

**Table S6.** Genes in the core genome of *Nitrosopina gracilis* and the pan-genome of our SAGs. The first two columns show the corresponding orthologous proteins and their predicted functions based on annotations in NCBI (text highlighted in grey), while the subsequent columns are based on our automated annotation in INDOGO. Text highlighted in pink, include those genes encoding enzymes that are discussed in the main text or depicted in Figure 6.

Reference genome ( <i>Nitrosopina gracilis</i> )	Locus tags	Automatic annotation based on INDOGO (this study)		Conservative tetromartine (S5 pan-genome)		Remarks	
		KOB	Predicted function based on automatic annotation with INDOGO	KOB	Predicted function based on automatic annotation with INDOGO	gene	Enzyme
Protein (in NCBI)	Predicted functions in NCBI						
CC08915.2	conserved hypothetical protein						
CC08915.3	conserved exported hypothetical protein						
CC08915.4	conserved hypothetical protein						
CC08917.1	Branch-chain amino acid aminotransferase						
CC08918.1	putative Signal transduction Histidine kinase, nitrogen specific, NtrB						
CC08918.2	Nitrogen regulation protein NtrB						
CC08918.3	putative Histidine kinase, nitrogen specific, NtrB						
CC08918.6	conserved hypothetical protein						
CC08918.7	RNA dimethyltransferase (modular protein)						
CC08918.8	hypothetical protein						
CC08919.2	putative Methyltransferase, Ubd-family						
CC08919.3	putative Methyltransferase, Ubd-family						
CC08919.5	23S rRNA (Guanosine-2'-O-methyltransferase) RmB						
CC08920.1	conserved exported hypothetical protein						
CC08920.3	conserved exported hypothetical protein						
CC08920.4	conserved hypothetical protein, nucleotide-binding protein						
CC08920.5	Acylphosphatase						
CC08920.6	hypothetical protein NtrB_100211						
CC08920.7	Methionine transporter, permease protein						
CC08920.8	Putative ABC transporter, Solute binding protein						
CC08920.9	Copper-containing nitrite reductase						
CC08920.11	putative Molybdenum cofactor guanyltransferase						
CC08921.1	exported hypothetical protein						
CC08921.2	conserved hypothetical protein						
CC08921.3	conserved membrane hypothetical protein						
CC08921.4	conserved hypothetical protein, nucleotide-binding protein						
CC08921.5	hypothetical protein NtrB_100200						
CC08921.6	conserved hypothetical protein						
CC08921.7	hypothetical protein NtrB_100204						
CC08921.8	hypothetical protein NtrB_100204						
CC08921.9	hypothetical protein NtrB_100204						
CC08921.10	hypothetical protein NtrB_100204						
CC08921.11	hypothetical protein NtrB_100204						
CC08921.12	hypothetical protein NtrB_100204						
CC08921.13	hypothetical protein NtrB_100204						
CC08921.14	hypothetical protein NtrB_100204						
CC08921.15	hypothetical protein NtrB_100204						
CC08921.16	hypothetical protein NtrB_100204						
CC08921.17	hypothetical protein NtrB_100204						
CC08921.18	hypothetical protein NtrB_100204						
CC08921.19	hypothetical protein NtrB_100204						
CC08921.20	hypothetical protein NtrB_100204						
CC08921.21	hypothetical protein NtrB_100204						
CC08921.22	hypothetical protein NtrB_100204						
CC08921.23	hypothetical protein NtrB_100204						
CC08921.24	hypothetical protein NtrB_100204						
CC08921.25	hypothetical protein NtrB_100204						
CC08921.26	hypothetical protein NtrB_100204						
CC08921.27	hypothetical protein NtrB_100204						
CC08921.28	hypothetical protein NtrB_100204						
CC08921.29	hypothetical protein NtrB_100204						
CC08921.30	hypothetical protein NtrB_100204						
CC08921.31	hypothetical protein NtrB_100204						
CC08921.32	hypothetical protein NtrB_100204						
CC08921.33	hypothetical protein NtrB_100204						
CC08921.34	hypothetical protein NtrB_100204						
CC08921.35	hypothetical protein NtrB_100204						
CC08921.36	hypothetical protein NtrB_100204						
CC08921.37	hypothetical protein NtrB_100204						
CC08921.38	hypothetical protein NtrB_100204						
CC08921.39	Peptide chain release factor 2 (PRF-2)						
CC08921.40	putative Spelmine synthase						
CC08921.41	putative Spelmine synthase ATP						
CC08921.42	4-hydroxyproline-4-phosphate dehydrogenase						
CC08921.43	4-hydroxyproline-4-phosphate dehydrogenase						
CC08921.44	4-hydroxyproline-4-phosphate dehydrogenase A						
CC08921.45	Uroporphyrinogen-III-formyltransferase C 3-methyltransferase						
CC08921.46	Plasmid maintenance system alpha protein						
CC08921.47	alpha-protein						
CC08921.48	alpha-protein						
CC08921.49	Pyc-C type peptidyl-prolyl-cis-trans-isomerase						
CC08921.50	Radical SAM domain protein						
CC08921.51	conserved hypothetical protein						
CC08921.52	conserved hypothetical protein						
CC08921.53	conserved hypothetical protein						
CC08921.54	conserved hypothetical protein						
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CC08921.168	conserved hypothetical protein						
CC08921.169	conserved hypothetical protein						
CC08921.170	conserved hypothetical protein						
CC08921.171	conserved hypothetical protein						
CC08921.172	conserved hypothetical protein						
CC08921.173	conserved hypothetical protein						
CC08921.174	conserved hypothetical protein						
CC08921.175	conserved hypothetical protein						
CC08921.176</td							

CC089446.1	hypothetical protein NitroR_2050009	NprA_00312	leucine-rich-repeat type III effector protein	NspA02_00476	leucine Rich-repeat domain containing protein	
CC089447.1	hypothetical protein NitroR_3050010	NprA_00313	hypothetical protein	NspA02_00477	hypothetical protein	
CC089448.1	Type III pantothenate kinase	NprA_00314	K03525	Type III pantothenate kinase protein	NspA02_00478	Type III pantothenate kinase protein
CC089449.1	putative ABC transporter, inner membrane protein	NprA_00315	hypothetical protein	NspA02_00479	hypothetical protein	
CC089450.1	Pyruvate/2-oxoglutarate dehydrogenase complex, dihydrolipoyl dehydrogenase (E3) component	NprA_00316	K03032	Dihydrolipoyl dehydrogenase protein	NspA02_00480	Dihydrolipoyl dehydrogenase protein
CC089450.2	Transcriptional regulator, sigma54-dependent	NprA_00317	K15836	Farnesyl-dihydro-oligo(3'-phosphate) regulatory NorR protein	NspA02_00481	Farnesyl-dihydro-oligo(3'-phosphate) regulatory NorR protein
CC089450.3	hypothetical protein	NprA_00318	K03535	Farnesyl-dihydro-oligo(3'-phosphate) regulatory NorR protein	NspA02_00482	Farnesyl-dihydro-oligo(3'-phosphate) regulatory NorR protein
CC089450.4	5,10-methylentetrahydrofolate reductase	NprA_00319	K02027	Serine-threonine-protein kinase ptk	NspA02_00483	Serine-threonine-protein kinase ptk
CC089520.1	hypothetical protein NitroR_3080003	NprA_00320	K02028	restriction endonuclease protein	NspA02_00484	restriction endonuclease protein
CC089526.1	Allo/hero reductase	NprA_00321	K03038	restriction endonuclease protein	NspA02_00485	restriction endonuclease protein
CC089527.1	conserved hypothetical protein	NprA_00322	K03039	1-deoxy-D-xylulose-5-phosphate reductoisomerase protein	NspA02_00486	1-deoxy-D-xylulose-5-phosphate reductoisomerase protein
CC089531.1	Glutamate dehydrogenase, mitochondrial	NprA_00323	K02021	glutamate dehydrogenase protein	NspA02_00487	glutamate dehydrogenase protein
CC089531.2	Phosphoribosyformylglycaminidine cyclotilagase	NprA_00324	K02033	Phosphoribosyformylglycaminidine cyclotilagase protein	NspA02_00488	Phosphoribosyformylglycaminidine cyclotilagase protein
CC089531.3	1-deoxy-D-xylulose-5-phosphate reductoisomerase	NprA_00325	K02034	1-deoxy-D-xylulose-5-phosphate reductoisomerase	NspA02_00489	1-deoxy-D-xylulose-5-phosphate reductoisomerase
CC089531.4	Amino acid ABC transporter, ATP-binding protein	NprA_00326	K02020	Glutamate transport ATP-binding protein GluA	NspA02_00490	Glutamate transport ATP-binding protein GluA
CC089531.5	ATP-binding cassette transporter	NprA_00327	K02021	Glutamate transport system ATP-binding protein	NspA02_00491	Glutamate transport system ATP-binding protein
CC089542.1	conserved hypothetical protein	NprA_00328	K02022	Glutamate transport system ATP-binding protein	NspA02_00492	Glutamate transport system ATP-binding protein
CC089542.2	conserved hypothetical protein	NprA_00329	K02023	Glutamate transport system ATP-binding protein	NspA02_00493	Glutamate transport system ATP-binding protein
CC089547.1	S-methylmethylethylene- <i>homocysteine</i> methyltransferase	NprA_00330	K02048	Methionine synthase protein	NspA02_00494	Methionine synthase protein
CC089547.2	Chlorophyll a/b binding protein	NprA_00331	K02049	Methionine synthase protein	NspA02_00495	Methionine synthase protein
CC089549.1	putative Surface antigen (D15)	NprA_00332	K02777	Oster membrane protein assembly factor BamA	NspA02_00496	Oster membrane protein assembly factor BamA
CC089550.1	putative Outer membrane chaperone SipA (OmpS)	NprA_00333	K02372	Oster membrane chaperone SipA	NspA02_00497	Oster membrane chaperone SipA
CC089550.2	1-deoxy-D-xylulose-5-phosphate reductoisomerase	NprA_00334	K02373	1-deoxy-D-xylulose-5-phosphate reductoisomerase FabZ	NspA02_00498	1-deoxy-D-xylulose-5-phosphate reductoisomerase FabZ
CC089552.1	Acyl-acyl-carrier-protein--UDP-N-acetylglucosamine O-acetyltransferase	NprA_00335	K00677	Any-acyl-carrier-protein-UDP-N-acetylglucosamine O-acetyltransferase	NspA02_00499	Any-acyl-carrier-protein-UDP-N-acetylglucosamine O-acetyltransferase
CC089553.1	conserved hypothetical protein	NprA_00336	K05820	Quinolinate synthase	NspA02_00500	Quinolinate synthase
CC089553.2	Lipid A-disaccharide synthase	NprA_00337	K00741	hypothetical protein	NspA02_00501	hypothetical protein
CC089553.3	putative Phosphoglycerate mutase, 2,3-bisphosphoglycerate-independent	NprA_00338	K02024	2,3-bisphosphoglycerate-independent phosphoglycerate mutase protein	NspA02_00502	2,3-bisphosphoglycerate-independent phosphoglycerate mutase protein
CC089570.1	conserved hypothetical protein	NprA_00339	K04753	Nitrogen regulatory protein P-II	NspA02_00503	Nitrogen regulatory protein P-II
CC089570.2	hypothetical protein NitroR_3400010	NprA_00340	K01915	Glutamine synthetase protein	NspA02_00504	Glutamine synthetase protein
CC089570.3	putative ABC transporter, regulatory protein PheU	NprA_00341	K01649	putative 2-isopropylmalate synthase	NspA02_00505	putative 2-isopropylmalate synthase
CC089570.4	exporter hypothetical protein	NprA_00342	K02055	Aspartate aminotransferase	NspA02_00506	Aspartate aminotransferase
CC089570.5	conserved hypothetical protein, permease subunit	NprA_00343	K02020	Permease-dependent transport system inner membrane component protein	NspA02_00507	Permease-dependent transport system inner membrane component protein
CC089570.6	putative amino acid ABC transporter, periplasmic binding protein	NprA_00344	K02056	Glutamine-binding periplasmic protein	NspA02_00508	Glutamine-binding periplasmic protein
CC089570.7	SpnB-like/putative ABC transporter, ATP-binding subunit	NprA_00345	K02057	Spermidine/polyamines import ATP-binding protein PutA	NspA02_00509	Spermidine/polyamines import ATP-binding protein PutA
CC089588.1	Phosphate-specific transport system, ATP-binding protein	NprA_00346	K02058	Phosphate import ATP-binding protein PutB	NspA02_00510	Phosphate import ATP-binding protein PutB
CC089588.2	exporter hypothetical protein	NprA_00347	K02059	hypothetical protein	NspA02_00511	hypothetical protein
CC089588.3	conserved hypothetical protein, permease subunit	NprA_00348	K02060	Ribonucleic acid permease	NspA02_00512	Ribonucleic acid permease
CC089588.4	putative ABC transporter, permease subunit	NprA_00349	K02061	Glutamine-binding periplasmic protein PutC	NspA02_00513	Glutamine-binding periplasmic protein PutC
CC089588.5	putative ABC transporter, permease subunit	NprA_00350	K02062	Glutamine-binding periplasmic protein PutD	NspA02_00514	Glutamine-binding periplasmic protein PutD
CC089588.6	putative ABC transporter, permease subunit	NprA_00351	K02063	Glutamine-binding periplasmic protein PutE	NspA02_00515	Glutamine-binding periplasmic protein PutE
CC089588.7	putative ABC transporter, permease subunit	NprA_00352	K02064	Glutamine-binding periplasmic protein PutF	NspA02_00516	Glutamine-binding periplasmic protein PutF
CC089588.8	putative ABC transporter, permease subunit	NprA_00353	K02065	Glutamine-binding periplasmic protein PutG	NspA02_00517	Glutamine-binding periplasmic protein PutG
CC089588.9	putative ABC transporter, permease subunit	NprA_00354	K02066	Glutamine-binding periplasmic protein PutH	NspA02_00518	Glutamine-binding periplasmic protein PutH
