363	784	86	0	4113	5381	4416	878	87	0	4133	99.4	4315
GCF_002753355.1	5051	4358	507	186	0	4111	5134	4386	556	192	0	4126	99.33	4312
GCF_002753375.1	4908	4355	368	185	0	4109	4936	4375	375	186	0	4122	99.29	4310
GCF_002753405.1	5260	4363	815	82	0	4113	5411	4417	911	83	0	4134	99.4	4315
GCF_002753555.1	5285	4363	827	95	0	4113	5447	4419	932	96	0	4134	99.4	4315
GCF_002753605.1	5257	4360	814	83	0	4110	5410	4416	910	84	0	4131	99.33	4312
GCF_002754835.1	5195	4318	586	291	0	4110	5253	4352	608	293	0	4135	98.53	4277

GCF_002761315.1	5145	4288	503	354	0	4059	5198	4315	528	355	0	4076	97.7	4241
GCF_002761515.1	4850	4339	308	203	0	4103	4891	4364	316	211	0	4120	98.92	4294
GCF_002786755.1	5253	4342	726	185	0	4110	5346	4379	768	199	0	4126	98.92	4294
GCF_002787755.1	5234	4342	727	165	0	4109	5317	4381	761	175	0	4128	98.94	4295
GCF_002811305.2	5348	4364	897	87	0	4106	5473	4409	977	87	0	4120	99.45	4317
GCF_002811335.3	5350	4342	732	276	0	4113	5411	4378	751	282	0	4133	98.92	4294
GCF_002812365.1	5242	4327	841	74	0	4083	5334	4359	900	75	0	4104	98.57	4279
GCF_002812385.1	5268	4373	854	41	0	4114	5419	4410	968	41	0	4133	99.63	4325
GCF_002812665.1	5532	4351	1000	181	0	4105	5778	4385	1189	204	0	4125	99.12	4303
GCF_002813595.1	5187	4356	585	246	0	4112	5246	4387	613	246	0	4129	99.26	4309
GCF_002814015.1	4921	4346	426	149	0	4103	4965	4380	434	151	0	4119	99.03	4299
GCF_002833425.1	5301	4339	720	242	0	4104	5398	4385	763	250	0	4124	98.87	4292
GCF_002833445.1	5303	4344	724	235	0	4109	5398	4390	769	239	0	4130	98.99	4297
GCF_002833465.1	5298	4339	723	236	0	4109	5405	4387	774	244	0	4130	98.87	4292
GCF_002848545.1	5403	4368	894	141	0	4112	5549	4420	988	141	0	4135	99.52	4320
GCF_002848565.1	5484	4366	861	257	0	4099	5555	4388	905	262	0	4110	99.47	4318
GCF_002848585.1	5492	4342	1018	132	0	4086	5634	4385	1113	136	0	4104	98.92	4294
GCF_002848605.1	5370	4173	705	492	0	3960	5428	4207	729	492	0	3981	95.02	4125
GCF_002850275.3	4892	4341	355	196	0	4107	4915	4359	358	198	0	4124	98.96	4296
GCF_002852365.2	5351	4346	912	93	0	4103	5516	4397	1026	93	0	4121	99.01	4298
GCF_002852995.3	5066	4317	544	205	0	4107	5114	4342	567	205	0	4126	98.43	4273
GCF_002853475.2	5138	4318	580	240	0	4107	5230	4353	634	243	0	4127	98.43	4273
GCF_002893825.1	5100	4336	723	41	0	4082	5211	4380	790	41	0	4097	98.78	4288
GCF_002903005.1	5663	4297	892	474	0	4079	6024	4368	1129	527	0	4111	97.97	4253
GCF_002903025.1	5805	4242	740	823	0	4068	6150	4327	963	860	0	4109	96.71	4198
GCF_002909775.1	5290	4306	548	436	0	4108	5368	4331	589	448	0	4126	98.09	4258
GCF_002918585.2	5179	4299	656	224	0	4053	5302	4333	742	227	0	4068	97.93	4251
GCF_002935085.1	5723	4286	948	489	0	4062	6053	4343	1178	532	0	4090	97.72	4242
GCF_002944845.1	5366	4351	785	230	0	4110	5452	4398	824	230	0	4126	99.22	4307
GCF_002948565.1	5223	4331	739	153	0	4108	5295	4357	780	158	0	4127	98.71	4285

GCF_002951555.1	4984	4333	528	123	0	4091	5100	4379	596	125	0	4118	98.71	4285
GCF_002951595.1	5236	4343	748	145	0	4102	5391	4382	844	165	0	4121	98.94	4295
GCF_002951635.1	5027	4315	483	229	0	4109	5086	4337	519	230	0	4127	98.43	4273
GCF_002966875.1	5218	4103	482	633	0	3926	5416	4168	595	653	0	3948	93.62	4064
GCF_002967795.2	5538	4372	950	216	0	4110	5651	4395	1031	225	0	4125	99.63	4325
GCF_002968475.1	5449	4372	966	111	0	4111	5566	4419	1035	112	0	4132	99.61	4324
GCF_002968495.1	5105	4373	694	38	0	4112	5224	4413	773	38	0	4131	99.63	4325
GCF_002970375.3	5388	4354	848	186	0	4109	5472	4381	904	187	0	4120	99.22	4307
GCF_002970895.1	4955	4347	373	235	0	4107	4986	4371	379	236	0	4121	99.1	4302
