

Reference genome ID	Gene ID	Gene Length	Gene Name	Annotation
C. stinkeris NA3	HKMHBKFO_00001	2196		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00041	624		Outer membrane beta-barrel protein
C. stinkeris NA3	HKMHBKFO_00046	456		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00047	450		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00063	495		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00071	585		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00072	345		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00073	234		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00074	114		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00102	405	tarD	Glycerol-3-phosphate cytidyltransferase
C. stinkeris NA3	HKMHBKFO_00105	330		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00106	291		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00107	990		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00108	690		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00109	1197		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00110	993		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00131	981		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00134	927		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00184	1098		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00196	414		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00203	1101		IS1595 family transposase ISCo3
C. stinkeris NA3	HKMHBKFO_00204	1041		IS1595 family transposase ISCo3
C. stinkeris NA3	HKMHBKFO_00205	933		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00214	1011		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00226	402		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00227	321		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00228	333	higB1	Endoribonuclease HigB1
C. stinkeris NA3	HKMHBKFO_00229	1053	lexA_1	LexA repressor
C. stinkeris NA3	HKMHBKFO_00230	696	lexA_2	LexA repressor
C. stinkeris NA3	HKMHBKFO_00231	990		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00240	1545	murJ_1	Lipid II flippase MurJ
C. stinkeris NA3	HKMHBKFO_00241	1284		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00242	1053		hypothetical protein
C. stinkeris NA3	HKMHBKFO_00243	1056	pgIH_1	undecaprenol alpha-1,4-N-acetyl-D-galactosaminyltransferase
C. stinkeris NA3	HKMHBKFO_00244	1062	pgIH_2	undecaprenol alpha-1,4-N-acetyl-D-galactosaminyltransferase
C. stinkeris NA3	HKMHBKFO_00245	909	pgII	glucosyltransferase
C. stinkeris NA3	HKMHBKFO_00246	1041	pgIH_3	undecaprenol alpha-1,4-N-acetyl-D-galactosaminyltransferase
C. stinkeris NA3	HKMHBKFO_00247	1032	arnC	arabinose transferase
C. stinkeris NA3	HKMHBKFO_00248	1119	pgIJ	diphospho-undecaprenol 4-alpha-N-acetyl-galactosaminyltransferase

C. stinkeris NA3	HKMHBKFO_00268	735	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00282	249	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00283	342	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00284	975	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00286	1455	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00287	912	YafY family transcriptional regulator
C. stinkeris NA3	HKMHBKFO_00288	465	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00289	2208	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00290	1758	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00291	2046 mpa	Proteasome-associated ATPase
C. stinkeris NA3	HKMHBKFO_00292	288	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00293	249	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00300	357 ychN	Protein YchN
C. stinkeris NA3	HKMHBKFO_00301	243	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00319	645	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00322	252 yafN	Antitoxin YafN
C. stinkeris NA3	HKMHBKFO_00323	336	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00324	1566	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00325	762 artQ	Amino acid ABC transporter permease
C. stinkeris NA3	HKMHBKFO_00360	786	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00361	243	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00367	672	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00375	1110	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00405	1023	ATP/GTP phosphatase
C. stinkeris NA3	HKMHBKFO_00406	564	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00429	90	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00430	225	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00448	483	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00449	2580	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00450	1356	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00462	675	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00464	480	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00466	6240	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00473	717	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00474	429	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00475	1995 hxC	Heme/hemopexin utilization protein C
C. stinkeris NA3	HKMHBKFO_00476	417 exbB	TonB-system energizer ExbB
C. stinkeris NA3	HKMHBKFO_00477	387 exbD	TonB system transport protein ExbD
C. stinkeris NA3	HKMHBKFO_00478	726	Energy transducer TonB
C. stinkeris NA3	HKMHBKFO_00499	1062	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00506	897 cas1	Type II CRISPR-associated endonuclease Cas1
C. stinkeris NA3	HKMHBKFO_00507	312 cas2	CRISPR-associated endonuclease Cas2
C. stinkeris NA3	HKMHBKFO_00532	1011	hypothetical protein