CC089588.10	putative ABC transporter, permease subunit	NprA_00355	K02067	Glutamine-binding periplasmic protein PutI	NspA02_00519	Glutamine-binding periplasmic protein PutI
CC089588.11	putative ABC transporter, permease subunit	NprA_00356	K02068	Glutamine-binding periplasmic protein PutJ	NspA02_00520	Glutamine-binding periplasmic protein PutJ
CC089588.12	putative ABC transporter, permease subunit	NprA_00357	K02069	Glutamine-binding periplasmic protein PutK	NspA02_00521	Glutamine-binding periplasmic protein PutK
CC089588.13	putative ABC transporter, permease subunit	NprA_00358	K02070	Glutamine-binding periplasmic protein PutL	NspA02_00522	Glutamine-binding periplasmic protein PutL
CC089588.14	putative ABC transporter, permease subunit	NprA_00359	K02071	Glutamine-binding periplasmic protein PutM	NspA02_00523	Glutamine-binding periplasmic protein PutM
CC089588.15	putative ABC transporter, permease subunit	NprA_00360	K02072	Thiosulfate sulfurtransferase DifE protein	NspA02_00524	Thiosulfate sulfurtransferase DifE protein
CC089588.16	putative ABC transporter, permease subunit	NprA_00361	K02073	putative nitrate reductase subunit gamma protein	NspA02_00525	putative nitrate reductase subunit gamma protein
CC089588.17	putative ABC transporter, permease subunit	NprA_00362	K00591	Thiosulfate sulfurtransferase DifF protein	NspA02_00526	Thiosulfate sulfurtransferase DifF protein
CC089588.18	putative ABC transporter, permease subunit	NprA_00363	K00592	Thiosulfate sulfurtransferase DifG protein	NspA02_00527	Thiosulfate sulfurtransferase DifG protein
CC089588.19	putative ABC transporter, permease subunit	NprA_00364	K02074	Thiosulfate sulfurtransferase DifH protein	NspA02_00528	Thiosulfate sulfurtransferase DifH protein
CC089588.20	putative ABC transporter, permease subunit	NprA_00365	K02075	Thiosulfate sulfurtransferase DifI protein	NspA02_00529	Thiosulfate sulfurtransferase DifI protein
CC089588.21	putative ABC transporter, permease subunit	NprA_00366	K02076	Thiosulfate sulfurtransferase DifJ protein	NspA02_00530	Thiosulfate sulfurtransferase DifJ protein
CC089588.22	putative ABC transporter, permease subunit	NprA_00367	K02077	Thiosulfate sulfurtransferase DifK protein	NspA02_00531	Thiosulfate sulfurtransferase DifK protein
CC089588.23	putative ABC transporter, permease subunit	NprA_00368	K02078	Thiosulfate sulfurtransferase DifL protein	NspA02_00532	Thiosulfate sulfurtransferase DifL protein
CC089588.24	putative ABC transporter, permease subunit	NprA_00369	K02079	Thiosulfate sulfurtransferase DifM protein	NspA02_00533	Thiosulfate sulfurtransferase DifM protein
CC089588.25	putative ABC transporter, permease subunit	NprA_00370	K02080	Thiosulfate sulfurtransferase DifN protein	NspA02_00534	Thiosulfate sulfurtransferase DifN protein
CC089588.26	putative ABC transporter, permease subunit	NprA_00371	K02081	Thiosulfate sulfurtransferase DifO protein	NspA02_00535	Thiosulfate sulfurtransferase DifO protein
CC089588.27	putative ABC transporter, permease subunit	NprA_00372	K02082	Thiosulfate sulfurtransferase DifP protein	NspA02_00536	Thiosulfate sulfurtransferase DifP protein
CC089588.28	putative ABC transporter, permease subunit	NprA_00373	K02083	Thiosulfate sulfurtransferase DifQ protein	NspA02_00537	Thiosulfate sulfurtransferase DifQ protein
CC089588.29	putative ABC transporter, permease subunit	NprA_00374	K02084	Thiosulfate sulfurtransferase DifR protein	NspA02_00538	Thiosulfate sulfurtransferase DifR protein
CC089588.30	putative ABC transporter, permease subunit	NprA_00375	K02085	Thiosulfate sulfurtransferase DifS protein	NspA02_00539	Thiosulfate sulfurtransferase DifS protein
CC089588.31	putative ABC transporter, permease subunit	NprA_00376	K02086	Thiosulfate sulfurtransferase DifT protein	NspA02_00540	Thiosulfate sulfurtransferase DifT protein
CC089588.32	putative ABC transporter, permease subunit	NprA_00377	K02087	Thiosulfate sulfurtransferase DifU protein	NspA02_00541	Thiosulfate sulfurtransferase DifU protein
CC089588.33	putative ABC transporter, permease subunit	NprA_00378	K02088	Thiosulfate sulfurtransferase DifV protein	NspA02_00542	Thiosulfate sulfurtransferase DifV protein
CC089588.34	putative ABC transporter, permease subunit	NprA_00379	K02089	Thiosulfate sulfurtransferase DifW protein	NspA02_00543	Thiosulfate sulfurtransferase DifW protein
CC089588.35	putative ABC transporter, permease subunit	NprA_00380	K02090	Thiosulfate sulfurtransferase DifX protein	NspA02_00544	Thiosulfate sulfurtransferase DifX protein
CC089588.36	putative ABC transporter, permease subunit	NprA_00381	K02091	Thiosulfate sulfurtransferase DifY protein	NspA02_00545	Thiosulfate sulfurtransferase DifY protein
CC089588.37	putative ABC transporter, permease subunit	NprA_00382	K02092	Thiosulfate sulfurtransferase DifZ protein	NspA02_00546	Thiosulfate sulfurtransferase DifZ protein
CC089588.38	putative ABC transporter, permease subunit	NprA_00383	K02093	Thiosulfate sulfurtransferase DifA protein	NspA02_00547	Thiosulfate sulfurtransferase DifA protein
CC089588.39	putative ABC transporter, permease subunit	NprA_00384	K02094	Thiosulfate sulfurtransferase DifB protein	NspA02_00548	Thiosulfate sulfurtransferase DifB protein
CC089588.40	putative ABC transporter, permease subunit	NprA_00385	K02095	Thiosulfate sulfurtransferase DifC protein	NspA02_00549	Thiosulfate sulfurtransferase DifC protein
CC089588.41	putative ABC transporter, permease subunit	NprA_00386	K02096	Thiosulfate sulfurtransferase DifD protein	NspA02_00550	Thiosulfate sulfurtransferase DifD protein
CC089588.42	putative ABC transporter, permease subunit	NprA_00387	K02097	Thiosulfate sulfurtransferase DifE protein	NspA02_00551	Thiosulfate sulfurtransferase DifE protein
CC089588.43	putative ABC transporter, permease subunit	NprA_00388	K02098	Thiosulfate sulfurtransferase DifF protein	NspA02_00552	Thiosulfate sulfurtransferase DifF protein
CC089588.44	putative ABC transporter, permease subunit	NprA_00389	K02099	Thiosulfate sulfurtransferase DifG protein	NspA02_00553	Thiosulfate sulfurtransferase DifG protein
CC089588.45	putative ABC transporter, permease subunit	NprA_00390	K02100	Thiosulfate sulfurtransferase DifH protein	NspA02_00554	Thiosulfate sulfurtransferase DifH protein
CC089588.46	putative ABC transporter, permease subunit	NprA_00391	K02101	Thiosulfate sulfurtransferase DifI protein	NspA02_00555	Thiosulfate sulfurtransferase DifI protein
CC089588.47	putative ABC transporter, permease subunit	NprA_00392	K02102	Thiosulfate sulfurtransferase DifJ protein	NspA02_00556	Thiosulfate sulfurtransferase DifJ protein
CC089588.48	putative ABC transporter, permease subunit	NprA_00393	K02103	Thiosulfate sulfurtransferase DifK protein	NspA02_00557	Thiosulfate sulfurtransferase DifK protein
CC089588.49	putative ABC transporter, permease subunit	NprA_00394	K02104	Thiosulfate sulfurtransferase DifL protein	NspA02_00558	Thiosulfate sulfurtransferase DifL protein
CC089588.50	putative ABC transporter, permease subunit	NprA_00395	K02105	Thiosulfate sulfurtransferase DifM protein	NspA02_00559	Thiosulfate sulfurtransferase DifM protein
CC089588.51	putative ABC transporter, permease subunit	NprA_00396	K02106	Thiosulfate sulfurtransferase DifN protein	NspA02_00560	Thiosulfate sulfurtransferase DifN protein
CC089588.52	putative ABC transporter, permease subunit	NprA_00397	K02107	Thiosulfate sulfurtransferase DifO protein	NspA02_00561	Thiosulfate sulfurtransferase DifO protein
CC089588.53	putative ABC transporter, permease subunit	NprA_00398	K02108	Thiosulfate sulfurtransferase DifP protein	NspA02_00562	Thiosulfate sulfurtransferase DifP protein
CC089588.54	putative ABC transporter, permease subunit	NprA_00399	K02109	Thiosulfate sulfurtransferase DifQ protein	NspA02_00563	Thiosulfate sulfurtransferase DifQ protein
CC089588.55	putative ABC transporter, permease subunit	NprA_00400	K02110	Thiosulfate sulfurtransferase DifR protein	NspA02_00564	Thiosulfate sulfurtransferase DifR protein
CC089588.56	putative ABC transporter, permease subunit	NprA_00401	K02111	Thiosulfate sulfurtransferase DifS protein	NspA02_00565	Thiosulfate sulfurtransferase DifS protein
CC089588.57	putative ABC transporter, permease subunit	NprA_00402	K02112	Thiosulfate sulfurtransferase DifT protein	NspA02_00566	Thiosulfate sulfurtransferase DifT protein
CC089588.58	putative ABC transporter, permease subunit	NprA_00403	K02113	Thiosulfate sulfurtransferase DifU protein	NspA02_00567	Thiosulfate sulfurtransferase DifU protein
CC089588.59	putative ABC transporter, permease subunit	NprA_00404	K02114	Thiosulfate sulfurtransferase DifV protein	NspA02_00568	Thiosulfate sulfurtransferase DifV protein
CC089588.60	putative ABC transporter, permease subunit	NprA_00405	K02115	Thiosulfate sulfurtransferase DifW protein	NspA02_00569	Thiosulfate sulfurtransferase DifW protein
CC089588.61	putative ABC transporter, permease subunit	NprA_00406	K02116	Thiosulfate sulfurtransferase DifX protein	NspA02_00570	Thiosulfate sulfurtransferase DifX protein
CC089588.62	putative ABC transporter, permease subunit	NprA_00407	K02117	Thiosulfate sulfurtransferase DifY protein	NspA02_00571	Thiosulfate sulfurtransferase DifY protein
CC089588.63	putative ABC transporter, permease subunit	NprA_00408	K02118	Thiosulfate sulfurtransferase DifZ protein	NspA02_00572	Thiosulfate sulfurtransferase DifZ protein
CC089588.64	putative ABC transporter, permease subunit	NprA_00409	K02119	Thiosulfate sulfurtransferase DifA protein	NspA02_00573	Thiosulfate sulfurtransferase DifA protein
CC089588.65	putative ABC transporter, permease subunit	NprA_00410	K02120	Thiosulfate sulfurtransferase DifB protein	NspA02_00574	Thiosulfate sulfurtransferase DifB protein
CC089588.66	putative ABC transporter, permease subunit	NprA_00411	K02121	Thiosulfate sulfurtransferase DifC protein	NspA02_00575	Thiosulfate sulfurtransferase DifC protein
CC089588.67	putative ABC transporter, permease subunit	NprA_00412	K02122	Thiosulfate sulfurtransferase DifD protein	NspA02_00576	Thiosulfate sulfurtransferase DifD protein
CC089588.68	putative ABC transporter, permease subunit	NprA_00413	K02123	Thiosulfate sulfurtransferase DifE protein	NspA02_00577	Thiosulfate sulfurtransferase DifE protein
CC089588.69	putative ABC transporter, permease subunit	NprA_00414	K02124	Thiosulfate sulfurtransferase DifF protein	NspA02_00578	Thiosulfate sulfurtransferase DifF protein
CC089588.70	putative ABC transporter, permease subunit	NprA_00415	K02125	Thiosulfate sulfurtransferase DifG protein	NspA02_00579	Thiosulfate sulfurtransferase DifG protein
CC089588.71	putative ABC transporter, permease subunit	NprA_00416	K02126	Thiosulfate sulfurtransferase DifH protein	NspA02_00580	Thiosulfate sulfurtransferase DifH protein
CC089588.72	putative ABC transporter, permease subunit	NprA_00417	K02127	Thiosulfate sulfurtransferase DifI protein	NspA02_00581	Thiosulfate sulfurtransferase DifI protein
CC089588.73	putative ABC transporter, permease subunit	NprA_00418	K02128	Thiosulfate sulfurtransferase DifJ protein	NspA02_00582	Thiosulfate sulfurtransferase DifJ protein
CC089588.74	putative ABC transporter, permease subunit	NprA_00419	K02129	Thiosulfate sulfurtransferase DifK protein	NspA02_00583	Thiosulfate sulfurtransferase DifK protein
CC089588.75	putative ABC transporter, permease					

CC000005.1	hypothetical protein NTGR_200006	NprA_00091	K03736	protein kinase cGMP-dependent	NspA02_00410	cyclic nucleotide-binding protein
CC000026.1	Type IV pilus biogenesis protein PIVC	NprA_00092	K02553	Type 4 fimbrial assembly protein PIVC	NspA02_00411	Type 4 fimbrial assembly protein PIVC
CC000027.1	putative Multi-sensor signal transduction histidine kinase	NprA_00093	K02482	Serine protein 2ks	NspA02_00412	Serine protein PIS
CC000028.1	conserved hypothetical protein	NprA_00094	K02483	conserved hypothetical protein kinase pks1	NspA02_00413	conserved hypothetical protein kinase pks1
CC000032.1	conserved hypothetical protein	NprA_00095	K01454	Desoxyuridine triphosphate deaminase	NspA02_01067	putative deoxyuridine triphosphate deaminase
CC000033.1	Hemolin-Yba family protein	NprA_00096	K06442	Putative RNA methyltransferase YbaC protein	NspA02_01068	Putative RNA methyltransferase YbaC protein
CC000033.1	Extracellular matrix metalloproteinase inhibitor	NprA_00097	K02554	bifunctional 5,5' methylene-tetrahydrofolate dehydrogenase/cyclohydrolase	NspA02_01069	bifunctional 5,5' methylene-tetrahydrofolate dehydrogenase/cyclohydrolase