GCF_003006175.1	5281	4320	737	224	0	4087	5368	4355	781	232	0	4105	98.41	4272
GCF_003010735.1	5194	4165	552	477	0	3946	5409	4219	695	495	0	3972	94.84	4117
GCF_003030045.1	5270	4378	869	23	0	4113	5397	4418	956	23	0	4136	99.75	4330
GCF_003030145.1	5050	4328	551	171	0	4111	5130	4369	590	171	0	4131	98.66	4283
GCF_003031325.1	5483	4321	738	424	0	4099	5585	4373	787	425	0	4124	98.48	4275
GCF_003031345.1	5242	4320	674	248	0	4094	5292	4343	701	248	0	4108	98.43	4273
GCF_003031505.1	5087	4382	676	29	0	4117	5175	4421	725	29	0	4133	99.84	4334
GCF_003037005.2	5387	4365	908	114	0	4110	5546	4426	1006	114	0	4136	99.45	4317
GCF_003037615.2	5124	4349	560	215	0	4104	5211	4378	614	219	0	4123	99.19	4306
GCF_003054385.1	5098	4337	589	172	0	4111	5162	4377	612	173	0	4131	98.8	4289
GCF_003069525.1	5259	4329	772	158	0	4105	5344	4360	823	161	0	4122	98.66	4283
GCF_003071305.1	5097	4183	471	443	0	4013	5257	4254	556	447	0	4034	95.39	4141
GCF_003073235.1	5198	4320	580	298	0	4105	5269	4350	612	307	0	4123	98.5	4276
GCF_003073315.1	4969	4185	383	401	0	4014	5131	4267	446	418	0	4043	95.46	4144
GCF_003073335.1	5668	4337	1089	242	0	4086	5934	4374	1266	294	0	4108	98.83	4290
GCF_003073675.1	5335	4383	933	19	0	4116	5517	4426	1072	19	0	4139	99.86	4335
GCF_003074015.1	5189	4334	699	156	0	4113	5263	4370	737	156	0	4135	98.78	4288
GCF_003076555.1	4886	4366	354	166	0	4112	4932	4400	366	166	0	4128	99.54	4321
GCF_003181055.1	5151	4355	709	87	0	4117	5220	4385	748	87	0	4135	99.22	4307
GCF_003181095.1	5077	4327	558	192	0	4109	5128	4351	578	199	0	4128	98.66	4283
GCF_003181135.1	5073	4329	561	183	0	4111	5125	4353	582	190	0	4130	98.71	4285

GCF_003186535.1	4894	4339	384	171	0	4106	4981	4392	414	175	0	4140	98.92	4294
GCF_003194285.1	4965	4347	549	69	0	4109	5005	4374	560	71	0	4122	99.06	4300
GCF_003203435.1	5650	4362	1126	162	0	4111	5789	4410	1217	162	0	4129	99.38	4314
GCF_003204175.1	5154	4325	548	281	0	4106	5293	4391	611	291	0	4146	98.55	4278
GCF_003204465.1	5099	4187	474	438	0	4014	5265	4254	569	442	0	4035	95.46	4144
GCF_003261955.2	5186	4353	760	73	0	4103	5332	4402	856	74	0	4117	99.17	4305
GCF_003267985.1	5339	4299	807	233	0	4082	5417	4325	855	237	0	4098	97.97	4253
GCF_003285145.1	4991	4295	382	314	0	4078	5076	4314	444	318	0	4094	97.88	4249
GCF_003286975.1	4748	4297	334	117	0	4106	4766	4311	336	119	0	4119	98	4254
GCF_003286995.1	5256	4352	626	278	0	4109	5300	4386	636	278	0	4125	99.17	4305
GCF_003288375.1	5253	4383	857	13	0	4115	5393	4416	964	13	0	4132	99.86	4335
GCF_003330945.1	5049	4273	506	270	0	4050	5093	4307	516	270	0	4067	97.51	4233
GCF_003363735.1	5834	4206	957	671	0	4002	5953	4244	995	714	0	4023	95.83	4160
GCF_003367555.1	5246	4344	769	133	0	4101	5360	4383	844	133	0	4119	98.96	4296
GCF_003408615.1	5752	4273	806	673	0	4045	5849	4309	854	686	0	4067	97.4	4228
GCF_003428845.1	5347	4332	863	152	0	4107	5422	4359	906	157	0	4125	98.73	4286
GCF_003429065.3	5402	4335	743	324	0	4107	5546	4388	831	327	0	4135	98.85	4291
GCF_003429545.1	5398	4333	955	110	0	4082	5545	4372	1062	111	0	4097	98.71	4285
GCF_003432145.1	5058	4357	458	243	0	4113	5095	4386	465	244	0	4131	99.31	4311
GCF_003432165.1	5742	4298	973	471	0	4098	5800	4331	996	473	0	4115	97.93	4251
GCF_003432185.1	5117	4309	503	305	0	4107	5214	4370	531	313	0	4143	98.2	4263
GCF_003432205.1	4952	4343	425	184	0	4111	5017	4389	441	187	0	4130	98.99	4297
GCF_003432225.1	5022	4345	493	184	0	4106	5071	4372	515	184	0	4122	99.1	4302
GCF_003432245.1	4977	4366	419	192	0	4111	5021	4384	441	196	0	4124	99.54	4321
GCF_003432265.1	4945	4318	385	242	0	4111	5021	4353	423	245	0	4131	98.48	4275
