

Supplement Table 1

Organism	G+C (%)	Size (Mb)	Variants	Type	Coverage	Reads (Counts)	Var_Cov	Experiment
Candidatus_protochlamydia_amoebophila_UWE25	34	2.4	135	ALL	400x	9600000	16x	sim_135VAR
Candidatus_protochlamydia_amoebophila_UWE25	34	2.4	135	ALL	160x	3840000	16x	sim_135VAR
Candidatus_protochlamydia_amoebophila_UWE25	34	2.4	135	ALL	80x	1920000	16x	sim_135VAR
Candidatus_protochlamydia_amoebophila_UWE25	34	2.4	100	SNP	400x	9600000	16x	sim_100SNP
Candidatus_protochlamydia_amoebophila_UWE25	34	2.4	100	IndelS	400x	9600000	16x	sim_100IndS
Candidatus_protochlamydia_amoebophila_UWE25	34	2.4	100	IndelL	400x	9600000	16x	sim_100IndL
Candidatus_protochlamydia_amoebophila_UWE25	34	2.4	50	DUP	400x	9600000	16x	sim_50DUP
Candidatus_protochlamydia_amoebophila_UWE25	34	2.4	50	ITX	400x	9600000	16x	sim_50ITX
Candidatus_protochlamydia_amoebophila_UWE25	34	2.4	50	INV	400x	9600000	16x	sim_50INV
Streptomyces_coelicolor_A3	72	8.66	135	ALL	400x	34640000	16x	sim_135VAR
Buchnera_aphidicola_APS	26	0.68	135	ALL	400x	2720000	16x	sim_135VAR
Rickettsia_conorii_Malish7	32	1.27	135	ALL	400x	5080000	16x	sim_135VAR
Escherichia_coli_K12_MG1654	50	4.64	135	ALL	400x	18560000	16x	sim_135VAR
Mycobacterium_tuberculosis_H37Rv	65	4.41	135	ALL	400x	17640000	16x	sim_135VAR
Sulfolobus_islandicus_LAL14-1	35	2.46	135	ALL	400x	9840000	16x	sim_135VAR
Candidatus_protochlamydia_amoebophila_UWE25	34	2.4	135	ALL	500x	12307692	20x	Simseq 500X
Candidatus_protochlamydia_amoebophila_UWE25	34	2.4	135	ALL	500x	12307692	20x	pirs 500x
Candidatus_protochlamydia_amoebophila_UWE25	34	2.4	21000	ALL	400x	9600000	16x	alfsim
Candidatus_protochlamydia_amoebophila_UWE25	34	2.4	80	ALL	500x	12307692	>10x/2%MRA	EE_reseq

Table 4 Overview of the analysed organisms and datasets. The table shows an overview of the simulated and resequenced datasets with regard to organism information, variant types and counts and total and variant coverages.