CC000034.1	Transmembrane transporter, MEX subfamily, Pts family	NprA_00098	K02484	putative membrane transport regulator protein PIR	NspA02_01070	putative membrane transport regulator protein PIR
CC000045.1	Cyanide hydratase	NprA_00099	K01725	Cyanide hydratase protein	NspA02_00099	Cyanide hydratase protein
CC000047.1	Aminoglycoside transporter	NprA_00100	K03120	putative periplasmic inorganic ion transport protein	NspA02_00100	putative periplasmic inorganic ion transport protein
CC000047.1	putative ABC transporter protein	NprA_00101	K02555	Fimbrial assembly protein FbaB	NspA02_00101	Fimbrial assembly protein FbaB
CC000056.1	hypothetical protein NTGR_220012	NprA_00102	K02556	type IV pilus major pilin MtbA protein	NspA02_00423	pilin protein
CC000057.1	putative General secretion pathway protein F	NprA_00103	K02557	Type 4 fimbrial assembly protein PIVF	NspA02_00422	Type 4 fimbrial assembly protein PIVF
CC000058.1	General secretion pathway protein	NprA_00104	K02558	Regulator of secretion protein E	NspA02_00423	Regulator of secretion protein E
CC000063.1	Flagellar hook capping protein	NprA_00105	K02358	Regular hook capping protein FlgH	NspA02_00417	Regular hook capping protein
CC000063.1	Flagellar hook capping protein FlgI	NprA_00106	K02359	Flagellar hook capping protein FlgI	NspA02_00418	Flagellar hook capping protein FlgI
CC000074.1	hypothetical protein NTGR_220010	NprA_00107	K02559	hypothetical protein NtrB	NspA02_01663	Aerobic magnesium-protoporphyrin IX monomethyl ester oxidative cyclase protein
CC000075.1	Trans-4-enoyl-ACP reductase	NprA_00108	K02002	Enoyl-acyl-carrier-protein reductase NADH	NspA02_01169	Enoyl-acyl-carrier-protein reductase NADH
CC000075.1	[acyl-carrier-protein] acyl-carrier-protein) dehydratase	NprA_00109	K02560	Enoyl-acyl-carrier-protein acyl-carrier-protein dehydratase Flab2	NspA02_01170	Enoyl-acyl-carrier-protein acyl-carrier-protein dehydratase Flab2
CC000078.1	3-oxoacyl-[acyl-carrier-protein] reductase	NprA_00110	K02561	3-oxoacyl-acyl-carrier-protein reductase FlabG	NspA02_01165	3-oxoacyl-acyl-carrier-protein reductase FlabG
CC000091.1	putative phytane dehydrogenase	NprA_00111	K02985	phytane dehydrogenase protein	NspA02_01164	phytane dehydrogenase protein
CC000091.1	putative phytane dehydrogenase	NprA_00112	K02986	phytane dehydrogenase protein	NspA02_01165	phytane dehydrogenase protein
CC000091.1	putative phytane dehydrogenase	NprA_00113	K02987	Acyl carrier protein	NspA02_00724	Acyl carrier protein
CC000154.1	conserved hypothetical protein	NprA_00114	K02988	putative membrane protein synthase 2	NspA02_00725	putative membrane protein synthase 2
CC000155.1	hypothetical protein NTGR_250058	NprA_00115	K07735	transcriptional regulator protein	NspA02_00750	putative transcriptional regulator protein
CC000155.1	Transporter domain protein	NprA_00116	K06180	Ribosomal large subunit pseudouridine synthase C protein	NspA02_00749	Ribosomal large subunit pseudouridine synthase D protein
CC000158.1	putative tRNA (RNA) methyltransferase	NprA_00117	K02314	23S rRNA-methyltransferase RimbD protein	NspA02_00748	23S rRNA-methyltransferase RimbD protein
CC000193.1	membrane hypothetical protein	NprA_00118	K02940	putative membrane protein	NspA02_00745	putative methyltransferase protein
CC000193.2	Riboflavin biosynthesis protein RfbF	NprA_00119	K11759	Riboflavin biosynthesis protein TarB	NspA02_00744	hypothetical protein
CC000193.2	Riboflavin biosynthesis protein RfbF	NprA_00120	K02941	Riboflavin biosynthesis protein RfbF	NspA02_00743	Riboflavin biosynthesis protein RfbF
CC000194.1	Glyceraldehyde-3-phosphate dehydrogenase, alpha subunit	NprA_00121	K01837	hypothetical RNA ligase alpha subunit protein	NspA02_01500	hypothetical RNA ligase alpha subunit protein
CC000194.1	conserved hypothetical protein	NprA_00122	K02562	hypothetical protein	NspA02_01499	hypothetical protein
CC000194.1	conserved hypothetical protein	NprA_00123	K02563	hypothetical protein	NspA02_01501	hypothetical protein
CC000194.1	hypothetical protein NTGR_250058	NprA_00124	K02564	Receptor domain containing protein	NspA02_00732	Nu-2 exchanger-mitragin-beta2 protein
CC000194.1	Peptidase M23	NprA_00125	K02565	TrfA-DnaK family transcriptional regulator protein	NspA02_00731	Nu-2 exchanger-mitragin-beta2 protein
CC000194.1	Alpha/beta hydrolase fold protein	NprA_00126	K02566	putative nucleotide-nucleotide adenyltransferase protein	NspA02_00730	putative nucleotide-nucleotide adenyltransferase protein
CC000194.1	putative ABC transporter, ATPase and permease component	NprA_00127	K11686	Fimbrial assembly protein PIA	NspA02_00729	putative ABC transporter, ATPase and permease component
CC000194.1	putative bacterial type II and III secretion system protein	NprA_00128	K02567	Fimbrial assembly protein PIA'	NspA02_00728	putative bacterial type II and III secretion system protein
CC000194.1	3-hydroxy-3-methyl glutarate synthase	NprA_00129	K02575	3-hydroxyisobutyrate synthase protein	NspA02_00727	3-hydroxyisobutyrate synthase protein
CC000203.1	Aldehyde dehydrogenase, thermotolerant	NprA_00130	K02576	3-hydroxyisobutyrate synthase protein	NspA02_00726	3-hydroxyisobutyrate synthase protein
CC000203.1	Metallo-beta-lactamase domain protein	NprA_00131	K02577	hypothetical protein	NspA02_00725	hypothetical protein
CC000203.1	hypothetical protein NTGR_260007	NprA_00132	K02578	hypothetical protein	NspA02_00724	hypothetical protein
CC000203.1	exported hypothetical protein	NprA_00133	K02579	hypothetical protein	NspA02_00723	hypothetical protein
CC000205.1	Transcriptional regulator, TraD-DnaK family	NprA_00134	K02580	putative nucleotide-nucleotide adenyltransferase protein	NspA02_00722	putative nucleotide-nucleotide adenyltransferase protein
CC000207.1	putative nucleotide-nucleotide adenyltransferase	NprA_00135	K02581	Fimbrial protein	NspA02_00721	Fimbrial protein
CC000208.1	Tfp pilus assembly protein, major pilin	NprA_00136	K02582	putative pilin-containing protein	NspA02_00720	putative pilin-containing protein
CC000208.1	hypothetical protein	NprA_00137	K02583	hypothetical protein	NspA02_00719	hypothetical protein
CC000214.1	L-aspartate oxidase	NprA_00138	K02578	L-aspartate oxidase protein	NspA02_00718	L-aspartate oxidase protein
CC000214.1	2-ketoglutarate:iron oxidoreductase	NprA_00139	K02584	putative L-aspartate oxidase protein	NspA02_00717	putative L-aspartate oxidase protein
CC000214.1	putative Transferase, hexapeptide repeat protein	NprA_00140	K02585	putative L-aspartate oxidase protein	NspA02_00716	putative L-aspartate oxidase protein
CC000215.1	Purine nucleoside phosphorylase	NprA_00141	K02586	putative L-aspartate oxidase protein	NspA02_00715	putative L-aspartate oxidoreductase
CC000215.1	5'-nucleotidase	NprA_00142	K02587	putative L-aspartate oxidoreductase	NspA02_00714	putative L-aspartate oxidoreductase
CC000217.1	hypothetical protein NTGR_270017	NprA_00143	K02588	putative L-aspartate oxidoreductase	NspA02_00713	putative L-aspartate oxidoreductase
CC000218.1	3S ribosomal protein S20	NprA_00144	K02340	3S ribosomal protein S20	NspA02_00712	3S ribosomal protein S20
CC000218.1	putative DNA binding protein, delta subunit	NprA_00145	K02341	3S ribosomal protein S20	NspA02_00711	3S ribosomal protein S20
CC000218.1	exported hypothetical protein	NprA_00146	K02342	3S ribosomal protein S20	NspA02_00710	3S ribosomal protein S20
CC000312.1	3S ribosomal protein S11	NprA_00147	K02343	3S ribosomal protein S11	NspA02_00709	3S ribosomal protein S11
CC000313.1	3S ribosomal protein S4	NprA_00148	K02344	3S ribosomal protein S4	NspA02_00708	3S ribosomal protein S4
CC000313.1	3S ribosomal protein S17, modular protein	NprA_00149	K02345	3S ribosomal protein S17	NspA02_00707	3S ribosomal protein S17
CC000314.1	hypothetical protein NTGR_280052	NprA_00150	K02346	putative 3S ribosomal protein S17	NspA02_00706	putative 3S ribosomal protein S17
CC000314.1	hypothetical protein	NprA_00151	K02347	putative 3S ribosomal protein S17	NspA02_00705	putative 3S ribosomal protein S17
CC000314.1	Uncharacterized transporter, H_0888	NprA_00152	K03319	putative 3S ribosomal protein S17	NspA02_00704	putative 3S ribosomal protein S17
CC000318.1	hypothetical protein NTGR_280074	NprA_00153	K03085	putative Agg3 symporter Agg3 protein	NspA02_00687	putative Agg3 symporter Agg3 protein
CC000318.1	hypothetical protein	NprA_00154	K03086	putative Agg3 symporter Agg3 protein	NspA02_00686	putative Agg3 symporter Agg3 protein
CC000318.1	hypothetical protein NTGR_280074	NprA_00155	K02623	Histone lysine N-methyltransferase SETD7 protein	NspA02_01414	MORR variant protein
CC000341.1	conserved hypothetical protein	NprA_00156	K02628	Serine/threonine-protein kinase pkaC	NspA02_00696	Serine/threonine-protein kinase pkaC
CC000341.1	hypothetical protein	NprA_00157	K03077	putative PEPX-type 16 kDa peptidyl-prolyl cis-trans isomerase protein	NspA02_00645	putative PEPX-type 16 kDa peptidyl-prolyl cis-trans isomerase protein
CC000401.1	putative Na+/H+ exchanger	NprA_00158	K02629	Serine/threonine-protein kinase pkaC	NspA02_00646	Serine/threonine-protein kinase pkaC
CC000401.1	putative Na+/H+ exchanger	NprA_00159	K02630	putative Na+/H+ exchanger protein	NspA02_01269	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00160	K02631	putative Na+/H+ exchanger protein	NspA02_01268	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00161	K02632	putative Na+/H+ exchanger protein	NspA02_01267	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00162	K02633	putative Na+/H+ exchanger protein	NspA02_01266	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00163	K02634	putative Na+/H+ exchanger protein	NspA02_01265	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00164	K02635	putative Na+/H+ exchanger protein	NspA02_01264	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00165	K02636	putative Na+/H+ exchanger protein	NspA02_01263	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00166	K02637	putative Na+/H+ exchanger protein	NspA02_01262	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00167	K02638	putative Na+/H+ exchanger protein	NspA02_01261	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00168	K02639	putative Na+/H+ exchanger protein	NspA02_01260	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00169	K02640	putative Na+/H+ exchanger protein	NspA02_01259	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00170	K02641	putative Na+/H+ exchanger protein	NspA02_01258	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00171	K02642	putative Na+/H+ exchanger protein	NspA02_01257	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00172	K02643	putative Na+/H+ exchanger protein	NspA02_01256	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00173	K02644	putative Na+/H+ exchanger protein	NspA02_01255	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00174	K02645	putative Na+/H+ exchanger protein	NspA02_01254	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00175	K02646	putative Na+/H+ exchanger protein	NspA02_01253	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00176	K02647	putative Na+/H+ exchanger protein	NspA02_01252	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00177	K02648	putative Na+/H+ exchanger protein	NspA02_01251	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00178	K02649	putative Na+/H+ exchanger protein	NspA02_01250	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00179	K02650	putative Na+/H+ exchanger protein	NspA02_01249	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00180	K02651	putative Na+/H+ exchanger protein	NspA02_01248	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00181	K02652	putative Na+/H+ exchanger protein	NspA02_01247	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00182	K02653	putative Na+/H+ exchanger protein	NspA02_01246	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00183	K02654	putative Na+/H+ exchanger protein	NspA02_01245	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00184	K02655	putative Na+/H+ exchanger protein	NspA02_01244	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00185	K02656	putative Na+/H+ exchanger protein	NspA02_01243	putative Na+/H+ exchanger protein
CC000401.1	putative Na+/H+ exchanger	NprA_00186	K02657	putative Phosphate regulon transcriptional regulatory protein Phob	NspA02_01757	putative phosphate regulon transcriptional regulatory protein Phob
CC000511.1	putative ABC-type transport system, permease component	NprA_00187	K02658	Macrolide expert ATP-binding-permease protein MacB	NspA02_01024	Macrolide expert ATP-binding-permease protein MacB