GCF_003432285.1	4978	4363	378	237	0	4113	5020	4390	389	241	0	4132	99.42	4316
GCF_003432405.1	5222	4280	465	477	0	4077	5267	4304	484	479	0	4096	97.56	4235
GCF_003443755.1	5512	4328	702	482	0	4104	5653	4391	775	487	0	4130	98.59	4280
GCF_003571525.1	5198	4280	567	351	0	4078	5284	4342	587	355	0	4098	97.63	4238
GCF_003571545.1	5102	4298	508	296	0	4078	5175	4335	529	311	0	4099	97.93	4251

GCF_003571585.1	5062	4366	504	192	0	4108	5128	4406	522	200	0	4130	99.47	4318
GCF_003571605.1	5484	4328	838	318	0	4110	5638	4358	946	334	0	4129	98.66	4283
GCF_003571645.1	5274	4334	545	395	0	4093	5396	4383	615	398	0	4108	98.73	4286
GCF_003571705.1	5443	4346	845	252	0	4095	5617	4403	962	252	0	4118	99.01	4298
GCF_003571745.1	5313	4350	830	133	0	4112	5375	4384	857	134	0	4125	99.1	4302
GCF_003574235.1	5280	4171	761	348	0	3977	5350	4195	803	352	0	3991	95.02	4125
GCF_003574255.1	5214	4328	725	161	0	4106	5274	4348	761	165	0	4120	98.64	4282
GCF_003574275.1	5207	4328	725	154	0	4106	5267	4348	761	158	0	4120	98.64	4282
GCF_003584585.1	5410	4363	950	97	0	4113	5565	4412	1056	97	0	4127	99.4	4315
GCF_003590665.1	5065	4304	402	359	0	4079	5174	4331	467	376	0	4095	98.06	4257
GCF_003597695.1	5109	4353	547	209	0	4098	5178	4392	575	211	0	4117	99.19	4306
GCF_003597715.1	5093	4367	540	186	0	4111	5157	4406	562	189	0	4130	99.52	4320
GCF_003597735.1	5102	4364	551	187	0	4108	5172	4403	580	189	0	4127	99.45	4317
GCF_003597755.1	5151	4337	551	263	0	4086	5244	4379	586	279	0	4105	98.83	4290
GCF_003660185.1	5034	4353	401	280	0	4111	5285	4380	465	440	0	4128	99.29	4310
GCF_003660205.1	5114	3914	439	761	0	3754	5320	4012	473	835	0	3766	89.24	3874
GCF_003692695.1	5022	4245	449	328	0	4066	5074	4281	462	331	0	4081	96.73	4199
GCF_003711065.1	5326	4337	897	92	0	4077	5489	4384	1013	92	0	4092	98.8	4289
GCF_003790485.1	5362	4317	755	290	0	4096	5496	4358	819	319	0	4115	98.34	4269
GCF_003812085.1	5217	4323	572	322	0	4100	5303	4376	592	335	0	4121	98.53	4277
GCF_003812105.1	5271	4347	641	283	0	4097	5353	4386	684	283	0	4117	99.12	4303
GCF_003850165.1	5107	4297	549	261	0	4099	5160	4328	567	265	0	4117	97.88	4249
GCF_003855315.1	5396	4322	813	261	0	4110	5492	4374	856	262	0	4135	98.5	4276
GCF_003855335.1	5318	4324	766	228	0	4110	5395	4364	801	230	0	4128	98.55	4278
GCF_003855515.1	5460	4354	809	297	0	4110	5525	4389	838	298	0	4127	99.19	4306
GCF_003855535.1	4858	4331	391	136	0	4108	4904	4358	410	136	0	4126	98.73	4286
GCF_003855555.1	4858	4331	391	136	0	4108	4904	4358	410	136	0	4126	98.73	4286
GCF_003856475.1	5428	4351	1017	60	0	4113	5580	4408	1112	60	0	4135	99.15	4304
GCF_003856595.1	5149	4355	708	86	0	4117	5219	4385	748	86	0	4135	99.22	4307
GCF_003860645.1	5638	4112	802	724	0	3943	5715	4143	843	729	0	3957	93.67	4066

GCF_003931835.1	4951	4356	493	102	0	4094	5029	4378	549	102	0	4109	99.29	4310
GCF_003932915.1	5144	4298	525	321	0	4084	5206	4337	548	321	0	4104	97.97	4253
GCF_003934185.1	5309	4366	693	250	0	4111	5373	4409	714	250	0	4130	99.49	4319
GCF_003940845.1	5563	4352	1036	175	0	4098	5837	4451	1210	176	0	4158	99.15	4304
GCF_003953905.1	4925	4202	498	225	0	3984	4990	4258	506	226	0	3999	95.72	4155
GCF_004006035.1	4937	4354	494	89	0	4110	5012	4384	538	90	0	4122	99.22	4307
GCF_004010995.1	5070	4327	518	225	0	4106	5116	4359	532	225	0	4127	98.57	4279
GCF_004014965.1	4876	4325	339	212	0	4113	4909	4352	343	214	0	4137	98.62	4281
GCF_004118955.1	5306	4353	659	294	0	4108	5375	4392	689	294	0	4125	99.19	4306
GCF_004119955.1	5452	4351	943	158	0	4105	5601	4398	1045	158	0	4127	99.12	4303
GCF_004119975.1	5360	4354	849	157	0	4113	5516	4406	951	159	0	4134	99.19	4306