Supplement Table 2

VARIANT_POS	POS	INFO	
51321	51320	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,4/5,BPnon,nd/5	nd,5:0:205:2
51321	52629	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,3/5,BPnon,nd/8	nd,8:0:202:3
64717	64718	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,3/5,BPnon,nd/6	nd,6:0:217:2
64717	65826	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,4/5,BPnon,nd/5	nd,5:0:184:2
126696	126696	SVTYPE=COMPLEX;SVLEN=0;SVCALL=cortex,1/5,COMPLEX,0,1554/275	1554,275:0:173:158
126696	126696	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,5/5,BPnon,nd/6	nd,6:0:173:3
126696	128532	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,2/5,BPnon,nd/6	nd,6:0:188:3
221395	222348	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,3/5,BPnon,nd/6	nd,6:0:188:3
251862	251861	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,2/5,BPnon,nd/4	nd,4:0:190:2
251862	252969	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,2/5,BPnon,nd/6	nd,6:0:212:2
267649	267648	SVTYPE=COMPLEX;SVLEN=0;SVCALL=cortex,1/5,COMPLEX,0,1000/187	1000,187:0:192:97
267649	267648	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,2/5,BPnon,nd/4	nd,4:0:192:2
267649	268801	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,4/5,BPnon,nd/6	nd,6:0:193:3
371674	371673	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,3/5,BPnon,nd/5	nd,5:0:186:2
371674	372470	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,5/5,BPnon,nd/6	nd,6:0:197:3
399846	399845	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,2/5,BPnon,nd/6	nd,6:0:197:3
399846	401820	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,3/5,BPnon,nd/5	nd,5:0:203:2
431218	431217	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,3/5,BPnon,nd/6	nd,6:0:203:2
431218	432414	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,4/5,BPnon,nd/5	nd,5:0:177:2
481825	481825	SVTYPE=COMPLEX;SVLEN=0;SVCALL=cortex,1/5,COMPLEX,0,401/59	401,59:0:191:30
481825	481825	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,3/5,BPnon,nd/6	nd,6:0:191:3
481825	482218	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,5/5,BPnon,nd/7	nd,7:0:212:3
609994	609993	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,2/5,BPnon,nd/9	nd,9:0:185:4
609994	610981	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,1/5,BPnon,nd/4	nd,4:0:183:2
641028	641027	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,3/5,BPnon,nd/6	nd,6:0:213:2
641028	642370	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,2/5,BPnon,nd/5	nd,5:0:207:2
650739	650738	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,2/5,BPnon,nd/6	nd,6:0:184:3
650739	651513	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,3/5,BPnon,nd/5	nd,5:0:197:2
658882	658881	SVTYPE=COMPLEX;SVLEN=0;SVCALL=cortex,1/5,COMPLEX,0,502/85	502,85:0:179:47
658882	658881	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,3/5,BPnon,nd/6	nd,6:0:179:3
658882	659403	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,2/5,BPnon,nd/6	nd,6:0:187:3
680013	680012	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,3/5,BPnon,nd/4	nd,4:0:190:2
680013	681743	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,4/5,BPnon,nd/6	nd,6:0:200:3
687351	687352	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,2/5,BPnon,nd/8	nd,8:0:201:3
834040	834595	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,1/5,BPnon,nd/6	nd,6:0:192:3
919055	920874	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,4/5,BPnon,nd/5	nd,5:0:207:2
942949	942948	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,3/5,BPnon,nd/6	nd,6:0:190:3
942949	944014	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,2/5,BPnon,nd/5	nd,5:0:207:2
958460	958459	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,3/5,BPnon,nd/8	nd,8:0:200:4
958460	960220	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,3/5,BPnon,nd/5	nd,5:0:187:2
967751	967750	SVTYPE=COMPLEX;SVLEN=0;SVCALL=cortex,1/5,COMPLEX,0,704/106	704,106:0:175:60
967751	967750	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,2/5,BPnon,nd/4	nd,4:0:175:2
967751	968529	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,2/5,BPnon,nd/5	nd,5:0:187:2
1043227	1043226	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,1/5,BPnon,nd/4	nd,4:0:198:2
1043227	1045117	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,4/5,BPnon,nd/6	nd,6:0:180:3
1050625	1052241	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,4/5,BPnon,nd/5	nd,5:0:204:2
1071667	1073009	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,2/5,BPnon,nd/4	nd,4:0:177:2
1089367	1089366	SVTYPE=INV_INDEL;SVLEN=0;SVCALL=cortex,2/5,INV_INDEL,0,577/75	577,75:0:211:35
1089367	1089366	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,3/5,BPnon,nd/6	nd,6:0:211:2
1089367	1089932	IMPRECISE;SVTYPE=BP;SVLEN=non;SVCALL=pindel_B,2/5,BPnon,nd/6	nd,6:0:183:3

Supplement Table 2 Observed variant calls for synthetic variant data containing only inversions. The first column shows the inserted variant position (VARIANT_POS), the second column shown the observed caller positions for the variant (POS), the third column (INFO) shows the information about type, length, caller, read coverage and the forth column shows reference read coverage, variant read coverage, variance of variant read coverage, total read coverage and variant read coverage in percent. Shown are the first 10 calls for in total 50 inversions. Pindel detects inversions as break positions (SVTYPE=BP) at the start and mostly also at the end of the inversion. Cortex on the other hand detects the inverted sequence itself (COMPLEX or INV_INDEL), however at lower sensitivity (e.g. 1/5 means one out of five).