CC000511.1	putative ABC-type transport system, ATPase component	NprA_00188	K02659	Macrolide expert ATP-binding-permease protein MacB	NspA02_01023	Macrolide expert ATP-binding-permease protein MacB
CC000511.1	Ankyrin	NprA_00189	K02660	putative ATP-binding-permease protein LutD	NspA02_01022	putative ATP-binding-permease protein LutD
CC000511.1	putative Glycosidase transferase family, helical bundle domain	NprA_00190	K02661	Ankyr-CotA thioesterase I protein	NspA02_01021	Ankyr-CotA thioesterase I protein
CC000511.1	putative phosphotransferase system protein	NprA_00191	K02662	anthranilate phosphoribosyltransferase and arabinose	NspA02_01020	anthranilate phosphoribosyltransferase and arabinose
CC000511.1	membrane hypothetical protein	NprA_00192	K02663	putative thioesterase domain containing protein	NspA02_01019	putative thioesterase domain containing protein
CC000511.1	hypothetical protein NTGR_310113	NprA_00193	K02664	putative CotA-thioesterase	NspA02_01018	putative CotA-thioesterase
CC000511.1	hypothetical protein, putative General secretion pathway protein A	NprA_00194	K02665	hypothetical protein	NspA02_01017	hypothetical protein
CC000511.1	hypothetical protein, putative General secretion pathway protein A	NprA_00195	K02666	rat secretion pathway protein A	NspA02_01016	rat secretion pathway protein A
CC000514.1	hypothetical protein NTGR_310304	NprA_00196	K02667	putative ATP synthase protein	NspA02_01015	putative ATP synthase protein
CC000514.1	hypothetical protein NTGR_310306	NprA_00197	K02668	putative ATP synthase protein	NspA02_01014	putative ATP synthase protein
CC000514.1	hypothetical protein NTGR_310307	NprA_00198	K02669	putative ATP synthase protein	NspA02_01013	putative ATP synthase protein
CC000514.1	hypothetical protein NTGR_310308	NprA_00199	K02670	putative ATP synthase protein	NspA02_01012	putative ATP synthase protein
CC000514.1	hypothetical protein NTGR_310309	NprA_00200	K02671	putative ATP synthase protein	NspA02_01011	putative ATP synthase protein
CC000514.1	hypothetical protein NTGR_310310	NprA_00201	K02672	putative ATP synthase protein	NspA02_01010	putative ATP synthase protein
CC000514.1	hypothetical protein NTGR_310311	NprA_00202	K02673	putative ATP synthase protein	NspA02_01009	putative ATP synthase protein
CC000514.1	hypothetical protein NTGR_310312	NprA_00203	K02674	putative ATP synthase protein	NspA02_01008	putative ATP synthase protein



CC091008.1	1-acyl-sn-glycerol 3-phosphate acyltransferase	Nprg_0396	K00655	1-acyl-sn-glycerol 3-phosphate acyltransferase protein	NspC2_00447	1-acyl-sn-glycerol 3-phosphate acyltransferase protein
CC091009.1	putative Endonuclease	Nprg_0397	K00656	endonuclease protein	NspC2_00446	endonuclease protein
CC091100.1	Metallo-beta-lactamase family protein	Nprg_0398	K00657	Hydroxacylglutathione hydrolase protein	NspC2_00445	Hydroxacylglutathione hydrolase protein
CC091101.1	conserved hypothetical protein	Nprg_0399	K02230	Glutathione S-transferase regulator protein	NspC2_00446	Glutathione S-transferase regulator protein
CC091102.1	conserved membrane hypothetical protein	Nprg_0400	K14645	Phosphate-sulfate permease Inorganic ion transport protein	NspC2_00443	Phosphate-sulfate permease Inorganic ion transport protein
CC091103.1	conserved hypothetical protein	Nprg_0401	K02507	hypothetical protein	NspC2_00441	hypothetical protein
CC091104.1	hypothetical protein	Nprg_0402	K02508	hypothetical protein delta-9-desaturase protein	NspC2_00440	hypothetical protein
CC091105.1	Two component transcriptional regulator, winged helix family	Nprg_0403	K02509	Drug sensory protein A	NspC2_00439	Sensor protein kinase Wall
CC091106.1	Glutamate dehydrogenase, NAD-specific	Nprg_0404	K02510	hypothetical protein Wall	NspC2_00438	hypothetical protein Wall
CC091107.1	putative amino acid-binding ACT	Nprg_0405	K02511	Glutamate dehydrogenase protein	NspA0_00051	Glutamate dehydrogenase protein
CC091108.1	putative hypothetical protein	Nprg_0406	K02512	formylmethionyl-tRNA-protein transferase	NspA0_00057	amino acid-binding ACT domain-containing regulatory protein
CC091109.1	Biosynthetic arginine decarboxylase	Nprg_0407	K02513	hypothetical protein	NspA0_00052	hypothetical protein
CC091110.1	Diaminopimelate decarboxylase	Nprg_0408	K02514	Biosynthetic arginine decarboxylase protein	NspA0_01000	Biosynthetic arginine decarboxylase protein
CC091111.1	putative Diaminopimelate decarboxylase	Nprg_0409	K02515	Diaminopimelate decarboxylase protein	NspA0_01001	Diaminopimelate decarboxylase protein
CC091112.1	putative Glutaredoxin-like protein	Nprg_0410	K02516	hypothetical protein diaminopimelate decarboxylase hydratase	NspA0_01002	hypothetical protein diaminopimelate decarboxylase hydratase
CC091113.1	Glutaredoxin-like protein	Nprg_0411	K02517	glutaredoxin protein	NspA0_01003	glutaredoxin protein
CC091114.1	putative Glutaredoxin-like protein, cytochrome b subunit	Nprg_0412	K02518	hypothetical protein	NspA0_01004	hypothetical protein
CC091115.1	putative Thio-disulfide oxidoreductase	Nprg_0413	K02519	Thio-disulfide oxidoreductase Reck protein	NspA0_01007	Thio-disulfide oxidoreductase Reck protein
CC091116.1	exported hypothetical protein	Nprg_0400	K02520	lipoprotein	NspA0_01008	Protein of unknown function with KPCGG motif domain containing protein
CC091117.1	putative membrane hypothetical protein	Nprg_0401	K02521	hypothetical protein	NspA0_01009	hypothetical protein
CC091118.1	hypothetical protein NITRG_570115	Nprg_0402	K02522	hypothetical protein	NspA0_01014	hypothetical protein
CC091119.1	hypothetical protein NITRG_570116	Nprg_0403	K02523	type II effector galactosidase protein	NspA0_01013	lacTose Rich repeat domain containing protein
CC091120.1	Alpha/beta hydrolase fold protein	Nprg_0404	K02524	hypothetical protein	NspA0_01014	hypothetical protein
CC091121.1	putative Geranylgeranyl reductase	Nprg_0405	K02525	geranylgeranyl reductase protein	NspC2_00567	putative coenzyme Q biosynthesis bifunctional protein CoABC
CC091122.1	putative Geranylgeranyl reductase	Nprg_0406	K02526	putative geranylgeranyl reductase protein Gsp	NspC2_00568	putative RNA thymidylylcarboxylydeneinosine biosynthesis protein Gsp
CC091123.1	Peptidase M22, glycoside hydrolase	Nprg_0407	K03472	Ribonuclease D protein	NspC2_00563	Ribonuclease D protein
CC091124.1	putative Ribonuclease D	Nprg_0408	K03473	hypothetical protein	NspC2_00564	hypothetical protein
CC091125.1	conserved hypothetical protein	Nprg_0409	K03572	hypothetical protein	NspC2_00565	DNA mismatch repair protein MutS
CC091126.1	DNA mismatch repair protein mutL	Nprg_0410	K03573	DNA mismatch repair protein MutL	NspC2_00555	transcriptional regulator protein
CC091127.1	Putative helle-tum-helle motif protein (modular protein)	Nprg_0411	K03574	XRE family transcriptional regulator protein	NspC2_00556	hypothetical protein
CC091128.1	conserved hypothetical protein	Nprg_0412	K03575	hypothetical protein	NspC2_00557	hypothetical protein
CC091129.1	Aspartate 1-decarboxylase	Nprg_0409	K03579	Aspartate 1-decarboxylase protein	NspC2_00553	Aspartate 1-decarboxylase protein
CC091130.1	Putative phosphotransfurylase	Nprg_0410	K03580	Phosphotransfurylase	NspC2_00554	Phosphotransfurylase
CC091131.1	3-methyl-2-hydroxy-3-hydroxypropanoyltransferase	Nprg_0411	K03581	3-methyl-2-hydroxy-3-hydroxypropanoyltransferase protein	NspC2_00555	3-methyl-2-hydroxy-3-hydroxypropanoyltransferase protein
CC091132.1	putative decarboxylase kinase	Nprg_0412	K03582	putative decarboxylase kinase protein	NspC2_00556	putative thymidine kinase protein
CC091133.1	putative decarboxylase kinase regulator	Nprg_0403	K03583	Regulation of thymidine kinase protein	NspC2_00557	hypothetical protein
CC091134.1	putative Histidine kinase	Nprg_0404	K13500	Sporulation kinase C protein	NspC2_00558	hypothetical protein
CC091135.1	Glycogen synthase	Nprg_0405	K13501	Glycogen synthase protein	NspC2_00559	Glycogen synthase
CC091136.1	putative Glycogen synthase	Nprg_0406	K13502	Glycogen synthase protein	NspC2_00560	Glycogen synthase
CC091137.1	putative Glycogen synthase	Nprg_0407	K13503	Glycogen synthase protein	NspC2_00561	Glycogen synthase
CC091138.1	Coenzyme A biosynthesis bifunctional protein CoABC (Includes: Phosphopantothenoylcysteine decarboxylase; Phosphopantothenoylcysteine ligase)	Nprg_0408	K03572	Coenzyme A biosynthesis bifunctional protein CoABC	NspC2_00562	Coenzyme A biosynthesis bifunctional protein CoABC
CC091139.1	conserved exported hypothetical protein, Sulfatase-modifying family-like	Nprg_0409	K03573	Sulfatase-modifying protein	NspC2_00563	Sulfatase-modifying protein
CC091140.1	putative Sac-independent protein translocase	Nprg_0410	K03574	Sac-independent protein translocase protein Tata	NspC2_00556	Sac-independent protein translocase protein Tata
CC091141.1	conserved hypothetical protein	Nprg_0400	K03575	hypothetical protein	NspC2_00557	hypothetical protein
CC091142.1	NAD+-quione oxidoreductase, subunit M	Nprg_0401	K03576	NAD+-quione oxidoreductase subunit M protein	NspC2_00558	NAD+-quione oxidoreductase subunit M protein
CC091143.1	NAD+-quione oxidoreductase, subunit L	Nprg_0402	K03577	NAD+-quione oxidoreductase subunit L protein	NspC2_00559	NAD+-quione oxidoreductase subunit L protein
CC091144.1	NAD+-quione oxidoreductase, subunit K	Nprg_0403	K03578	NAD+-quione oxidoreductase subunit K protein	NspC2_00560	NAD+-quione oxidoreductase subunit K protein
CC091145.1	NAD+-quione oxidoreductase, subunit J	Nprg_0404	K03579	NAD+-quione oxidoreductase subunit J protein	NspC2_00561	NAD+-quione oxidoreductase subunit J protein
CC091146.1	NAD+-quione oxidoreductase, subunit I	Nprg_0405	K03580	NAD+-quione oxidoreductase subunit I protein	NspC2_00562	NAD+-quione oxidoreductase subunit I protein
CC091147.1	NAD+-quione oxidoreductase, subunit H	Nprg_0406	K03581	NAD+-quione oxidoreductase subunit H protein	NspC2_00563	NAD+-quione oxidoreductase subunit H protein
CC091148.1	NAD+-quione oxidoreductase, subunit G	Nprg_0407	K03582	NAD+-quione oxidoreductase subunit G protein	NspC2_00564	NAD+-quione oxidoreductase subunit G protein
CC091149.1	NAD+-quione oxidoreductase, subunit F	Nprg_0408	K03583	NAD+-quione oxidoreductase subunit F protein	NspC2_00565	NAD+-quione oxidoreductase subunit F protein
CC091150.1	NAD+-quione oxidoreductase, subunit E	Nprg_0409	K03584	NAD+-quione oxidoreductase subunit E protein	NspC2_00566	NAD+-quione oxidoreductase subunit E protein
CC091151.1	NAD+-quione oxidoreductase, subunit D	Nprg_0410	K03585	NAD+-quione oxidoreductase subunit D protein	NspC2_00567	NAD+-quione oxidoreductase subunit D protein
CC091152.1	NAD+-quione oxidoreductase, subunit C	Nprg_0400	K03586	NAD+-quione oxidoreductase subunit C protein	NspC2_00568	NAD+-quione oxidoreductase subunit C protein
CC091153.1	NAD+-quione oxidoreductase, subunit B	Nprg_0401	K03587	NAD+-quione oxidoreductase subunit B protein	NspC2_00569	NAD+-quione oxidoreductase subunit B protein
CC091154.1	NAD+-quione oxidoreductase, subunit A	Nprg_0402	K03588	NAD+-quione oxidoreductase subunit A protein	NspC2_00570	NAD+-quione oxidoreductase subunit A protein
CC091155.1	FO synthase subunit 2 protein	Nprg_0418	K13620	FO synthase subunit 2 protein	NspA0_00019	FO synthase subunit 2 protein
CC091156.1	Alanyl-tRNA synthetase	Nprg_0419	K03572	Alanyl-tRNA synthetase	NspC2_01228	Alanyl-tRNA ligase protein
CC091157.1	Arabinose 5-phosphate isomerase	Nprg_0420	K03573	Arabinose 5-phosphate isomerase Kdo2P protein	NspC2_01227	Arabinose 5-phosphate isomerase Kdo2P protein
CC091158.1	Arabinose 5-phosphate isomerase	Nprg_0421	K03574	Arabinose 5-phosphate isomerase Kdo2P protein	NspC2_01228	Arabinose 5-phosphate isomerase Kdo2P protein
CC091159.1	Methionyl-tRNA synthetase	Nprg_0422	K03575	Methionyl-tRNA synthetase	NspA0_02651	Phosphotransferase Yael protein
CC091160.1	Cold shock protein Cuf	Nprg_0423	K03704	Cold shock-like protein Cuf	NspA0_00407	Cold shock-like protein Cuf
CC091161.1	Cold shock protein Cuf	Nprg_0424	K03705	Regulation of ribosomal protein S1	NspA0_02652	Regulation of ribosomal protein S1
CC091162.1	hypothetical protein	Nprg_0425	K03706	hypothetical protein	NspA0_02653	hypothetical protein
CC091163.1	hypothetical protein	Nprg_0426	K15256	RNA methyltransferase protein	NspA0_02654	RNA methyltransferase protein
CC091164.1	hypothetical protein	Nprg_0427	K15257	hypothetical protein	NspA0_02655	hypothetical protein
CC091165.1	hypothetical protein	Nprg_0428	K15258	hypothetical protein	NspA0_02656	hypothetical protein
CC091166.1	hypothetical protein	Nprg_0429	K15259	hypothetical protein	NspA0_02657	Organic solvent tolerance protein