GCF_004119995.1	5320	4336	832	152	0	4093	5434	4376	906	152	0	4111	98.8	4289
GCF_004120015.1	5079	4361	489	229	0	4112	5227	4438	555	234	0	4153	99.38	4314
GCF_004120035.1	4896	4305	309	282	0	4097	4949	4328	336	285	0	4112	98.18	4262
GCF_004120055.1	5054	4349	477	228	0	4107	5085	4373	483	229	0	4123	99.15	4304
GCF_004120075.1	5422	4270	819	333	0	4035	5534	4308	893	333	0	4053	97.26	4222
GCF_004120095.1	5455	4353	923	179	0	4110	5579	4393	1007	179	0	4129	99.17	4305
GCF_004120115.1	5202	4369	718	115	0	4115	5316	4443	756	117	0	4165	99.56	4322
GCF_004120135.1	4849	4358	338	153	0	4103	4880	4384	343	153	0	4118	99.35	4313
GCF_004120155.1	5049	4327	546	176	0	4104	5096	4369	549	178	0	4120	98.59	4280
GCF_004120175.1	4757	4333	279	145	0	4110	4782	4350	284	148	0	4123	98.83	4290
GCF_004135795.1	5464	4218	808	438	0	4008	5535	4242	852	441	0	4023	96.11	4172
GCF_004137665.1	4791	4341	268	182	0	4112	4820	4370	268	182	0	4140	99.01	4298
GCF_004138665.1	5097	4366	564	167	0	4115	5180	4409	602	169	0	4136	99.47	4318
GCF_004141975.1	5212	4376	708	128	0	4115	5317	4416	772	129	0	4139	99.7	4328
GCF_004208475.1	5007	4350	442	215	0	4111	5049	4378	452	219	0	4129	99.15	4304
GCF_004209795.1	5907	4169	957	781	0	3949	6017	4200	1027	790	0	3965	94.98	4123
GCF_004295385.1	5184	4292	630	262	0	4071	5257	4325	657	275	0	4092	97.81	4246
GCF_004295405.1	5811	4326	969	516	0	4095	5929	4359	1043	527	0	4112	98.55	4278
GCF_004295605.1	4751	4337	285	129	0	4114	4800	4358	303	139	0	4131	98.87	4292

GCF_004319525.1	5408	4288	798	322	0	4069	5494	4320	844	330	0	4091	97.72	4242
GCF_004322795.1	5187	4354	761	72	0	4104	5340	4404	863	73	0	4118	99.19	4306
GCF_004322955.1	5160	4349	594	217	0	4107	5229	4398	612	219	0	4135	99.08	4301
GCF_004322995.1	5009	4342	344	323	0	4107	5048	4372	353	323	0	4126	99.06	4300
GCF_004332075.1	5130	4337	604	189	0	4093	5201	4385	627	189	0	4109	98.92	4294
GCF_004801235.1	5213	4209	500	504	0	4002	5302	4274	520	508	0	4022	95.99	4167
GCF_004924315.1	5226	4344	627	255	0	4101	5274	4380	638	256	0	4121	98.96	4296
GCF_005347525.1	4979	4260	495	224	0	4025	5037	4287	526	224	0	4036	97.07	4214
GCF_005377825.1	5105	4338	538	229	0	4104	5166	4373	564	229	0	4122	98.85	4291
GCF_005853785.1	5397	4315	940	142	0	4066	5543	4366	1035	142	0	4084	98.3	4267
GCF_005854025.1	5411	4325	940	146	0	4075	5563	4377	1040	146	0	4094	98.53	4277
GCF_005854245.1	5412	4314	937	161	0	4066	5559	4365	1032	162	0	4084	98.27	4266
GCF_005885775.1	5454	4260	732	462	0	4046	5554	4291	791	472	0	4064	97.07	4214
GCF_005944305.1	5703	4307	986	410	0	4075	5828	4344	1048	436	0	4095	98.13	4260
GCF_006304565.1	5426	4327	988	111	0	4087	5590	4389	1087	114	0	4112	98.57	4279
GCF_006364295.1	5101	4214	451	436	0	4006	5172	4241	478	453	0	4021	96.04	4169
GCF_006459145.1	5526	4319	848	359	0	4099	5637	4361	901	375	0	4119	98.39	4271
GCF_006494895.1	5468	4357	1064	47	0	4116	5616	4414	1155	47	0	4140	99.29	4310
GCF_006494915.1	5437	4346	928	163	0	4097	5584	4394	1027	163	0	4113	99.01	4298
GCF_006965405.1	5075	4335	455	285	0	4099	5110	4352	467	291	0	4112	98.87	4292
GCF_006974165.1	4815	4318	315	182	0	4110	4865	4356	325	184	0	4131	98.41	4272
GCF_007197815.1	5007	4357	500	150	0	4109	5048	4388	506	154	0	4129	99.33	4312
GCF_007833555.1	5033	4353	441	239	0	4111	5105	4389	470	246	0	4138	99.26	4309
GCF_007833575.1	5040	4336	542	162	0	4115	5079	4354	559	166	0	4133	98.87	4292
GCF_007873865.1	5301	4325	751	225	0	4106	5450	4357	862	231	0	4123	98.59	4280
GCF_008065415.1	5325	4320	699	306	0	4103	5402	4347	740	315	0	4121	98.5	4276
GCF_008121515.1	5425	4366	987	72	0	4104	5573	4411	1090	72	0	4128	99.47	4318