Supplement Table 3

40814	G	A	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,305/82:cortex,5/5,SNP,0,123/39:v arscan,5/5,SNP,0,303/79:lof req2,5/5,SNP,0,305/82;EFF=NON_SYNONYMOUS_C
138004	G	A	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,356/20:v arscan,5/5,SNP,0,356/19:lof req2,5/5,SNP,0,356/20;EFF=SYNONYMOUS_CODING(Low SILENT gtG gtA
232175	G	A	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,3/5,SNP,0,295/13:v arscan,5/5,SNP,0,299/10:lof req2,5/5,SNP,0,302/11;EFF=NON_SYNONYMOUS_CODING(MODERATE MI
294277	G	A	SVTYPE=SNP;SVLEN=0;SVCALL=v arscan,2/5,SNP,0,250/6:lof req2,1/5,SNP,0,272/12;EFF=NON_SYNONYMOUS_CODING(MODERATE MISSENSE gGc/gAc G69D 3
296727	TC	T	SVTYPE=DEL/IND;SVLEN=-1;SVCALL=pindel,5/5,DEL,-1,nd/257:cortex,10/5,DEL,-1,0/181:v arscan,5/5,IND,-1,27/316;EFF=FRAME_SHIFT(HIGH - 67 78 sctS) COD
309005	GA	G	SVTYPE=DEL/IND;SVLEN=-1;SVCALL=pindel,4/5,DEL,-1,nd/7:v arscan,4/5,IND,-1,394/8;EFF=FRAME_SHIFT(HIGH - 327 671 tsp) CODING pc0214 1)
441769	C	T	SVTYPE=SNP;SVLEN=0;SVCALL=v arscan,3/5,SNP,0,310/6:lof req2,1/5,SNP,0,326/8;EFF=NON_SYNONYMOUS_CODING(MODERATE MISSENSE Ggc/Agc G85S 60
483734	G	A	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,402/15:v arscan,5/5,SNP,0,402/15:lof req2,5/5,SNP,0,402/15;EFF=NON_SYNONYMOUS_CODING(MODERATE MI
556945	G	A	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,349/19:v arscan,5/5,SNP,0,348/18:lof req2,5/5,SNP,0,349/19;EFF=NON_SYNONYMOUS_CODING(MODERATE MI
611482	A	G	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,218/218:cortex,10/5,SNP,0,118/123:v arscan,5/5,SNP,0,217/214:lof req2,5/5,SNP,0,218/219;EFF=NON_SYNONYMOUS_C
641192	G	A	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,300/31:lof req2,5/5,SNP,0,300/31;EFF=INTERGENIC(MODIFIER)
641212	C	T	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,305/35:lof req2,5/5,SNP,0,305/35;EFF=INTERGENIC(MODIFIER)
648389	G	T	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,279/36:v arscan,5/5,SNP,0,276/6:lof req2,5/5,SNP,0,279/36;EFF=NON_SYNONYMOUS_CODING(MODERATE MI
648392	C	T	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,275/36:v arscan,5/5,SNP,0,266/5:lof req2,5/5,SNP,0,275/36;EFF=NON_SYNONYMOUS_CODING(MODERATE MI
688460	G	A	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,326/59:cortex,3/5,SNP,0,134/37:v arscan,5/5,SNP,0,325/59:lof req2,5/5,SNP,0,326/59;EFF=NON_SYNONYMOUS_C
704914	A	C	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,0/355:cortex,10/5,SNP,0,0/198:v arscan,5/5,SNP,0,0/351:lof req2,5/5,SNP,0,0/357;EFF=NON_SYNONYMOUS_COC
732643	A	G	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,5/360:cortex,10/5,SNP,0,0/200:v arscan,5/5,SNP,0,5/356:lof req2,5/5,SNP,0,5/360;EFF=NON_SYNONYMOUS_COC
735008	TA	T	SVTYPE=INS/IND;SVLEN=1;SVCALL=pindel,5/5,INS,1,nd/297:cortex,10/5,INS,1,0/194:v arscan,5/5,IND,1,55/340;EFF=FRAME_SHIFT(HIGH - A -48 67 nusG) COD
744720	C	T	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,198/197:cortex,10/5,SNP,0,112/114:v arscan,5/5,SNP,0,200/194:lof req2,5/5,SNP,0,198/198;EFF=NON_SYNONYMOUS_C
745058	C	T	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,333/53:cortex,2/5,SNP,0,128/35:v arscan,5/5,SNP,0,332/51:lof req2,5/5,SNP,0,333/53;EFF=NON_SYNONYMOUS_C
845218	A	G	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,0/286:cortex,10/5,SNP,0,0/170:v arscan,5/5,SNP,0,0/282:lof req2,5/5,SNP,0,0/287;EFF=SYNONYMOUS_CODING(L
867911	C	T	SVTYPE=SNP;SVLEN=0;SVCALL=v arscan,2/5,SNP,0,231/5:lof req2,1/5,SNP,0,232/8;EFF=NON_SYNONYMOUS_CODING(MODERATE MISSENSE Gct/Act A422T 44