CC091167.1	hypothetical protein	Nprg_0430	K15754	Fattyacylglycerate synthase protein	NspA0_02658	Fattyacylglycerate synthase protein
CC091168.1	hypothetical protein	Nprg_0431	K15755	hypothetical protein	NspA0_02659	hypothetical protein
CC091169.1	hypothetical protein	Nprg_0432	K15756	hypothetical protein	NspA0_02660	hypothetical protein
CC091170.1	hypothetical protein	Nprg_0433	K15757	hypothetical protein	NspA0_02661	Inosine-5'-monophosphate dehydrogenase
CC091171.1	hypothetical protein	Nprg_0434	K15758	hypothetical protein	NspA0_02662	Inosine-5'-monophosphate dehydrogenase
CC091172.1	hypothetical protein	Nprg_0435	K15759	hypothetical protein	NspA0_02663	Inosine-5'-monophosphate dehydrogenase
CC091173.1	hypothetical protein	Nprg_0436	K15760	hypothetical protein	NspA0_02664	Inosine-5'-monophosphate dehydrogenase
CC091174.1	hypothetical protein	Nprg_0437	K15761	hypothetical protein	NspA0_02665	Inosine-5'-monophosphate dehydrogenase
CC091175.1	hypothetical protein	Nprg_0438	K15762	hypothetical protein	NspA0_02666	Inosine-5'-monophosphate dehydrogenase
CC091176.1	hypothetical protein	Nprg_0439	K15763	hypothetical protein	NspA0_02667	Inosine-5'-monophosphate dehydrogenase
CC091177.1	hypothetical protein	Nprg_0440	K15764	hypothetical protein	NspA0_02668	Inosine-5'-monophosphate dehydrogenase
CC091178.1	hypothetical protein	Nprg_0441	K15765	hypothetical protein	NspA0_02669	Inosine-5'-monophosphate dehydrogenase
CC091179.1	hypothetical protein	Nprg_0442	K15766	hypothetical protein	NspA0_02670	Inosine-5'-monophosphate dehydrogenase
CC091180.1	hypothetical protein	Nprg_0443	K15767	hypothetical protein	NspA0_02671	Inosine-5'-monophosphate NADPH small chain protein
CC091181.1	hypothetical protein	Nprg_0444	K15768	Chaperone protein DnaJ	NspA0_02672	hypothetical protein
CC091182.1	hypothetical protein	Nprg_0445	K15769	Chaperone protein DnaK	NspA0_02673	Chaperone protein DnaK
CC091183.1	hypothetical protein	Nprg_0446	K15770	Chaperone protein DnaK	NspA0_02674	Chaperone protein DnaK
CC091184.1	hypothetical protein	Nprg_0447	K15771	Chaperone protein DnaK	NspA0_02675	Chaperone protein DnaK
CC091185.1	hypothetical protein	Nprg_0448	K15772	Chaperone protein DnaK	NspA0_02676	Chaperone protein DnaK
CC091186.1	hypothetical protein	Nprg_0449	K15773	Chaperone protein DnaK	NspA0_02677	Chaperone protein DnaK
CC091187.1	hypothetical protein	Nprg_0450	K15774	Chaperone protein DnaK	NspA0_02678	Chaperone protein DnaK
CC091188.1	hypothetical protein	Nprg_0451	K15775	Chaperone protein DnaK	NspA0_02679	Chaperone protein DnaK
CC091189.1	hypothetical protein	Nprg_0452	K15776	Chaperone protein DnaK	NspA0_02680	Chaperone protein DnaK
CC091190.1	hypothetical protein	Nprg_0453	K15777	Chaperone protein DnaK	NspA0_02681	Chaperone protein DnaK
CC091191.1	hypothetical protein	Nprg_0454	K15778	Chaperone protein DnaK	NspA0_02682	Chaperone protein DnaK
CC091192.1	hypothetical protein	Nprg_0455	K15779	Chaperone protein DnaK	NspA0_02683	Chaperone protein DnaK
CC091193.1	hypothetical protein	Nprg_0456	K15780	Chaperone protein DnaK	NspA0_02684	Chaperone protein DnaK
CC091194.1	hypothetical protein	Nprg_0457	K15781	Chaperone protein DnaK	NspA0_02685	Chaperone protein DnaK
CC091195.1	hypothetical protein	Nprg_0458	K15782	Chaperone protein DnaK	NspA0_02686	Chaperone protein DnaK
CC091196.1	hypothetical protein	Nprg_0459	K15783	Chaperone protein DnaK	NspA0_02687	Chaperone protein DnaK
CC091197.1	hypothetical protein	Nprg_0460	K15784	Chaperone protein DnaK	NspA0_02688	Chaperone protein DnaK
CC091198.1	hypothetical protein	Nprg_0461	K15785	Chaperone protein DnaK	NspA0_02689	Chaperone protein DnaK
CC091199.1	hypothetical protein	Nprg_0462	K15786	Chaperone protein DnaK	NspA0_02690	Chaperone protein DnaK
CC091200.1	hypothetical protein	Nprg_0463	K15787	Chaperone protein DnaK	NspA0_02691	Chaperone protein DnaK
CC091201.1	hypothetical protein	Nprg_0464	K15788	Chaperone protein DnaK	NspA0_02692	Chaperone protein DnaK
CC091202.1	hypothetical protein	Nprg_0465	K15789	Chaperone protein DnaK	NspA0_02693	Chaperone protein DnaK
CC091203.1	hypothetical protein	Nprg_0466	K15790	Chaperone protein DnaK	NspA0_02694	Chaperone protein DnaK
CC091204.1	hypothetical protein	Nprg_0467	K15791	Chaperone protein DnaK	NspA0_02695	Chaperone protein DnaK
CC091205.1	hypothetical protein	Nprg_0468	K15792	Chaperone protein DnaK	NspA0_02696	Chaperone protein DnaK
CC091206.1	hypothetical protein	Nprg_0469	K15793	Chaperone protein DnaK	NspA0_02697	Chaperone protein DnaK
CC091207.1	hypothetical protein	Nprg_0470	K15794	Chaperone protein DnaK	NspA0_02698	Chaperone protein DnaK
CC091208.1	hypothetical protein	Nprg_0471	K15795	Chaperone protein DnaK	NspA0_02699	Chaperone protein DnaK
CC091209.1	hypothetical protein	Nprg_0472	K15796	Chaperone protein DnaK	NspA0_02700	Chaperone protein DnaK
CC091210.1	hypothetical protein	Nprg_0473	K15797	Chaperone protein DnaK	NspA0_02701	Chaperone protein DnaK
CC091211.1	hypothetical protein	Nprg_0474	K15798	Chaperone protein DnaK	NspA0_02702	Chaperone protein DnaK
CC091212.1	Peptidase M23	Nprg_0475	K15799	hypothetical protein	NspA0_02703	hypothetical protein
CC091213.1	hypothetical protein	Nprg_0476	K15800	hypothetical protein	NspA0_02704	hypothetical protein
CC091214.1	hypothetical protein	Nprg_0477	K15801	hypothetical protein	NspA0_02705	hypothetical protein
CC091215.1	hypothetical protein	Nprg_0478	K15802	hypothetical protein	NspA0_02706	hypothetical protein
CC091216.1	hypothetical protein	Nprg_0479	K15803	hypothetical protein	NspA0_02707	hypothetical protein
CC091217.1	hypothetical protein	Nprg_0480	K15804	hypothetical protein	NspA0_02708	hypothetical protein
CC091218.1	hypothetical protein	Nprg_0481	K15805</			

CC091349.1	putative Similar to lipoprotein releasing system transmembrane protein	NprA_02331	Macrolide export ATP-binding permease protein MacB	NspC2_00883	Macrolide export ATP-binding permease protein MacB
CC091350.1	putative Related to lipoprotein releasing system transmembrane protein	NprA_02332	Ippoprotein releasing system transmembrane protein	NspC2_00582	Ippoprotein releasing system transmembrane protein
CC091351.2	putative sigma E regulatory protein, Mucl/Rub	NprA_02334	putative sigma E regulatory protein Mucl-Rub	NspA02_00189	sigma E regulatory protein Mucl-Rub
CC091352.1	hypothetical protein	NprA_02335	hypothetical protein	NspA02_00190	hypothetical protein
CC091353.1	ATPase, AAA family; putative Methyl-alkyl-dehydrogenase regulatory protein Moaf	NprA_02338	Gas vesicle protein	NspA02_00183	Gas vesicle protein Gvph
CC091354.1	Phage SP01 DNA polymerase-ase-related protein	NprA_02339	uracil-DNA glycosylase protein	NspA02_00182	uracil-DNA glycosylase protein
CC091354.2	Arginyl-tRNA synthetase	NprA_02340	Arginine-tRNA ligase protein	NspA02_00181	Arginine-tRNA ligase protein
CC091354.3	hypothetical protein	NprA_02341	hypothetical protein	NspA02_00182	hypothetical protein
CC091361.1	putative esterase YhfT	NprA_02344	Putative esterase YhfT protein	NspA02_00173	alpha-beta hydrolase fold protein
CC091362.1	conserved membrane hypothetical protein	NprA_02346	hypothetical protein	NspA02_00176	hypothetical protein
CC091363.1	hypothetical protein	NprA_02347	hypothetical protein	NspA02_00177	hypothetical protein
CC091364.1	hypothetical protein Nitro, 640111	NprA_02347	GAL4 protein 3	NspA02_00174	GAL4 protein 3
CC091365.1	Phosphotriose phosphatase	NprA_02348	phosphotriose phosphatase protein	NspA02_00173	phosphotriose phosphatase protein
CC091366.1	putative NADH-alkyl-dehydrogenase	NprA_02349	putative NADH-alkyl-dehydrogenase NAD-Lysine forming protein	NspA02_00172	putative NADH-alkyl-dehydrogenase NAD-Lysine forming protein
CC091367.1	conserved hypothetical protein	NprA_02350	putative metal-binding protein	NspA02_00171	putative metal-binding protein
CC091368.1	hypothetical protein	NprA_02351	hypothetical protein	NspA02_00170	hypothetical protein
CC091369.1	putative Ribosomal RNA small subunit methyltransferase E	NprA_02353	Ribosomal RNA small subunit methyltransferase E protein	NspA02_00169	Ribosomal RNA small subunit methyltransferase E protein
CC091370.1	Separation and condensation protein A	NprA_02355	Segregation protein	NspA02_00168	Segregation protein
CC091371.1	conserved exported hypothetical protein	NprA_02356	hypothetical protein	NspA02_00167	hypothetical protein
CC091380.1	CIPV protein	NprA_02357	hypothetical protein	NspA02_00166	hypothetical protein
CC091382.1	CIPV domain-containing membrane protein	NprA_02359	ABC-type oligopeptide/dipeptide transport system, efflux component	NspA02_00165	ABC-type oligopeptide/dipeptide transport system, efflux component
CC091383.1	putative Permease, Yggf/Yggf family	NprA_02360	hypothetical protein	NspA02_00164	hypothetical protein
CC091384.1	UspA domain	NprA_02361	hypothetical protein	NspA02_00163	hypothetical protein
CC091386.1	Proline dehydrogenase	NprA_02366	UspA-like membrane protein Lpf	NspA02_00162	UspA-like membrane protein Lpf
CC091387.1	ABC-type oligopeptide/dipeptide transport system, permease component	NprA_02367	UspA-like membrane protein Lpf	NspA02_00161	UspA-like membrane protein Lpf
CC091389.1	putative ABC-type oligopeptide/dipeptide transport system, permease component	NprA_02372	ABC transporter permease protein Yggf	NspA02_01939	Inner membrane ABC transporter permease protein Yggf
CC091390.1	putative ABC-type oligopeptide/dipeptide transport system, periplasmic binding component	NprA_02373	ABC transporter permease protein Yggf	NspA02_01940	Inner membrane ABC transporter permease protein Yggf
CC091391.1	A-type ABC-type oligopeptide/dipeptide transport system, periplasmic binding component	NprA_02374	Trigger factor	NspA02_01941	Trigger factor
CC091394.1	putative Trigger Factor	NprA_02376	Trigger factor	NspA02_01942	Trigger factor
CC091395.1	putative RnfB-like type II restriction endonuclease	NprA_02377	hypothetical protein	NspA02_01943	hypothetical protein
CC091396.1	hypothetical protein Nitro, 650221	NprA_02378	Endonuclease V protein	NspA02_01944	Endonuclease V protein
CC091398.1	Endonuclease V	NprA_02379	hypothetical protein	NspA02_01945	hypothetical protein
CC091399.1	Nitrogen-regulatory phosphotransferase	NprA_02380	Phosphotriose-phosphate phosphotransferase	NspA02_01946	Phosphotriose-phosphate phosphotransferase
CC091400.1	Phosphotriose-phosphate phosphotransferase	NprA_02381	Nitrogen regulatory protein	NspA02_01947	Nitrogen regulatory protein
CC091401.1	PTS IIA-like Nitrogen regulatory protein	NprA_02382	hypothetical protein	NspA02_01948	hypothetical protein
CC091402.1	putative ABC-type oligopeptide/dipeptide transport system, permease component	NprA_02383	hypothetical protein	NspA02_01949	hypothetical protein
CC091403.1	RNA polymerase, sigma-S4 factor (sigma S)	NprA_02384	RNA polymerase sigma-S4 factor protein	NspA02_01950	RNA polymerase sigma-S4 factor protein
CC091404.1	Lipoquinolochinidate export system, ATP-binding protein Lpb	NprA_02385	Lipoquinolochinidate export system ATP-binding protein Lpb	NspA02_01951	Lipoquinolochinidate export system ATP-binding protein Lpb
CC091405.1	UspA domain	NprA_02386	hypothetical protein	NspA02_01952	hypothetical protein
CC091406.1	Hypothetical protein Nitro, 660002	NprA_02388	Bifunctional NADH-hydride reductase enzyme Ner protein	NspC2_01088	Bifunctional NADH-hydride reductase enzyme Ner protein
CC091411.1	Glycogen phosphorylase	NprA_02389	Glycogen phosphorylase	NspC2_01089	Glycogen phosphorylase
CC091412.1	UTP-glucose-1-phosphate uridylyltransferase	NprA_02390	UTP-glucose-1-phosphate uridylyltransferase protein	NspC2_01090	UTP-glucose-1-phosphate uridylyltransferase protein
CC091413.1	putative Uridylate kinase	NprA_02391	hypothetical protein	NspC2_01091	hypothetical protein
CC091414.1	exported hypothetical protein	NprA_02392	hypothetical protein	NspC2_01092	hypothetical protein
CC091417.1	fragment of PLP-dependent aminoacidotransferase (part 2), partial	NprA_02394	hypothetical protein	NspC2_01093	putative aminoacidotransferase PLP protein
CC091418.1	hypothetical protein	NprA_02395	hypothetical protein	NspC2_01094	hypothetical protein
CC091419.1	Threonine synthase 1, chloroplastic	NprA_02396	Threonine synthase	NspC2_01095	Threonine synthase
CC091420.1	Threonine-diol dehydrogenase	NprA_02397	Threonine-diol dehydrogenase	NspC2_01096	Threonine-diol dehydrogenase
CC091421.1	UvoX-like nucleotide reductase	NprA_02398	UvoX-like nucleotide reductase	NspC2_01097	UvoX-like nucleotide reductase