GCF_008122285.1	4997	4279	400	318	0	4037	5035	4308	408	319	0	4051	97.51	4233
GCF_008369685.1	4710	4146	208	356	0	3953	4777	4181	239	357	0	3968	94.45	4100
GCF_008632415.1	5532	4300	717	515	0	4091	5666	4346	791	529	0	4111	97.97	4253

GCF_008693405.1	5172	4337	644	191	0	4105	5249	4373	685	191	0	4121	98.83	4290
GCF_008693425.1	5012	4308	474	230	0	4114	5041	4328	483	230	0	4128	98.25	4265
GCF_008693445.1	5255	4298	662	295	0	4101	5319	4330	689	300	0	4119	97.9	4250
GCF_008728415.1	5155	4335	766	54	0	4098	5281	4382	845	54	0	4113	98.76	4287
GCF_008728695.1	5461	4347	1055	59	0	4107	5631	4405	1167	59	0	4131	99.06	4300
GCF_008931345.1	5190	4311	489	390	0	4090	5315	4369	549	397	0	4110	98.25	4265
GCF_008931565.1	5094	4316	561	217	0	4108	5130	4342	570	218	0	4130	98.39	4271
GCF_009025895.1	5164	4327	612	225	0	4109	5226	4352	644	230	0	4124	98.66	4283
GCF_009387775.1	5210	4326	560	324	0	4109	5318	4379	613	326	0	4132	98.57	4279
GCF_009387815.1	5198	4349	616	233	0	4109	5252	4377	638	237	0	4127	99.17	4305
GCF_009387915.1	4891	4294	355	242	0	4083	4983	4358	380	245	0	4098	97.83	4247
GCF_009387945.1	4775	4299	226	250	0	4079	4808	4329	227	252	0	4095	98.02	4255
GCF_009497695.1	4972	4326	433	213	0	4087	5020	4356	450	214	0	4103	98.57	4279
GCF_009497735.1	5205	4343	624	238	0	4116	5297	4384	666	247	0	4141	99.01	4298
GCF_009497755.1	5257	4350	628	279	0	4113	5314	4381	653	280	0	4129	99.1	4302
GCF_009556655.1	5016	4329	414	273	0	4093	5074	4360	441	273	0	4115	98.73	4286
GCF_009601745.1	5078	4303	353	422	0	4093	5149	4317	397	435	0	4107	98.18	4262
GCF_009648995.1	4764	4345	342	77	0	4110	4793	4370	345	78	0	4128	99.06	4300
GCF_009684575.1	5390	4357	998	35	0	4116	5526	4410	1081	35	0	4140	99.26	4309
GCF_009720445.1	5342	4322	676	344	0	4105	5422	4346	725	351	0	4122	98.55	4278
GCF_009731405.1	4961	4344	524	93	0	4113	5006	4373	540	93	0	4130	98.99	4297
GCF_009734105.1	5346	4333	784	229	0	4107	5461	4369	857	235	0	4127	98.76	4287
GCF_009755705.1	5461	4355	597	509	0	4101	5663	4411	712	540	0	4132	99.24	4308
GCF_009791475.1	5378	4332	802	244	0	4107	5529	4370	902	257	0	4127	98.73	4286
GCF_009791495.1	5398	4331	767	300	0	4106	5496	4364	818	314	0	4127	98.71	4285
GCF_009833945.1	5233	4363	785	85	0	4112	5362	4403	871	88	0	4130	99.4	4315
GCF_009834285.1	5466	4354	1004	108	0	4115	5599	4396	1095	108	0	4132	99.19	4306
GCF_009856585.1	5545	4356	1077	112	0	4115	5700	4412	1176	112	0	4139	99.24	4308
GCF_009867115.1	5266	4381	856	29	0	4115	5447	4427	987	33	0	4135	99.82	4333
GCF_009884395.1	5170	4337	536	297	0	4108	5217	4364	556	297	0	4124	98.87	4292

GCF_009884415.1	5325	4328	768	229	0	4106	5516	4370	909	237	0	4126	98.64	4282
GCF_009906875.1	4996	4339	603	54	0	4110	5092	4366	672	54	0	4125	98.87	4292
GCF_009906895.1	4973	4339	576	58	0	4109	5065	4364	643	58	0	4121	98.85	4291
GCF_009909305.1	5051	4354	505	192	0	4110	5109	4385	531	193	0	4127	99.22	4307
GCF_009909325.1	5046	4351	505	190	0	4110	5104	4382	531	191	0	4127	99.15	4304
GCF_009914235.1	5303	4352	889	62	0	4112	5432	4402	967	63	0	4134	99.15	4304
GCF_009914255.1	5013	4380	525	108	0	4114	5076	4409	559	108	0	4129	99.84	4334
GCF_010183645.1	5435	4364	974	97	0	4102	5611	4419	1095	97	0	4122	99.42	4316
GCF_010183685.1	5367	4340	879	148	0	4098	5538	4406	983	149	0	4120	98.87	4292
GCF_010367305.1	5123	4365	617	141	0	4104	5212	4413	656	143	0	4128	99.45	4317
GCF_010450855.1	5080	4353	648	79	0	4113	5227	4389	753	85	0	4131	99.22	4307
GCF_010586985.1	5318	4328	574	416	0	4084	5496	4398	668	430	0	4107	98.62	4281
GCF_011006575.1	5295	4341	694	260	0	4106	5393	4377	755	261	0	4129	98.94	4295