C. stinkeris NA3	HKMHBKFO_00553	642	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00569	666	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00599	123	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00628	903	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00646	2487	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00659	1545	opgE Phosphoethanolamine transferase OpgE
C. stinkeris NA3	HKMHBKFO_00669	594	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00672	384	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00716	1989	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00735	2838	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00736	1749	Site-specific DNA-methyltransferase
C. stinkeris NA3	HKMHBKFO_00737	150	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00740	303	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00753	1107	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00754	564	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00769	1533	btuB Vitamin B12 transporter BtuB
C. stinkeris NA3	HKMHBKFO_00776	1497	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00777	1212	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00790	2304	hypF Carbamoyltransferase HypF
C. stinkeris NA3	HKMHBKFO_00815	1344	Anaerobic C4-dicarboxylate transporter
C. stinkeris NA3	HKMHBKFO_00828	1734	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00840	1032	ftsK DNA translocase FtsK
C. stinkeris NA3	HKMHBKFO_00841	495	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00842	2043	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00843	1746	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00853	186	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00863	645	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00934	234	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00960	258	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00961	285	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00963	297	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00964	339	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00965	5202	rep ATP-dependent DNA helicase Rep
C. stinkeris NA3	HKMHBKFO_00981	687	hypothetical protein
C. stinkeris NA3	HKMHBKFO_00997	153	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01016	468	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01020	2919	recD2 ATP-dependent RecD-like DNA helicase
C. stinkeris NA3	HKMHBKFO_01021	1047	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01022	762	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01023	2742	ftsH_2 ATP-dependent zinc metalloprotease FtsH
C. stinkeris NA3	HKMHBKFO_01024	633	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01066	1050	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01075	1113	hypothetical protein

C. stinkeris NA3	HKMHBKFO_01076	597	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01077	261	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01102	1224	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01120	681	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01127	708	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01150	267	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01189	798	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01228	591	Outer membrane beta-barrel protein
C. stinkeris NA3	HKMHBKFO_01278	642	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01280	747	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01281	1077	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01282	1803	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01294	441	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01332	618	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01333	777	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01334	336	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01335	225	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01336	1227 intA	Prophage integrase IntA
C. stinkeris NA3	HKMHBKFO_01401	600	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01420	543	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01434	849	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01443	579	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01460	1278	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01466	1755	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01471	516	purine-nucleoside phosphorylase
C. stinkeris NA3	HKMHBKFO_01543	444	hypothetical protein
C. stinkeris NA3	HKMHBKFO_01565	291	hypothetical protein
C. noahi NE2	KHAFFMAE_00025	462	hypothetical protein
C. noahi NE2	KHAFFMAE_00034	306	hypothetical protein
C. noahi NE2	KHAFFMAE_00035	939	hypothetical protein
C. noahi NE2	KHAFFMAE_00076	930	hypothetical protein
C. noahi NE2	KHAFFMAE_00080	969	hypothetical protein
C. noahi NE2	KHAFFMAE_00081	117	hypothetical protein
C. noahi NE2	KHAFFMAE_00101	1020	hypothetical protein
C. noahi NE2	KHAFFMAE_00117	492	hypothetical protein
C. noahi NE2	KHAFFMAE_00124	912	hypothetical protein
C. noahi NE2	KHAFFMAE_00134	2076	hypothetical protein
C. noahi NE2	KHAFFMAE_00135	723	hypothetical protein
C. noahi NE2	KHAFFMAE_00136	1077	hypothetical protein
C. noahi NE2	KHAFFMAE_00145	648	hypothetical protein
C. noahi NE2	KHAFFMAE_00165	231	hypothetical protein
C. noahi NE2	KHAFFMAE_00200	444	hypothetical protein
C. noahi NE2	KHAFFMAE_00226	606	hypothetical protein