CC091423.1	Molybdopterin converting factor, large subunit	NprA_02399	Molybdopterin converting factor, large subunit	NspC2_01098	Molybdopterin converting factor, large subunit
CC091426.1	Molybdopterin cofactor biosynthesis protein C	NprA_02400	Molybdopterin monophosphate synthase	NspA02_00587	Cyclic pyranose monophosphate synthase
CC091427.1	hypothetical protein Nitro, 680012	NprA_02410	Molybdopterin trinucleotide FoldI protein	NspA02_00581	Molybdopterin trinucleotide FoldI protein
CC091428.1	hypothetical protein	NprA_02411	hypothetical protein	NspA02_00582	hypothetical protein
CC091429.1	putative Protease III	NprA_02415	Cysteine PQO synthase protein F	NspA02_00577	Cysteine PQO synthase protein F
CC091430.1	hypothetical protein Nitro, 690004	NprA_02422	H7-type transcription regulator ZntB protein	NspC2_01178	Mercier resistance operon regulatory protein
CC091431.1	hypothetical protein	NprA_02423	hypothetical protein	NspC2_01179	hypothetical protein
CC091434.1	putative GAF sensor protein	NprA_02424	hypothetical protein	NspC2_01180	Nitrogen assimilation regulatory protein
CC091447.1	putative Flagellar hook-based body complex protein FlcE	NprA_02428	Type I fimbriae expression regulatory protein PilC	NspC2_01181	Type I fimbriae expression regulatory protein
CC091448.1	putative hypothetical protein	NprA_02431	Flagellar hook-based body complex protein FlE	NspC2_01182	Flagellar hook-based body complex protein FlE
CC091449.1	hypothetical protein	NprA_02432	putative metal-binding protein SmoB	NspC2_01009	putative metal-binding protein SmoB
CC091450.1	hypothetical protein Nitro, 700011	NprA_02434	putative 3-phosphoglycerate-3-phosphate lyase	NspA02_00596	hypothetical protein
CC091451.1	conserved exported hypothetical protein	NprA_02435	hypothetical protein	NspA02_00603	inner membrane protein YcsS
CC091454.1	N-carbamoylpicolinic amide amidase	NprA_02436	hypothetical protein	NspA02_00607	N-carbamoylpicolinic amide amidase
CC091455.1	hypothetical protein	NprA_02437	hypothetical protein	NspA02_00608	hypothetical protein
CC091456.1	putative Uridylate kinase	NprA_02438	hypothetical protein	NspA02_00609	hypothetical protein
CC091457.1	hypothetical protein	NprA_02439	hypothetical protein	NspA02_00610	hypothetical protein
CC091458.1	hypothetical protein	NprA_02440	AAA ATPase	NspA02_00611	AAA ATPase
CC091459.1	putative Uridylate kinase	NprA_02441	uridylate kinase	NspA02_00612	uridylate kinase
CC091460.1	hypothetical protein	NprA_02442	hypothetical protein	NspA02_00613	hypothetical protein
CC091461.1	hypothetical protein	NprA_02443	hypothetical protein	NspA02_00614	hypothetical protein
CC091462.1	hypothetical protein	NprA_02444	hypothetical protein	NspA02_00615	hypothetical protein
CC091463.1	hypothetical protein	NprA_02445	hypothetical protein	NspA02_00616	hypothetical protein
CC091464.1	hypothetical protein	NprA_02446	AAA ATPase	NspA02_00617	AAA ATPase
CC091465.1	hypothetical protein	NprA_02447	AAA ATPase	NspA02_00618	AAA ATPase
CC091466.1	hypothetical protein	NprA_02448	AAA ATPase	NspA02_00619	AAA ATPase
CC091467.1	hypothetical protein	NprA_02449	AAA ATPase	NspA02_00620	AAA ATPase
CC091468.1	hypothetical protein	NprA_02450	AAA ATPase	NspA02_00621	AAA ATPase
CC091469.1	hypothetical protein	NprA_02451	AAA ATPase	NspA02_00622	AAA ATPase
CC091470.1	hypothetical protein	NprA_02452	AAA ATPase	NspA02_00623	AAA ATPase
CC091471.1	hypothetical protein	NprA_02453	AAA ATPase	NspA02_00624	AAA ATPase
CC091472.1	hypothetical protein	NprA_02454	AAA ATPase	NspA02_00625	AAA ATPase
CC091473.1	hypothetical protein	NprA_02455	AAA ATPase	NspA02_00626	AAA ATPase
CC091474.1	hypothetical protein	NprA_02456	AAA ATPase	NspA02_00627	AAA ATPase
CC091475.1	hypothetical protein	NprA_02457	AAA ATPase	NspA02_00628	AAA ATPase
CC091476.1	hypothetical protein	NprA_02458	AAA ATPase	NspA02_00629	AAA ATPase
CC091477.1	hypothetical protein	NprA_02459	AAA ATPase	NspA02_00630	AAA ATPase
CC091478.1	hypothetical protein	NprA_02460	AAA ATPase	NspA02_00631	AAA ATPase
CC091479.1	hypothetical protein	NprA_02461	AAA ATPase	NspA02_00632	AAA ATPase
CC091480.1	hypothetical protein	NprA_02462	AAA ATPase	NspA02_00633	AAA ATPase
CC091481.1	hypothetical protein	NprA_02463	AAA ATPase	NspA02_00634	AAA ATPase
CC091482.1	hypothetical protein	NprA_02464	AAA ATPase	NspA02_00635	AAA ATPase
CC091483.1	hypothetical protein	NprA_02465	AAA ATPase	NspA02_00636	AAA ATPase
CC091484.1	hypothetical protein	NprA_02466	AAA ATPase	NspA02_00637	AAA ATPase
CC091485.1	hypothetical protein	NprA_02467	AAA ATPase	NspA02_00638	AAA ATPase
CC091486.1	hypothetical protein	NprA_02468	AAA ATPase	NspA02_00639	AAA ATPase
CC091487.1	hypothetical protein	NprA_02469	AAA ATPase	NspA02_00640	AAA ATPase
CC091488.1	hypothetical protein	NprA_02470	AAA ATPase	NspA02_00641	AAA ATPase
CC091489.1	hypothetical protein	NprA_02471	AAA ATPase	NspA02_00642	AAA ATPase
CC091490.1	hypothetical protein	NprA_02472	AAA ATPase	NspA02_00643	AAA ATPase
CC091491.1	hypothetical protein	NprA_02473	AAA ATPase	NspA02_00644	AAA ATPase
CC091492.1	hypothetical protein	NprA_02474	AAA ATPase	NspA02_00645	AAA ATPase
CC091493.1	hypothetical protein	NprA_02475	AAA ATPase	NspA02_00646	AAA ATPase
CC091494.1	hypothetical protein	NprA_02476	AAA ATPase	NspA02_00647	AAA ATPase
CC091495.1	hypothetical protein	NprA_02477	AAA ATPase	NspA02_00648	AAA ATPase
CC091496.1	hypothetical protein	NprA_02478	AAA ATPase	NspA02_00649	AAA ATPase
CC091497.1	hypothetical protein	NprA_02479	AAA ATPase	NspA02_00650	AAA ATPase
CC091498.1	hypothetical protein	NprA_02480	AAA ATPase	NspA02_00651	AAA ATPase
CC091499.1	hypothetical protein	NprA_02481	AAA ATPase	NspA02_00652	AAA ATPase
CC091500.1	hypothetical protein	NprA_02482	AAA ATPase	NspA02_00653	AAA ATPase
CC091501.1	hypothetical protein	NprA_02483	AAA ATPase	NspA02_00654	AAA ATPase
CC091502.1	hypothetical protein	NprA_02484	AAA ATPase	NspA02_00655	AAA ATPase
CC091503.1	hypothetical protein	NprA_02485	AAA ATPase	NspA02_00656	AAA ATPase
CC091504.1	hypothetical protein	NprA_02486	AAA ATPase	NspA02_00657	AAA ATPase
CC091505.1	hypothetical protein	NprA_02487	AAA ATPase	NspA02_00658	AAA ATPase
CC091506.1	hypothetical protein	NprA_02488	AAA ATPase	NspA02_00659	AAA ATPase
CC091507.1	hypothetical protein	NprA_02489	AAA ATPase	NspA02_00660	AAA ATPase
CC091508.1	hypothetical protein	NprA_02490	AAA ATPase	NspA02_00661	AAA ATPase
CC091509.1	hypothetical protein	NprA_02491	AAA ATPase	NspA02_00662	AAA ATPase
CC091510.1	hypothetical protein	NprA_02492	AAA ATPase	NspA02_00663	AAA ATPase
CC091511.1	hypothetical protein	NprA_02493	AAA ATPase	NspA02_00664	AAA ATPase
CC091512.1	hypothetical protein	NprA_02494	AAA ATPase	NspA02_00665	AAA ATPase
CC091513.1	hypothetical protein	NprA_02495	AAA ATPase	NspA02_00666	AAA ATPase
CC091514.1	hypothetical protein	NprA_02496	AAA ATPase	NspA02_00667	AAA ATPase
CC091515.1	hypothetical protein	NprA_02497	AAA ATPase	NspA02_00668	AAA ATPase
CC091516.1	hypothetical protein	NprA_02498	AAA ATPase	NspA02_00669	AAA ATPase
CC091517.1	hypothetical protein	NprA_02499	AAA ATPase	NspA02_00670	AAA ATPase
CC091518.1	hypothetical protein	NprA_02500	AAA ATPase	NspA02_00671	AAA ATPase
CC091519.1	hypothetical protein	NprA_02501	AAA ATPase	NspA02_00672	AAA ATPase
CC091520.1	hypothetical protein	NprA_02502	AAA ATPase	NspA02_00673	AAA ATPase
CC091521.1	hypothetical protein	NprA_02503	AAA ATPase	NspA02_00674	AAA ATPase
CC091522.1	hypothetical protein	NprA_02504	AAA ATPase	NspA02_00675	AAA ATPase
CC091523.1	hypothetical protein	NprA_02505	AAA ATPase	NspA02_00676	AAA ATPase
CC091524.1	hypothetical protein	NprA_02506	AAA ATPase	NspA02_00677	AAA ATPase
CC091525.1	hypothetical protein	NprA_02507	AAA ATPase	NspA02_00678	AAA ATPase
CC091526.1	hypothetical protein	NprA_02508	AAA ATPase	NspA02_00679	AAA ATPase
CC091527.1	hypothetical protein	NprA_02509	AAA ATPase	NspA02_00680	AAA ATPase
CC091528.1	hypothetical protein	NprA_02510	AAA ATPase	NspA02_00681	AAA ATPase
CC091529.1	hypothetical protein	NprA_02511	AAA ATPase	NspA02_00682	AAA ATPase
CC091530.1	hypothetical protein	NprA_02512	AAA ATPase	NspA02_00683	AAA ATPase
CC091531.1	hypothetical protein	NprA_02513	AAA ATPase	NspA02_00684	AAA ATPase
CC091532.1	hypothetical protein	NprA_02514	AAA ATPase	NspA02_00685	AAA ATPase
CC091533.1	hypothetical protein	NprA_02515	AAA ATPase	NspA02_00686	AAA ATPase
CC091534.1	hypothetical protein	NprA_02516	AAA ATPase	NspA02_00687	AAA ATPase
CC091535.1	hypothetical protein	NprA_02517	AAA ATPase	NspA02_00688</td	

CC01631.1	Malonyl-CoA-(acyl-carrier protein) transacylase	Nprj_02632	K00645	Malonyl-CoA-acyl carrier protein transacylase	NspC22_00000	Malonyl-CoA-acyl carrier protein transacylase
CC01632.1	3-oxoacyl-(acyl-carrier-protein) synthase III	Nprj_02632	K00648	3-oxoacyl-acyl-carrier-protein synthase 3	NspC22_00091	3-oxoacyl-acyl-carrier-protein synthase 3
CC01633.1	Fatty acyl/phospholipid synthesis protein	Nprj_02634	K03621	Phosphate acyltransferase protein	NspC22_00092	Phosphate acyltransferase protein
CC01634.1	3'-NADPH-dependent acyl transferase	Nprj_02635	K03622	Serine/threonine kinase-like protein	NspC22_00093	putative ACR protein
CC01636.1	conserved hypothetical protein	Nprj_02636	K03645	sinc finger protein	NspC22_00094	putative ACR protein
CC01637.1	Type II recombination serD	Nprj_02637	K03643	Tyrosine kinase domain protein	NspC22_00095	Tyrosine kinase domain protein
CC01638.1	hypothetical protein NIT07_760008	Nprj_02638	K03627	Farnesylation protein Tyk2-Bp9	NspC22_00096	Farnesylating protein Tyk2-Bp9
CC01639.1	Fructose-1,6-bisphosphatase class I	Nprj_02639	K03843	Fructose-16-bisphosphatase class 1 protein	NspC22_00097	Fructose-16-bisphosphatase class 1 protein
CC01640.1	Heme oxygenase 1	Nprj_02640	K03844	Heme oxygenase 1	NspC22_00098	Heme oxygenase 1
CC01641.1	Ferric uptake regulation protein	Nprj_02641	K03711	Ferric uptake regulation protein	NspC22_00099	Ferric uptake regulation protein
CC01644.1	Acetyl-coenzyme A synthetase	Nprj_02644	K03854	Acetyl-coenzyme A synthetase protein	NspC22_00100	Acetyl-coenzyme A synthetase protein
CC01645.1	hypothetical protein NIT07_760003	Nprj_02645	K03855	Acetyl-coenzyme A synthetase protein	NspC22_00101	Acetyl-coenzyme A synthetase protein
CC01647.1	Nucleotide-triphosphatase	Nprj_02647	K02429	GTP-ATP pyrophosphatase	NspC22_00102	GTP-ATP pyrophosphatase
CC01648.1	membrane hypothetical protein	Nprj_02648	K02430	hypothetical protein	NspC22_00103	hypothetical protein
CC01649.1	hypothetical protein NIT07_760004	Nprj_02649	K03643	ribonucleic RNA methyltransferase RlmN protein	NspC22_00104	ribonucleic RNA methyltransferase RlmN protein
CC01650.1	conserved membrane hypothetical protein	Nprj_02650	K02451	hypothetical protein	NspC22_00105	hypothetical protein
CC01651.1	putative protein, Leucine-rich repeat protein	Nprj_02651	K02452	putative protein, Leucine-rich repeat protein	NspC22_00106	putative protein, Leucine-rich repeat domain-containing protein
CC01654.1	BdA family protein	Nprj_02654	K02454	Protein BdA	NspC22_00107	Protein BdA
CC01655.1	hypothetical protein NIT07_760013	Nprj_02655	K04773	Putative peptidase M9~pro	NspC22_00108	Putative peptidase M9~pro
CC01656.1	putative Signal peptide peptidase SppA	Nprj_02656	K03655	Signal peptide peptidase SppA	NspC22_00109	Signal peptide peptidase SppA
CC01657.1	conserved hypothetical protein	Nprj_02657	K03656	putative ABC-TRAP transporter permease protein SiaT	NspC22_00110	putative ABC-TRAP transporter permease protein SiaT
CC01666.1	Transporter-associated protein peroxisomal transporter DctQ component	Nprj_02658	K03657	putative C4-diacylglycerol transporter, large subunit protein	NspC22_00111	putative C4-diacylglycerol transporter, large subunit protein
CC01667.1	hypothetical protein NIT07_760005	Nprj_02659	K03567	hypothetical protein	NspC22_00112	hypothetical protein
CC01668.1	putative DNA repair protein recF	Nprj_02660	K03568	DNA repair protein RecF	NspC22_00113	DNA repair protein RecF
CC01669.1	putative endoribonuclease LPSP	Nprj_02661	K03602	Protein DnaE	NspC22_00114	Protein DnaE
CC01670.1	hypothetical protein NIT07_760006	Nprj_02662	K03603	hypothetical protein	NspC22_00115	hypothetical protein
CC01671.1	UDP-glucose 4-dehydrogenase	Nprj_02663	K00005	UDP-glucose 4-dehydrogenase protein	NspC22_00116	UDP-glucose 4-dehydrogenase protein
CC01672.1	putative Cytochrome c-554 (modular protein)	Nprj_02664	K03546	Cytochrome C-554 protein	NspC22_00117	Cytochrome C-554 protein
CC01673.1	3'-NADPH-dependent ribonucleic RNA-trimethyltransferase-isomerase	Nprj_02665	K03548	3'-NADPH-dependent ribonucleic RNA-trimethyltransferase-isomerase protein	NspC22_00118	3'-NADPH-dependent ribonucleic RNA-trimethyltransferase-isomerase protein