867936	G	A	SVTYPE=SNP;SVLEN=0;SVCALL=v arscan,2/5,SNP,0,243/5;EFF=SYNONYMOUS_CODING(Low SILENT ggC/ggT G413 445 pc0714) CODING pc0714)
1089984	GA	G	SVTYPE=DEL/IND;SVLEN=-1;SVCALL=pindel,5/5,DEL,-1,nd/37:v arscan,5/5,IND,-1,318/46;EFF=FRAME_SHIFT(HIGH - 410 801 pc0899) CODING pc0899 1)
1149395	TA	T	SVTYPE=DEL/IND;SVLEN=-1;SVCALL=pindel,2/5,DEL,-1,nd/5:v arscan,2/5,IND,-1,290/6;EFF=FRAME_SHIFT(HIGH - 43 530 lig) CODING pc0950 1)
1203101	AT	A	SVTYPE=DEL/IND;SVLEN=-1;SVCALL=pindel,3/5,DEL,-1,nd/6:v arscan,3/5,IND,-1,299/6;EFF=FRAME_SHIFT(HIGH - 165 936 pc1009) CODING pc1009 1)
1230711	T	C	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,232/22:v arscan,5/5,SNP,0,363/30:lof req2,5/5,SNP,0,228/23;EFF=INTERGENIC(MODIFIER)
1256060	C	T	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,235/209:cortex,10/5,SNP,0,127/117:v arscan,5/5,SNP,0,233/203:lof req2,5/5,SNP,0,235/209;EFF=NON_SYNONYMOUS_C
1296033	G	A	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,291/19:v arscan,5/5,SNP,0,289/18:lof req2,5/5,SNP,0,291/19;EFF=NON_SYNONYMOUS_CODING(MODERATE MI
1338568	AT	A	SVTYPE=DEL/IND;SVLEN=-1;SVCALL=pindel,5/5,DEL,-1,nd/16:v arscan,5/5,IND,-1,352/21;EFF=FRAME_SHIFT(HIGH - 633 682 pc1117) CODING pc1117 1)
1339224	AT	A	SVTYPE=DEL/IND;SVLEN=-1;SVCALL=pindel,5/5,DEL,-1,nd/34:v arscan,5/5,IND,-1,257/39;EFF=FRAME_SHIFT(HIGH - 414 682 pc1117) CODING pc1117 1)
1339720	A	T	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,273/126:cortex,10/5,SNP,0,140/73:v arscan,5/5,SNP,0,274/123:lof req2,5/5,SNP,0,273/126;EFF=STOP_GAINED(HIG
1466036	G	G	SVTYPE=DEL/INS/IND;SVLEN=-1;SVCALL=pindel,6/5,DEL/INS,-1,nd/9:v arscan,7/5,IND,-1,269/10;EFF=FRAME_SHIFT(HIGH - A -82 354 pc1231) CODING pc1231
1523646	G	A	SVTYPE=SNP;SVLEN=0;SVCALL=v arscan,2/5,SNP,0,326/7;EFF=SYNONYMOUS_CODING(Low SILENT ttG ttA L468 618 pc1272) CODING pc1272)
1603884	CT	C	SVTYPE=DEL/IND;SVLEN=-1;SVCALL=pindel,4/5,DEL,-1,nd/7:v arscan,5/5,IND,-1,335/8;EFF=INTERGENIC(MODIFIER),UPSTREAM(MODIFIER 489 ntt_5) C
1691317	C	T	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,367/19:v arscan,5/5,SNP,0,364/19:lof req2,5/5,SNP,0,367/20;EFF=INTERGENIC(MODIFIER)
1726895	G	A	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,1/5,SNP,0,397/10:v arscan,3/5,SNP,0,396/7:lof req2,1/5,SNP,0,397/10;EFF=SYNONYMOUS_CODING(Low SILENT agC agT
1873023	G	A	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,1/5,SNP,0,238/8:lof req2,1/5,SNP,0,238/8;EFF=SYNONYMOUS_CODING(Low SILENT Cta Tta L252 380 pc1563) CODING f
2049889	G	A	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,93/296:cortex,10/5,SNP,0,59/163:v arscan,5/5,SNP,0,92/289:lof req2,5/5,SNP,0,93/296;EFF=NON_SYNONYMOUS_C
2085026	N	G	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,nd/14:v arscan,4/5,SNP,0,0/16;EFF=INTERGENIC(MODIFIER)
2131046	A	G	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,4/5,SNP,0,227/154:cortex,2/5,SNP,0,471/243:v arscan,5/5,SNP,0,373/232:lof req2,4/5,SNP,0,218/150;EFF=INTERGENIC(MOD
2160129	CA	C	SVTYPE=DEL/IND;SVLEN=-1;SVCALL=pindel,4/5,DEL,-1,nd/6:v arscan,4/5,IND,-1,318/8;EFF=FRAME_SHIFT(HIGH - 339 351 znuB) CODING pc1807 1)
2278245	G	A	SVTYPE=SNP;SVLEN=0;SVCALL=lof req2,2/5,SNP,0,389/8;EFF=NON_SYNONYMOUS_CODING(MODERATE MISSENSE cGt/cAt R544H 683 pc1915) CODING pc19
2301994	C	T	SVTYPE=SNP;SVLEN=0;SVCALL=lof req,5/5,SNP,0,246/14:v arscan,10/5,SNP,0,244/14:lof req2,5/5,SNP,0,245/14;EFF=NON_SYNONYMOUS_CODING(MODERATE MI
2406491	AT	A	SVTYPE=DEL/IND;SVLEN=-1;SVCALL=pindel,5/5,DEL,-1,nd/10:v arscan,5/5,IND,-1,296/10;EFF=INTERGENIC(MODIFIER)