C. noahi NE2	KHAFFMAE_00252	606	hypothetical protein
C. noahi NE2	KHAFFMAE_00253	1641	hypothetical protein
C. noahi NE2	KHAFFMAE_00254	690	hypothetical protein
C. noahi NE2	KHAFFMAE_00266	531	hypothetical protein
C. noahi NE2	KHAFFMAE_00279	1347 dcuA	Anaerobic C4-dicarboxylate transporter
C. noahi NE2	KHAFFMAE_00280	1311 dctA	Cation:dicarboxylase symporter family transporter
C. noahi NE2	KHAFFMAE_00281	681	Aspartate/glutamate racemase family protein
C. noahi NE2	KHAFFMAE_00306	2331 hypF	Carbamoyltransferase HypF
C. noahi NE2	KHAFFMAE_00326	1980 fyuA	Pesticin receptor
C. noahi NE2	KHAFFMAE_00327	1011 chuD_1	ABC transporter substrate-binding protein
C. noahi NE2	KHAFFMAE_00328	765 chuC_1	ABC transporter ATP-binding protein
C. noahi NE2	KHAFFMAE_00343	204	hypothetical protein
C. noahi NE2	KHAFFMAE_00348	870 xerC	Tyrosine recombinase XerC
C. noahi NE2	KHAFFMAE_00349	1335	hypothetical protein
C. noahi NE2	KHAFFMAE_00350	1149 sctC	Type 3 secretion system secretin
C. noahi NE2	KHAFFMAE_00351	1089	hypothetical protein
C. noahi NE2	KHAFFMAE_00352	402	hypothetical protein
C. noahi NE2	KHAFFMAE_00353	1455	hypothetical protein
C. noahi NE2	KHAFFMAE_00354	225	hypothetical protein
C. noahi NE2	KHAFFMAE_00355	387	hypothetical protein
C. noahi NE2	KHAFFMAE_00356	213	hypothetical protein
C. noahi NE2	KHAFFMAE_00357	471	hypothetical protein
C. noahi NE2	KHAFFMAE_00358	234	hypothetical protein
C. noahi NE2	KHAFFMAE_00388	213	hypothetical protein
C. noahi NE2	KHAFFMAE_00435	738	hypothetical protein
C. noahi NE2	KHAFFMAE_00437	261	hypothetical protein
C. noahi NE2	KHAFFMAE_00444	738	hypothetical protein
C. noahi NE2	KHAFFMAE_00448	2076 cstA	Carbon starvation protein A
C. noahi NE2	KHAFFMAE_00449	195 kcuS	KCU-star family selenoprotein
C. noahi NE2	KHAFFMAE_00482	987	ATP/GTP phosphatase
C. noahi NE2	KHAFFMAE_00483	549	hypothetical protein
C. noahi NE2	KHAFFMAE_00486	738	hypothetical protein
C. noahi NE2	KHAFFMAE_00538	648	hypothetical protein
C. noahi NE2	KHAFFMAE_00547	942	hypothetical protein
C. noahi NE2	KHAFFMAE_00553	630	hypothetical protein
C. noahi NE2	KHAFFMAE_00575	2436	hypothetical protein
C. noahi NE2	KHAFFMAE_00600	93	hypothetical protein
C. noahi NE2	KHAFFMAE_00607	1080	hypothetical protein
C. noahi NE2	KHAFFMAE_00634	6339	hypothetical protein
C. noahi NE2	KHAFFMAE_00636	549	hypothetical protein
C. noahi NE2	KHAFFMAE_00638	744	hypothetical protein
C. noahi NE2	KHAFFMAE_00650	717	hypothetical protein
C. noahi NE2	KHAFFMAE_00651	321	hypothetical protein