CC01674.1	Integration host factor subunit alpha	Nprj_02666	K03530	Integration host factor subunit alpha protein	NspC22_00119	Integration host factor subunit alpha protein
CC01675.1	putative Cell division protein ftsH homolog	Nprj_02667	K03530	Cell division protein ftsH	NspC22_00120	Cell division protein ftsH
CC01676.1	Glutamate-1-semialdehyde 2,2-aminomutase	Nprj_02668	K03649	Glutamate-1-semialdehyde 2,2-aminomutase	NspC22_00121	Glutamate-1-semialdehyde 2,2-aminomutase
CC01677.1	putative Phosphotyrosine phosphotransferase	Nprj_02669	K03650	putative Phosphotyrosine phosphotransferase protein	NspC22_00122	putative Phosphotyrosine phosphotransferase protein
CC01680.1	hypothetical protein NIT07_760018	Nprj_02670	K03651	putative ABC-TRAP transporter permease protein Phd	NspC22_00123	putative ABC-TRAP transporter permease protein Phd
CC01681.1	Two-component transcriptional regulator, winged helix family	Nprj_02671	K03557	Outer membrane porin	NspC22_00124	Outer membrane porin
CC01682.1	hypothetical protein NIT07_760019	Nprj_02672	K03558	Intercellular porin	NspC22_00125	Intercellular porin
CC01683.1	Aspartate-semialdehyde dehydrogenase	Nprj_02673	K03559	Aspartate-semialdehyde dehydrogenase protein	NspC22_00126	Aspartate-semialdehyde dehydrogenase protein
CC01684.1	hypothetical protein	Nprj_02674	K03673	putative ABC-TRAP transporter permease protein	NspC22_00127	putative ABC-TRAP transporter permease protein
CC01685.1	putative ATPase, Mrp homolog	Nprj_02675	K03674	putative ATPase, Mrp homolog	NspC22_00128	putative ATPase, Mrp homolog
CC01686.1	hypothetical protein NIT07_760044	Nprj_02676	K03675	hypothetical protein	NspC22_00129	hypothetical protein
CC01687.1	conserved hypothetical protein	Nprj_02677	K03676	Light-independent protocorophyllide reductase subunit B protein	NspC22_00130	Light-independent protocorophyllide reductase subunit B protein
CC01688.1	DNA topoisomerase (ATP-hydrolyzing)	Nprj_02678	K03677	Protein mp	NspC22_00131	Protein mp
CC01689.1	espresso hypothetical protein	Nprj_02679	K03678	putative ABC-TRAP transporter permease protein 4 subunit A protein	NspC22_00132	putative ABC-TRAP transporter permease protein 4 subunit A protein
CC01690.1	hypothetical protein NIT07_760008	Nprj_02680	K03679	ChtrA porin subunit B protein	NspC22_00133	ChtrA porin subunit B protein
CC01691.1	putative helix-turn-helix motif protein	Nprj_02681	K03680	Intercellular porin	NspC22_00134	Intercellular porin
CC01692.1	hypothetical protein NIT07_760011	Nprj_02682	K03681	putative ABC-TRAP transporter permease protein	NspC22_00135	putative ABC-TRAP transporter permease protein
CC01693.1	Two-component transcriptional regulator, winged helix family	Nprj_02683	K03682	Adenylyl cyclase protein	NspC22_00136	Adenylyl cyclase protein
CC01694.1	hypothetical protein NIT07_760012	Nprj_02684	K03683	putative ABC-TRAP transporter permease protein	NspC22_00137	putative ABC-TRAP transporter permease protein
CC01695.1	hypothetical protein	Nprj_02685	K03684	putative ABC-TRAP transporter permease protein	NspC22_00138	putative ABC-TRAP transporter permease protein
CC01696.1	Ribonuclease PH	Nprj_02686	K03685	putative acetylacetate synthase small subunit protein	NspC22_00139	putative acetylacetate synthase small subunit protein
CC01697.1	Acetylacetate synthase, small subunit	Nprj_02687	K03686	putative acetylacetate synthase large subunit protein	NspC22_00140	putative acetylacetate synthase large subunit protein
CC01698.1	hypothetical protein NIT07_760013	Nprj_02688	K03687	putative ABC-TRAP transporter permease protein	NspC22_00141	putative ABC-TRAP transporter permease protein
CC01699.1	hypothetical protein	Nprj_02689	K03688	putative ABC-TRAP transporter permease protein	NspC22_00142	putative ABC-TRAP transporter permease protein
CC01700.1	hypothetical protein	Nprj_02690	K03689	putative ABC-TRAP transporter permease protein	NspC22_00143	putative ABC-TRAP transporter permease protein
CC01701.1	Alanine racemase	Nprj_02691	K03775	Alanine racemase protein	NspC22_00144	Alanine racemase protein
CC01702.1	Dihydroxyacetone dehydrogenase	Nprj_02692	K03776	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00145	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01703.1	putative ABC-TRAP transporter permease protein yhdQ	Nprj_02693	K03777	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00146	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01704.1	Aldo/keto reductase	Nprj_02694	K03778	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00147	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01705.1	Na+/Ca2+ exchanger, Ca/Ca family	Nprj_02695	K03779	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00148	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01706.1	Ribonuclease PH	Nprj_02696	K03780	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00149	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01707.1	hypothetical protein	Nprj_02697	K03781	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00150	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01708.1	hypothetical protein	Nprj_02698	K03782	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00151	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01709.1	hypothetical protein	Nprj_02699	K03783	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00152	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01710.1	hypothetical protein	Nprj_02700	K03784	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00153	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01711.1	hypothetical protein	Nprj_02701	K03785	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00154	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01712.1	hypothetical protein	Nprj_02702	K03786	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00155	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01713.1	hypothetical protein	Nprj_02703	K03787	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00156	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01714.1	hypothetical protein	Nprj_02704	K03788	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00157	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01715.1	hypothetical protein	Nprj_02705	K03789	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00158	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01716.1	hypothetical protein	Nprj_02706	K03790	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00159	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01717.1	hypothetical protein	Nprj_02707	K03791	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00160	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01718.1	hypothetical protein	Nprj_02708	K03792	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00161	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01719.1	hypothetical protein	Nprj_02709	K03793	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00162	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01720.1	hypothetical protein	Nprj_02710	K03794	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00163	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01721.1	hypothetical protein	Nprj_02711	K03795	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00164	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01722.1	hypothetical protein	Nprj_02712	K03796	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00165	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01723.1	hypothetical protein	Nprj_02713	K03797	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00166	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01724.1	hypothetical protein	Nprj_02714	K03798	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00167	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01725.1	hypothetical protein	Nprj_02715	K03799	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00168	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01726.1	hypothetical protein	Nprj_02716	K03800	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00169	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01727.1	hypothetical protein	Nprj_02717	K03801	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00170	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01728.1	hypothetical protein	Nprj_02718	K03802	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00171	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01729.1	hypothetical protein	Nprj_02719	K03803	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00172	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01730.1	hypothetical protein	Nprj_02720	K03804	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00173	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01731.1	hypothetical protein	Nprj_02721	K03805	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00174	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01732.1	hypothetical protein	Nprj_02722	K03806	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00175	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01733.1	hypothetical protein	Nprj_02723	K03807	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00176	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01734.1	hypothetical protein	Nprj_02724	K03808	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00177	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01735.1	hypothetical protein	Nprj_02725	K03809	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00178	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01736.1	hypothetical protein	Nprj_02726	K03810	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00179	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01737.1	hypothetical protein	Nprj_02727	K03811	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00180	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01738.1	hypothetical protein	Nprj_02728	K03812	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00181	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01739.1	hypothetical protein	Nprj_02729	K03813	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00182	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01740.1	hypothetical protein	Nprj_02730	K03814	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00183	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01741.1	hypothetical protein	Nprj_02731	K03815	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00184	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01742.1	hypothetical protein	Nprj_02732	K03816	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00185	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01743.1	hypothetical protein	Nprj_02733	K03817	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00186	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01744.1	hypothetical protein	Nprj_02734	K03818	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00187	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01745.1	hypothetical protein	Nprj_02735	K03819	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00188	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01746.1	hypothetical protein	Nprj_02736	K03820	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00189	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01747.1	hypothetical protein	Nprj_02737	K03821	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00190	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01748.1	hypothetical protein	Nprj_02738	K03822	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00191	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01749.1	hypothetical protein	Nprj_02739	K03823	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00192	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01750.1	hypothetical protein	Nprj_02740	K03824	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00193	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01751.1	hypothetical protein	Nprj_02741	K03825	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00194	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01752.1	hypothetical protein	Nprj_02742	K03826	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00195	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01753.1	hypothetical protein	Nprj_02743	K03827	Dihydroxyacetone dehydrogenase & catalytic subunit protein	NspC22_00196	Dihydroxyacetone dehydrogenase & catalytic subunit protein
CC01754.						