GCF_011022255.1	5065	4357	658	50	0	4117	5186	4388	748	50	0	4135	99.29	4310
GCF_011045595.1	5306	4318	590	398	0	4109	5510	4367	706	437	0	4125	98.43	4273
GCF_011045775.1	5322	4357	651	314	0	4109	5482	4411	746	325	0	4132	99.26	4309
GCF_011065365.1	5022	4333	472	217	0	4107	5044	4351	476	217	0	4120	98.8	4289
GCF_011066505.1	5301	4363	851	87	0	4107	5433	4410	936	87	0	4126	99.4	4315
GCF_011068365.1	5089	4347	439	303	0	4114	5166	4414	449	303	0	4174	99.12	4303
GCF_011106605.1	5411	4337	963	111	0	4085	5496	4369	1016	111	0	4104	98.8	4289
GCF_011106775.1	5412	4337	963	112	0	4085	5495	4368	1015	112	0	4104	98.8	4289
GCF_011106795.1	5188	4336	775	77	0	4085	5249	4352	819	78	0	4097	98.8	4289
GCF_011129215.1	5463	4337	997	129	0	4085	5542	4366	1046	130	0	4104	98.8	4289
GCF_011682835.2	5014	4303	514	197	0	4103	5044	4326	521	197	0	4121	98.11	4259
GCF_011742415.2	5319	4324	787	208	0	4100	5394	4347	815	232	0	4116	98.55	4278
GCF_011742585.2	5422	4333	906	183	0	4108	5528	4368	972	188	0	4129	98.76	4287
GCF_011752495.1	5457	4381	955	121	0	4113	5597	4416	1060	121	0	4135	99.84	4334
GCF_011764365.2	5538	4344	795	399	0	4110	5628	4389	827	412	0	4137	98.99	4297
GCF_011769725.1	5390	4341	835	214	0	4107	5514	4387	906	221	0	4123	98.92	4294
GCF_011769805.1	5365	4370	833	162	0	4109	5529	4415	932	182	0	4127	99.56	4322

GCF_011769825.1	5444	4321	831	292	0	4097	5560	4384	879	297	0	4118	98.48	4275
GCF_012029695.2	5434	4330	812	292	0	4110	5566	4352	907	307	0	4130	98.71	4285
GCF_012029895.2	5033	4359	473	201	0	4110	5115	4408	502	205	0	4134	99.35	4313
GCF_012029935.2	5316	4197	735	384	0	4038	5464	4225	827	412	0	4055	95.72	4155
GCF_012029945.2	5342	4367	913	62	0	4104	5472	4399	1007	66	0	4119	99.49	4319
GCF_012029975.2	5228	4354	788	86	0	4110	5352	4382	875	95	0	4124	99.22	4307
GCF_012030545.2	5305	4381	907	17	0	4117	5454	4423	1014	17	0	4140	99.82	4333
GCF_012113615.1	4871	4343	303	225	0	4111	4925	4378	317	230	0	4129	99.01	4298
GCF_012113635.1	4939	4311	387	241	0	4082	5017	4351	423	243	0	4100	98.25	4265
GCF_012113655.1	4995	4353	441	201	0	4115	5130	4399	524	207	0	4142	99.22	4307
GCF_012166915.1	5448	4189	597	662	0	3967	5623	4249	703	671	0	3995	95.51	4146
GCF_012167075.1	4968	4326	372	270	0	4108	5004	4356	375	273	0	4129	98.69	4284
GCF_012167215.1	5088	4334	455	299	0	4105	5159	4366	491	302	0	4124	98.85	4291
GCF_012167385.1	4848	4310	342	196	0	4091	4928	4350	374	204	0	4111	98.3	4267
GCF_012168575.2	5393	4254	614	525	0	4014	5439	4280	626	533	0	4038	96.91	4207
GCF_012169405.1	5009	4324	362	323	0	4087	5043	4352	367	324	0	4102	98.62	4281
GCF_012944055.1	5166	4250	507	409	0	4046	5208	4283	515	410	0	4064	96.82	4203
GCF_013168295.1	4959	4291	446	222	0	4099	4999	4321	456	222	0	4112	97.79	4245
GCF_013282295.1	5036	4345	467	224	0	4106	5088	4376	483	229	0	4127	99.01	4298
GCF_013283935.1	4874	4289	431	154	0	4076	4920	4330	434	156	0	4092	97.72	4242
GCF_013305305.1	5298	4363	906	29	0	4098	5434	4404	1001	29	0	4118	99.4	4315
GCF_013305325.1	5365	4299	739	327	0	4095	5474	4333	791	350	0	4119	98	4254
GCF_013348885.1	5443	4355	1030	58	0	4115	5591	4410	1123	58	0	4137	99.24	4308
GCF_013348905.1	5441	4355	1029	57	0	4115	5589	4409	1123	57	0	4137	99.24	4308
GCF_013348925.1	5436	4355	1021	60	0	4115	5579	4406	1113	60	0	4137	99.24	4308
GCF_013348945.1	5438	4355	1022	61	0	4115	5580	4406	1113	61	0	4137	99.24	4308
GCF_013348965.1	5441	4355	1027	59	0	4115	5586	4409	1118	59	0	4137	99.24	4308
GCF_013348985.1	5430	4355	1021	54	0	4115	5574	4407	1113	54	0	4137	99.24	4308
GCF_013349005.1	5445	4355	1029	61	0	4115	5591	4410	1120	61	0	4137	99.24	4308