C. noahi NE2	KHAFFMAE_00652	189	hypothetical protein
C. noahi NE2	KHAFFMAE_00692	1068	hypothetical protein
C. noahi NE2	KHAFFMAE_00736	195	hypothetical protein
C. noahi NE2	KHAFFMAE_00737	438	hypothetical protein
C. noahi NE2	KHAFFMAE_00771	708 artQ	Amino acid ABC transporter permease
C. noahi NE2	KHAFFMAE_00774	729	hypothetical protein
C. noahi NE2	KHAFFMAE_00791	969	hypothetical protein
C. noahi NE2	KHAFFMAE_00798	1026	hypothetical protein
C. noahi NE2	KHAFFMAE_00800	3342 ycf3	Photosystem I assembly protein Ycf3
C. noahi NE2	KHAFFMAE_00832	801	hypothetical protein
C. noahi NE2	KHAFFMAE_00833	1041 pglH	undecaprenol alpha-1,4-N-acetyl-D-galactosaminyltransferase
C. noahi NE2	KHAFFMAE_00834	996 epsJ_1	Glycosyltransferase EpsJ
C. noahi NE2	KHAFFMAE_00835	1023 epsJ_2	Glycosyltransferase EpsJ
C. noahi NE2	KHAFFMAE_00836	204 arnC	arabinose transferase
C. noahi NE2	KHAFFMAE_00837	789	hypothetical protein
C. noahi NE2	KHAFFMAE_00838	978 epsH_1	Glycosyltransferase EpsH
C. noahi NE2	KHAFFMAE_00839	996 epsH_2	Glycosyltransferase EpsH
C. noahi NE2	KHAFFMAE_00840	1461	hypothetical protein
C. noahi NE2	KHAFFMAE_00841	1047	hypothetical protein
C. noahi NE2	KHAFFMAE_00842	438 tarD	Glycerol-3-phosphate cytidyltransferase
C. noahi NE2	KHAFFMAE_00843	1293	hypothetical protein
C. noahi NE2	KHAFFMAE_00852	1071	hypothetical protein
C. noahi NE2	KHAFFMAE_00866	735	hypothetical protein
C. noahi NE2	KHAFFMAE_00880	399	hypothetical protein
C. noahi NE2	KHAFFMAE_00892	1284	hypothetical protein
C. noahi NE2	KHAFFMAE_00942	906	hypothetical protein
C. noahi NE2	KHAFFMAE_00965	1434	hypothetical protein
C. noahi NE2	KHAFFMAE_00966	126	hypothetical protein
C. noahi NE2	KHAFFMAE_00967	975	hypothetical protein
C. noahi NE2	KHAFFMAE_00968	990	hypothetical protein
C. noahi NE2	KHAFFMAE_00998	108	hypothetical protein
C. noahi NE2	KHAFFMAE_00999	807	hypothetical protein
C. noahi NE2	KHAFFMAE_01007	498	hypothetical protein
C. noahi NE2	KHAFFMAE_01067	147	hypothetical protein
C. noahi NE2	KHAFFMAE_01068	378	hypothetical protein
C. noahi NE2	KHAFFMAE_01090	687	hypothetical protein
C. noahi NE2	KHAFFMAE_01091	468	hypothetical protein
C. noahi NE2	KHAFFMAE_01102	297	hypothetical protein
C. noahi NE2	KHAFFMAE_01120	813	hypothetical protein
C. noahi NE2	KHAFFMAE_01123	879	hypothetical protein
C. noahi NE2	KHAFFMAE_01137	93	hypothetical protein
C. noahi NE2	KHAFFMAE_01138	696	hypothetical protein

C. noahi NE2	KHAFFMAE_01162	471	hypothetical protein
C. noahi NE2	KHAFFMAE_01163	306	hypothetical protein
C. noahi NE2	KHAFFMAE_01169	537	Purine-nucleoside phosphorylase
C. noahi NE2	KHAFFMAE_01174	216	hypothetical protein
C. noahi NE2	KHAFFMAE_01196	312	hypothetical protein
C. noahi NE2	KHAFFMAE_01219	648	hypothetical protein
C. noahi NE2	KHAFFMAE_01220	1530 egtB	Hercynine oxygenase
C. noahi NE2	KHAFFMAE_01237	747	hypothetical protein
C. noahi NE2	KHAFFMAE_01239	780 hisJ_2	protein
C. noahi NE2	KHAFFMAE_01266	780	hypothetical protein
C. noahi NE2	KHAFFMAE_01302	615	hypothetical protein
C. noahi NE2	KHAFFMAE_01303	570 gmk_2	Guanylate kinase
C. noahi NE2	KHAFFMAE_01304	1050	hypothetical protein
C. noahi NE2	KHAFFMAE_01305	939	Formate dehydrogenase
C. noahi NE2	KHAFFMAE_01309	546	hypothetical protein
C. noahi NE2	KHAFFMAE_01349	537	hypothetical protein
C. noahi NE2	KHAFFMAE_01362	459	hypothetical protein
C. noahi NE2	KHAFFMAE_01441	819 cjaA_3	Cysteine ABC transporter substrate-binding protein
C. noahi NE2	KHAFFMAE_01451	774	hypothetical protein
C. noahi NE2	KHAFFMAE_01490	462	hypothetical protein
C. noahi NE2	KHAFFMAE_01494	666	hypothetical protein
C. noahi NE2	KHAFFMAE_01514	837	hypothetical protein
C. noahi NE2	KHAFFMAE_01521	669	hypothetical protein
C. noahi NE2	KHAFFMAE_01539	1185	hypothetical protein