CC01890.1	conserved hypothetical protein, contains DUF151	NprA02_00393	K08999	cytoplasmic protein	NspA02_00445	cytoplasmic protein
CC01900.1	Probable inorganic polyphosphate-ATP-NAD kinase	NprA02_00394	K00858	putative inorganic polyphosphate-ATP-NAD kinase protein	NspA02_00454	putative inorganic polyphosphate-ATP-NAD kinase protein
CC01901.1	putative N-acetylmannosyl-L-alanine amidase, negative regulator of AmpC, AmpD	NprA02_00395	K02895	N-acetylmannosyl-L-alanine amidase negative regulator of AmpC AmpD protein	NspA02_00453	N-acetylmannosyl-L-alanine amidase negative regulator of AmpC AmpD protein
CC01902.1	hypothetical protein	NprA02_00396	K00652	Bifunctional purine biosynthesis protein PurH	NspA02_00452	Bifunctional purine biosynthesis protein PurH
CC01903.1	Bifunctional purine biosynthesis protein PurH	NprA02_00397	K00652	Mutli-copper polyphenol oxidoreductase/laccase protein	NspA02_00447	Bifunctional purine biosynthesis protein PurH
CC01904.1	conserved hypothetical protein, YTH family, putative Multi-copper polyphenol oxidoreductase	NprA02_00398	K00653	Mutli-copper polyphenol oxidoreductase/laccase protein	NspA02_00448	Mutli-copper polyphenol oxidoreductase/laccase protein
CC01905.1	1,4-MQD-binding protein, contains DUF151	NprA02_00399	K00654	Subunit methionine reductase protein	NspA02_00449	Subunit methionine reductase protein
CC01906.1	hypothetical protein NTRG_90049	NprA02_00400	K00655	Subunit methionine reductase protein	NspA02_00440	Subunit methionine reductase protein
CC01907.1	putative DNA polymerase II subunit beta	NprA02_00401	K00736	Subunit methionine reductase protein	NspA02_00441	Subunit methionine reductase protein
CC01908.1	putative DNA polymerase II subunit beta	NprA02_00402	K02315	Subunit methionine reductase protein	NspA02_00442	Subunit methionine reductase protein
CC01909.1	3-deoxy-7-phosphogluconate synthase	NprA02_00403	K02316	Subunit methionine reductase protein	NspA02_00443	Subunit methionine reductase protein
CC01910.1	3-deoxy-7-phosphogluconate synthase	NprA02_00404	K02317	Subunit methionine reductase protein	NspA02_00444	Subunit methionine reductase protein
CC01911.1	exported hypothetical protein	NprA02_00405	K13284	Subunit methionine reductase protein	NspA02_00445	Subunit methionine reductase protein
CC01912.1	conserved hypothetical protein	NprA02_00406	K13285	Subunit methionine reductase protein	NspA02_00446	Subunit methionine reductase protein
CC01913.1	conserved hypothetical protein, succinocarboxamide synthase	NprA02_00407	K02383	Succinocarboxamide synthase	NspA02_00447	Succinocarboxamide synthase
CC01914.1	Adenylosuccinate lyase	NprA02_00408	K02384	Adenylosuccinate lyase	NspA02_00448	Adenylosuccinate lyase
CC01915.1	Low molecular weight protein-tyrosine-phosphatase	NprA02_00409	K02385	Low molecular weight protein-tyrosine-phosphatase	NspA02_00449	Low molecular weight protein-tyrosine-phosphatase
CC01916.1	hypothetical protein	NprA02_00410	K02386	Low molecular weight protein-tyrosine-phosphatase	NspA02_00450	Low molecular weight protein-tyrosine-phosphatase
CC01917.1	Pyravate-ferrredoxin oxidoreductase, epsilon subunit	NprA02_00411	K02387	Pyravate-ferrredoxin oxidoreductase, epsilon subunit	NspA02_00451	Pyravate-ferrredoxin oxidoreductase, epsilon subunit
CC01918.1	Pyravate-ferrredoxin oxidoreductase, gamma subunit	NprA02_00412	K02388	Pyravate-ferrredoxin oxidoreductase, gamma subunit	NspA02_00452	Pyravate-ferrredoxin oxidoreductase, gamma subunit
CC01919.1	Pyravate-ferrredoxin oxidoreductase, beta subunit	NprA02_00413	K02389	Pyravate-ferrredoxin oxidoreductase, beta subunit	NspA02_00453	Pyravate-ferrredoxin oxidoreductase, beta subunit
CC01920.1	Pyravate-ferrredoxin oxidoreductase, alpha subunit	NprA02_00414	K02390	Pyravate-ferrredoxin oxidoreductase, alpha subunit	NspA02_00454	Pyravate-ferrredoxin oxidoreductase, alpha subunit
CC01921.1	Pyravate-ferrredoxin oxidoreductase, delta subunit	NprA02_00415	K02391	Pyravate-ferrredoxin oxidoreductase, delta subunit	NspA02_00455	Pyravate-ferrredoxin oxidoreductase, delta subunit
CC01922.1	putative Rubenithrin-like protein	NprA02_00416	K02392	Rubenithrin-like protein	NspA02_00456	Rubenithrin-like protein
CC01923.1	hypothetical protein	NprA02_00417	K02393	hypothetical protein	NspA02_00457	hypothetical protein
CC01924.1	Protein L-isocitrate O-methyltransferase	NprA02_00418	K00507	Protein L-isocitrate O-methyltransferase	NspA02_00458	Protein L-isocitrate O-methyltransferase
CC01925.1	Peptidase M28	NprA02_00419	K02394	Alkaline phosphatase isozyme conversion protein	NspA02_00459	Alkaline phosphatase isozyme conversion protein
CC01926.1	hypothetical protein NTRG_90065	NprA02_00420	K02395	hypothetical protein	NspA02_00460	hypothetical protein
CC01927.1	FtsY preprotein translocase modulator HflK	NprA02_00421	K02396	Modulator of FtsY preprotein HflK	NspA02_00461	Modulator of FtsY preprotein HflK
CC01928.1	FtsY preprotein translocase modulator HflK	NprA02_00422	K02397	Modulator of FtsY preprotein HflK	NspA02_00462	Modulator of FtsY preprotein HflK
CC01929.1	Putative Transport system, Nod-binding component TrkA	NprA02_00423	K02398	Putative Transport system, Nod-binding component TrkA	NspA02_00463	Putative Transport system, Nod-binding component TrkA
CC01930.1	Flagellar protein FlgS	NprA02_00424	K02399	Putative phosphotransferase protein	NspA02_00464	Putative phosphotransferase protein
CC01931.1	Succinyl-CoA synthetase, beta subunit	NprA02_00425	K02400	Succinyl-CoA synthetase, beta subunit	NspA02_00465	Succinyl-CoA synthetase, beta subunit
CC01932.1	conserved hypothetical protein	NprA02_00426	K02401	hypothetical protein	NspA02_00466	hypothetical protein
CC01933.1	hypothetical protein NTRG_90077	NprA02_00427	K02402	hypothetical protein	NspA02_00467	hypothetical protein
CC01934.1	Protein L-isocitrate O-methyltransferase	NprA02_00428	K02403	hypothetical protein	NspA02_00468	hypothetical protein
CC01935.1	hypothetical protein	NprA02_00429	K02404	hypothetical protein	NspA02_00469	hypothetical protein
CC01936.1	hypothetical protein NTRG_90077	NprA02_00430	K02405	hypothetical protein	NspA02_00470	hypothetical protein
CC01937.1	Adenylosuccinate synthetase	NprA02_00431	K02406	Adenylosuccinate synthetase	NspA02_00471	Adenylosuccinate synthetase
CC01938.1	putative Metal-dependent hydrolase	NprA02_00432	K02407	Family 7 extracellular Cu-lob ligase	NspA02_00472	Family 7 extracellular Cu-lob ligase
CC01939.1	putative Metal-dependent hydrolase	NprA02_00433	K02408	TrpR-like transcriptional regulator	NspA02_00473	TrpR-like transcriptional regulator
CC01940.1	hypothetical protein NTRG_90077	NprA02_00434	K02409	hypothetical protein	NspA02_00474	hypothetical protein
CC01941.1	hypothetical protein NTRG_90065	NprA02_00435	K02410	hypothetical protein	NspA02_00475	hypothetical protein
CC01942.1	FtsY preprotein translocase Dctp	NprA02_00436	K02411	hypothetical protein	NspA02_00476	hypothetical protein
CC01943.1	conserved hypothetical protein	NprA02_00437	K02412	hypothetical protein	NspA02_00477	hypothetical protein
CC01944.1	hypothetical protein NTRG_90012	NprA02_00438	K02413	hypothetical protein	NspA02_00478	hypothetical protein
CC01945.1	putative Sorbitol dehydrogenase	NprA02_00439	K02414	hypothetical protein	NspA02_00479	hypothetical protein
CC01946.1	3-hydroxy-3-methyl glutarate dehydrogenase	NprA02_00440	K02415	3-hydroxy-3-methyl glutarate dehydrogenase	NspA02_00480	3-hydroxy-3-methyl glutarate dehydrogenase
CC01947.1	putative Outer membrane lipoprotein carrier protein	NprA02_00441	K02416	hypothetical protein	NspA02_00481	hypothetical protein
CC01948.1	hypothetical protein Ntrg_90077	NprA02_00442	K02417	hypothetical protein	NspA02_00482	hypothetical protein
CC01949.1	Transcription factor grx4	NprA02_00443	K02418	Transcription factor grx4	NspA02_00483	Transcription factor grx4
CC01950.1	Thi(amine-N7)-methyltransferase	NprA02_00444	K02419	Thi(amine-N7)-methyltransferase	NspA02_00484	Thi(amine-N7)-methyltransferase
CC01951.1	Putative outer membrane protein Cdt	NprA02_00445	K02420	Putative outer membrane protein Cdt	NspA02_00485	Putative outer membrane protein Cdt
CC01952.1	Transmembrane protein TadA	NprA02_00446	K02421	Transmembrane protein TadA	NspA02_00486	Transmembrane protein TadA
CC01953.1	hypothetical protein	NprA02_00447	K02422	hypothetical protein	NspA02_00487	hypothetical protein
CC01954.1	hypothetical protein	NprA02_00448	K02423	hypothetical protein	NspA02_00488	hypothetical protein
CC01955.1	hypothetical protein	NprA02_00449	K02424	hypothetical protein	NspA02_00489	hypothetical protein
CC01956.1	putative Peptidase M28	NprA02_00450	K02425	hypothetical protein	NspA02_00490	hypothetical protein
CC01957.1	5'-nucleotidase surf	NprA02_00451	K02426	5'-nucleotidase Surf protein	NspA02_00491	5'-nucleotidase Surf protein
CC01958.1	Putative efflux system protein CdtD	NprA02_00452	K02427	Putative efflux system protein CdtD	NspA02_00492	Putative efflux system protein CdtD
CC01959.1	Beta-lactamase domain protein	NprA02_00453	K02428	Couenytre POQ synthesis protein B	NspA02_00493	Couenytre POQ synthesis protein B
CC01960.1	hypothetical protein	NprA02_00454	K02429	hypothetical protein	NspA02_00494	hypothetical protein
CC01961.1	Defensin-like synthetase	NprA02_00455	K02430	ATP-dependent dehydrogenase synthetase BioD protein	NspA02_00495	ATP-dependent dehydrogenase synthetase BioD protein
CC01962.1	putative NAD-dependent epimerase/dihydrolipoteichoic acid synthase family protein C	NprA02_00456	K02431	UDP-glucose 4-epimerase protein	NspA02_00496	UDP-glucose 4-epimerase protein
CC01963.1	conserved exported hypothetical protein, FtsH-binding	NprA02_00457	K02432	APM-domain-containing protein	NspA02_00497	APM-domain-containing protein
CC01964.1	hypothetical protein	NprA02_00458	K02433	Putative periplasmic peptidase	NspA02_00498	Putative periplasmic peptidase
CC01965.1	3DS ribosomal protein S15	NprA02_00459	K02434	Putative periplasmic peptidase containing protein	NspA02_00499	Putative periplasmic peptidase containing protein
CC01966.1	Putative Peptidase M28	NprA02_00460	K02435	hypothetical protein	NspA02_00500	3DS ribosomal protein S15
CC01967.1	hypothetical protein	NprA02_00461	K02436	hypothetical protein	NspA02_00501	hypothetical protein
CC01968.1	hypothetical protein	NprA02_00462	K02437	5'-nucleotidase Surf protein	NspA02_00502	5'-nucleotidase Surf protein
CC01969.1	hypothetical protein	NprA02_00463	K02438	Cation efflux system protein Cdt	NspA02_00503	Cation efflux system protein Cdt
CC01970.1	hypothetical protein	NprA02_00464	K02439	Couenytre POQ synthesis protein B	NspA02_00504	Couenytre POQ synthesis protein B
CC01971.1	hypothetical protein	NprA02_00465	K02440	hypothetical protein	NspA02_00505	hypothetical protein
CC01972.1	NADH-quinone oxidoreductase, subunit H	NprA02_00466	K02441	hypothetical protein	NspA02_00506	hypothetical protein
CC01973.1	NADH-quinone oxidoreductase, subunit G	NprA02_00467	K02442	hypothetical protein	NspA02_00507	hypothetical protein
CC01974.1	NADH-quinone oxidoreductase, subunit E	NprA02_00468	K02443	hypothetical protein	NspA02_00508	hypothetical protein
CC01975.1	D-hydroxy-3-hydroxy-3-methyl glutarate dehydrogenase	NprA02_00469	K02444	hypothetical protein	NspA02_00509	hypothetical protein
CC01976.1	hypothetical protein NTRG_90054	NprA02_00470	K02445	hypothetical protein	NspA02_00510	hypothetical protein
CC01977.1	conserved hypothetical protein	NprA02_00471	K02446	hypothetical protein	NspA02_00511	hypothetical protein
CC01978.1	conserved hypothetical protein	NprA02_00472	K02447	hypothetical protein	NspA02_00512	hypothetical protein
CC01979.1	hypothetical protein	NprA02_00473	K02448	hypothetical protein	NspA02_00513	hypothetical protein
CC01980.1	hypothetical protein	NprA02_00474	K02449	hypothetical protein	NspA02_00514	hypothetical protein
CC01981.1	hypothetical protein	NprA02_00475	K02450	hypothetical protein	NspA02_00515	hypothetical protein
CC01982.1	hypothetical protein	NprA02_00476	K02451	hypothetical protein	NspA02_00516	hypothetical protein
CC01983.1	hypothetical protein	NprA02_00477	K02452	hypothetical protein	NspA02_00517	hypothetical protein
CC01984.1	hypothetical protein	NprA02_00478	K02453	hypothetical protein	NspA02_00518	hypothetical protein
CC01985.1	hypothetical protein	NprA02_00479	K02454	hypothetical protein	NspA02_00519	hypothetical protein
CC01986.1	hypothetical protein	NprA02_00480	K02455	hypothetical protein	NspA02_00520	hypothetical protein
CC01987.1	hypothetical protein	NprA02_00481	K02456	hypothetical protein	NspA02_00521	hypothetical protein
CC01988.1	hypothetical protein	NprA02_00482	K02457	hypothetical protein	NspA02_00522	hypothetical protein
CC01989.1	hypothetical protein	NprA02_00483	K02458	hypothetical protein	NspA02_00523	hypothetical protein
CC01990.1	hypothetical protein	NprA02_00484	K02459	hypothetical protein	NspA02_00524	hypothetical protein
CC01991.1	hypothetical protein	NprA02_00485	K02460	hypothetical protein	NspA02_00525	hypothetical protein
CC01992.1	hypothetical protein	NprA02_00486	K02461	hypothetical protein	NspA02_00526	hypothetical protein
CC01993.1	hypothetical protein	NprA02_00487	K02462	hypothetical protein	NspA02_00527	hypothetical protein
CC01994.1	hypothetical protein	NprA02_00488	K02463	hypothetical protein	NspA02_00528	hypothetical protein
CC01995.1	hypothetical protein	NprA02_00489	K02464	hypothetical protein	NspA02_00529	hypothetical protein
CC01996.1	hypothetical protein	NprA02_00490	K02465	hypothetical protein	NspA02_00530	hypothetical protein
CC01997.1	hypothetical protein	NprA02_00491	K02466	hypothetical protein	NspA02_00531	hypothetical protein
CC01998.1	hypothetical protein	NprA02_00492	K02467	hypothetical protein	NspA02_00532	hypothetical protein
CC01999.1	hypothetical protein	NprA02_00493	K02468	hypothetical protein	NspA02_00533	hypothetical protein
CC02000.1	hypothetical protein	NprA02_00494	K02469	hypothetical protein	NspA02_00534	hypothetical protein
CC02001.1	hypothetical protein	NprA02_00495	K02470	hypothetical protein	NspA02_00535	hypothetical protein
CC02002.1	hypothetical protein	NprA02_00496	K02471	hypothetical protein	NspA02_00536	hypothetical protein
CC02003.1	hypothetical protein	NprA02_00497	K02472	hypothetical protein	NspA02_00537	hypothetical protein
CC02004.1	hypothetical protein	NprA02_00498	K02473	hypothetical protein	NspA02_00538	hypothetical protein
CC02005.1	hypothetical protein	NprA02_00499	K02474	hypothetical protein	NspA02_00539	hypothetical protein
CC02006.1	hypothetical protein	NprA02_00500	K02475	hypothetical protein	NspA02_00540	hypothetical protein
CC02007.1	hypothetical protein	NprA02_00501	K02476	hypothetical protein	NspA02_00541	hypothetical protein
CC02008.1	hypothetical protein	NprA02_00502	K02477	hypothetical protein	NspA02_00542	hypothetical protein
CC02009.1	hypothetical protein	NprA02_00503	K02478	hypothetical protein	NspA02_00543	hypothetical protein
CC02010.1	hypothetical protein	NprA02_00504	K02479	hypothetical protein	NspA02_00544	hypothetical protein
CC02011.1	hypothetical protein	NprA02_00505	K02480	hypothetical protein	NspA02_00545	hypothetical protein
CC02012.1	hypothetical protein	NprA02_00506	K02481	hypothetical protein	NspA02_00546	hypothetical protein
CC02013.1	hypothetical protein	NprA02_00507	K02482	hypothetical protein	NspA02_00547	hypothetical protein
CC02014.1	hypothetical protein	NprA02_00508	K02483	hypothetical protein	NspA02_00548	hypothetical protein
CC02015.1	hypothetical protein	NprA02_00509	K02484	hypothetical protein	NspA02_00549	hypothetical protein
CC02016.1	hypothetical protein	NprA02_00510	K02485	hypothetical protein	NspA02_00550	hypothetical protein
CC02017.1	hypothetical protein	NprA02_00511	K02486	hypothetical protein	NspA02_	