GCF_013349025.1	5440	4355	1028	57	0	4115	5590	4409	1124	57	0	4137	99.24	4308

GCF_013349045.1	5437	4355	1026	56	0	4115	5583	4410	1117	56	0	4137	99.24	4308
GCF_013349065.1	5440	4355	1029	56	0	4115	5587	4409	1122	56	0	4137	99.24	4308
GCF_013349085.1	5439	4355	1029	55	0	4115	5586	4409	1122	55	0	4137	99.24	4308
GCF_013374975.1	5258	4373	795	90	0	4114	5399	4409	898	92	0	4130	99.63	4325
GCF_013376535.1	4972	4185	705	82	0	3946	5077	4217	778	82	0	3962	95.39	4141
GCF_013376555.1	5054	4360	545	149	0	4110	5110	4390	564	156	0	4122	99.33	4312
GCF_013376595.1	4841	4356	351	134	0	4111	4863	4376	352	135	0	4126	99.31	4311
GCF_013378155.1	5141	4381	640	120	0	4113	5253	4420	704	129	0	4131	99.84	4334
GCF_013378175.1	5138	4382	639	117	0	4114	5250	4420	704	126	0	4131	99.86	4335
GCF_013378195.1	5137	4382	639	116	0	4114	5251	4421	705	125	0	4132	99.86	4335
GCF_013378215.1	5137	4381	639	117	0	4113	5253	4421	706	126	0	4131	99.84	4334
GCF_013378235.1	5137	4382	639	116	0	4114	5252	4421	706	125	0	4132	99.86	4335
GCF_013378255.1	5143	4359	575	209	0	4104	5207	4397	595	215	0	4123	99.33	4312
GCF_013378275.1	5137	4363	578	196	0	4108	5205	4407	598	200	0	4127	99.42	4316
GCF_013378295.1	5137	4382	640	115	0	4114	5251	4422	705	124	0	4133	99.86	4335
GCF_013378315.1	5137	4382	639	116	0	4114	5251	4422	704	125	0	4133	99.86	4335
GCF_013407605.1	4881	4338	477	66	0	4083	4950	4363	521	66	0	4097	98.87	4292
GCF_013407825.1	4909	4337	549	23	0	4094	5000	4360	617	23	0	4106	98.85	4291
GCF_013408255.1	4533	4331	156	46	0	4090	4557	4349	162	46	0	4102	98.76	4287
GCF_013408385.1	4564	4335	160	69	0	4094	4589	4354	166	69	0	4106	98.85	4291
GCF_013408625.1	4536	4335	157	44	0	4094	4563	4355	164	44	0	4106	98.85	4291
GCF_013408755.1	4871	4365	479	27	0	4108	4938	4389	522	27	0	4121	99.47	4318
GCF_013409055.1	4859	4338	504	17	0	4082	4950	4362	571	17	0	4095	98.92	4294
GCF_013409165.1	4865	4355	489	21	0	4097	4933	4379	533	21	0	4110	99.26	4309
GCF_013416035.1	5204	4385	754	65	0	4116	5305	4424	816	65	0	4139	99.91	4337
GCF_013416055.1	5170	4385	722	63	0	4116	5254	4419	772	63	0	4139	99.91	4337
GCF_013416085.1	5127	4381	638	108	0	4113	5237	4417	703	117	0	4128	99.84	4334
GCF_013416105.1	5115	4377	634	104	0	4113	5230	4415	702	113	0	4128	99.72	4329
GCF_013416125.1	5112	4382	634	96	0	4114	5212	4419	697	96	0	4132	99.86	4335
GCF_013423825.1	5335	4370	715	250	0	4110	5465	4404	808	253	0	4127	99.56	4322

GCF_013426775.1	5110	4045	411	654	0	3906	5398	4095	612	691	0	3922	92.31	4007
GCF_013611495.1	5450	4271	661	518	0	4057	5792	4311	816	665	0	4077	97.35	4226
GCF_013694405.1	5335	4353	847	135	0	4116	5412	4385	889	138	0	4133	99.17	4305
GCF_013694425.1	5188	4348	758	82	0	4112	5237	4376	779	82	0	4128	99.06	4300
GCF_013704985.1	5157	4223	463	471	0	4038	5271	4274	525	472	0	4057	96.45	4187
GCF_013724605.1	5301	4293	556	452	0	4069	5467	4353	602	512	0	4087	97.86	4248
GCF_013729075.1	5059	4344	474	241	0	4112	5097	4364	487	246	0	4126	99.03	4299
GCF_013730675.1	4832	4325	297	210	0	4112	4868	4354	301	213	0	4133	98.57	4279
GCF_013731305.1	5140	4354	591	195	0	4111	5237	4415	627	195	0	4149	99.24	4308
GCF_013731735.1	5383	4271	631	481	0	4055	5688	4309	760	619	0	4075	97.35	4226
GCF_013734035.1	5343	4284	453	606	0	4057	5501	4347	537	617	0	4077	97.77	4244
GCF_013735155.1	5123	4320	531	272	0	4103	5209	4374	558	277	0	4126	98.46	4274
GCF_013735895.1	5360	4324	569	467	0	4097	5555	4371	695	489	0	4122	98.62	4281
GCF_013736155.1	5546	4318	720	508	0	4102	5713	4361	832	520	0	4121	98.43	4273
GCF_013737695.1	5033	4226	427	380	0	4039	5298	4303	603	392	0	4058	96.45	4187