Table 3 Annotations of SNPs and small Indels by SNPEff. The EFF tag at the end of each line includes the descriptions about the implications of the variant (e.g. NON-SYNONYMOUS, INTERGENIC).

Supplement Table 4

Table 4 Raw alignment files for sanger sequencing of the positions 1339224, 1339720, 1338568, which were present as subpopulations at 4, 11 and 28%.

File 1:

```
>Reference
-----AGCTGCATCATTATCTTCTAGTAAGTTTAAAAATGTAAACTCATTATTT
GTCATCATTAAAAATGTTGACTGGAAAGTTGATTAATAAAATGTTTAAAGCGGGAGTTTG
TCTAACACCTTCTAACCATTCATCATGAAGTAAATCTTCAACGGGAGGAGAGCTCCGGA
ATTTAACGCTTTCTCAAGATAATGCATGGTATGCTGCGAATGCCTGTCAATGAATATAA
ACCAGCAATCTGATAATAAGCTTGCCTATTGCCTAATGCAATCGATTGCATTAATGACT
TTCAGCTTGCCTATAAAAGCCATGAGATTTTTCAATATGATGAATGTCATGAACCAAGAT
CGCTAAATTAATCAGAGAAACGCCGAAATCCATATGAATGATTTTCATCCTCAGAATCTTG
TTC AAGGATTAAC TGAAAATGTTCAATCGCTTTAAAGTAAGGCTCGATATCGCACAAAGC
TTCCTCC AAGTGGGAATAAGCCATTGCAAGTTGTATCGAGCTTGAACATAATCGGGATC
AAGTTCTAAAATTTGTAATAAAAATTTGAATAGACTTTTTCAAAATATTGAGGCTCTTCAGT
GATATCACCCAATAAATCGTAGGCACAACCATAGTTATAGACCCATTCTAAATCTAAATC
AGTCATGTCGAGATCAACGAGAGGCTGTTTAAAGTGCTCGTTCAAATTTTTCAATTGCTTG
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File 2:

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>B05 KlonC_3674_T3

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>E06 KlonC_3674_T3
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>F05 KlonC_3674_T3
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>G05 KlonC_3674_T3
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>H05 KlonC_3674_T3
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>H06 KlonC_3674_T3
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>C05 KlonC_3674_T3 reverse complement

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GTAACAACAGGCTTGTGGTACCAGCCCTCAAATCAAAGGATTTATTTGAGTGGAGC
GATTAACAATTGCAATGCTTCATGATAGTAGTGGAC-----
>C06 KlonC_3674_T3 reverse complement

----- TCTTCAG
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