GCF_013745295.1	4843	4328	357	158	0	4110	4885	4349	377	159	0	4126	98.66	4283
GCF_013749075.1	4984	4305	485	194	0	4107	5053	4338	517	198	0	4124	98.13	4260
GCF_013782105.1	5092	4307	450	335	0	4096	5237	4352	543	342	0	4116	98.18	4262
GCF_013783245.1	4934	4364	418	152	0	4116	4964	4387	425	152	0	4134	99.47	4318
GCF_013791265.1	5061	4327	497	237	0	4106	5118	4364	516	238	0	4124	98.57	4279
GCF_013792545.1	5040	4241	455	344	0	4059	5209	4304	559	346	0	4081	96.8	4202
GCF_013796245.1	5138	4345	494	299	0	4109	5206	4388	517	301	0	4138	98.99	4297
GCF_013796485.1	5141	4345	494	302	0	4109	5203	4386	515	302	0	4136	98.99	4297
GCF_013805705.1	5071	4348	454	269	0	4111	5134	4385	479	270	0	4127	99.06	4300
GCF_013811445.1	5169	4326	510	333	0	4112	5216	4355	527	334	0	4130	98.64	4282
GCF_013811845.1	4969	4357	350	262	0	4107	5027	4375	378	274	0	4121	99.4	4315
GCF_013813035.1	4914	4345	425	144	0	4110	4974	4366	459	149	0	4123	99.06	4300
GCF_013826045.1	5241	4327	581	333	0	4113	5286	4343	608	335	0	4128	98.69	4284
GCF_013834745.1	5167	4358	512	297	0	4112	5233	4392	538	303	0	4139	99.31	4311
GCF_013895695.1	4890	4311	342	237	0	4106	4912	4328	345	239	0	4120	98.3	4267

GCF_014108845.1	5443	4364	908	171	0	4110	5620	4423	1018	179	0	4131	99.42	4316
GCF_014123345.1	5137	4330	610	197	0	4107	5242	4366	678	198	0	4129	98.69	4284
GCF_014168575.1	5012	4328	492	192	0	4106	5051	4358	501	192	0	4127	98.59	4280
GCF_014168655.1	4928	4320	452	156	0	4088	4980	4351	473	156	0	4107	98.5	4276
GCF_014169335.1	4895	4316	431	148	0	4094	4922	4335	439	148	0	4108	98.34	4269
GCF_014169375.1	4945	4325	413	207	0	4103	4987	4356	424	207	0	4125	98.57	4279
GCF_014170015.1	5194	4320	567	307	0	4080	5278	4354	614	310	0	4101	98.46	4274
GCF_014170935.1	5450	4297	759	394	0	4102	5555	4337	816	402	0	4128	97.97	4253
GCF_014189335.1	5200	4316	556	328	0	4099	5273	4348	591	334	0	4112	98.43	4273
GCF_014304835.1	5350	4295	664	391	0	4083	5427	4337	699	391	0	4103	97.9	4250
GCF_014361115.1	5116	4313	504	299	0	4066	5197	4350	541	306	0	4079	98.25	4265
GCF_014495765.1	5244	4349	773	122	0	4113	5315	4383	806	126	0	4129	99.08	4301
GCF_014495785.1	5224	4349	762	113	0	4115	5303	4385	798	120	0	4132	99.08	4301
GCF_014524525.1	5195	4324	652	219	0	4103	5265	4355	690	220	0	4123	98.55	4278
GCF_900323945.1	4742	4302	307	133	0	4090	4774	4316	320	138	0	4103	98.11	4259
GCF_900497045.1	5155	4327	645	183	0	4108	5210	4352	667	191	0	4127	98.64	4282
GCF_900497055.1	5170	4327	647	196	0	4108	5238	4361	673	204	0	4135	98.64	4282
GCF_900497475.1	4950	4347	446	157	0	4109	4985	4370	456	159	0	4124	99.1	4302
GCF_900622605.1	5171	4321	567	283	0	4111	5252	4369	597	286	0	4140	98.46	4274
GCF_900622645.1	5249	4371	836	42	0	4113	5328	4407	879	42	0	4132	99.59	4323
GCF_900635125.1	4710	4237	212	261	0	4033	4743	4257	224	262	0	4050	96.73	4199
GCF_900635995.1	5138	4286	468	384	0	4061	5222	4317	506	399	0	4078	97.7	4241
GCF_900636455.1	4914	4331	369	214	0	4099	5039	4376	416	247	0	4124	98.76	4287
GCF_901421925.1	4787	4283	168	336	0	4059	4852	4308	191	353	0	4079	97.6	4237
GCF_901422065.1	4790	4359	271	160	0	4105	4819	4383	274	162	0	4117	99.45	4317
GCF_902723695.1	5057	4349	558	150	0	4106	5102	4383	569	150	0	4122	99.19	4306
GCF_902723705.1	5191	4351	591	249	0	4107	5231	4382	600	249	0	4122	99.22	4307
GCF_902827215.1	5201	4269	518	414	0	4058	5320	4296	579	445	0	4074	97.4	4228
GCF_902855135.1	4739	4298	221	220	0	4080	4786	4325	233	228	0	4101	97.93	4251
KP6870155	5129	4346	453	330	0	4102	5219	4383	495	341	0	4125	99.06	4300

#soft_core=0.95

#duplication_margin=0.05