

**Table S4. Annotated genes present in NJST258\_2 but not CG307 strain KPN11.**

ref_genome_patric_id	ref_genomeFunction annotated in PATRIC	start	end
fig 1420012.6.peg.636	Mobile element protein	654753	655952
fig 1420012.6.peg.637	orf, conserved hypothetical protein	655962	656150
fig 1420012.6.peg.769	Mobile element protein	785412	785564
fig 1420012.6.peg.770	Chromosome partitioning ATPase in PFGI-1-like cluster, ParA-like	786234	787106
fig 1420012.6.peg.773	Protein with ParB-like nuclease domain in PFGI-1-like cluster	788846	790468
fig 1420012.6.peg.775	FIG141751: hypothetical protein in PFGI-1-like cluster	791052	792269
fig 1420012.6.peg.781	FIG141694: hypothetical protein in PFGI-1-like cluster	798306	799028
fig 1420012.6.peg.782	Putative uncharacterized protein STY4534 (Putative uncharacterized protein)	799745	800197
fig 1420012.6.peg.783	PilL	800321	800890
fig 1420012.6.peg.785	probable exported protein STY4558	801744	802361
fig 1420012.6.peg.788	Coupling protein VirD4, ATPase required for T-DNA transfer	803456	805555
fig 1420012.6.peg.790	putative membrane protein	805815	806573
fig 1420012.6.peg.797	putative exported protein	809830	810483
fig 1420012.6.peg.799	putative exported protein	811328	812809
fig 1420012.6.peg.800	putative lipoprotein	812823	813221
fig 1420012.6.peg.801	Type IV secretory pathway, VirB4 components	813221	815995
fig 1420012.6.peg.805	Glycosaminoglycan attachment site	817441	818808
fig 1420012.6.peg.810	corresponds to STY4575 from Accession AL513382: Salmonella typhi CT18	823995	824390
fig 1420012.6.peg.814	putative membrane protein	827106	828635
fig 1420012.6.peg.820	COG1396: Predicted transcriptional regulators	830907	831101
fig 1420012.6.peg.828	Antirestriction protein	837438	838418
fig 1420012.6.peg.830	Mobile element protein	839859	840806
fig 1420012.6.peg.1747	O antigen biosynthesis rhamnosyltransferase rfbN (EC 2.4.1.-)	1804929	1805837
fig 1420012.6.peg.1749	predicted glycosyltransferase	1806896	1807657
fig 1420012.6.peg.1754	dTDP-4-dehydrorhamnose reductase (EC 1.1.1.133)	1812250	1813140
fig 1420012.6.peg.1755	dTDP-4-dehydrorhamnose 3,5-epimerase (EC 5.1.3.13)	1813155	1813709
fig 1420012.6.peg.1763	capsular polysaccharide biosynthesis protein	1820697	1821731
fig 1420012.6.peg.1764	Phage tail fibers	1822000	1823577
fig 1420012.6.peg.1832	Conjugal transfer protein traA	1887562	1889082
fig 1420012.6.peg.1837	Incl1 plasmid conjugative transfer prepilin PilS	1893277	1893846

fig 1420012.6.peg.1838	PilV-like protein	1894050	1895609
fig 1420012.6.peg.1839	Type III restriction-modification system restriction subunit (EC 3.1.21.5)	1896072	1899032
fig 1420012.6.peg.1840	Type III restriction-modification system methylation subunit (EC 2.1.1.72)	1899042	1900892
fig 1420012.6.peg.1841	SpnT	1901086	1902474
fig 1420012.6.peg.2030	Uropathogenic specific protein	2090595	2091950
fig 1420012.6.peg.2035	Uropathogenic specific protein	2094003	2095283
fig 1420012.6.peg.2043	serine/threonine kinase	2099278	2100171
fig 1420012.6.peg.2045	serine/threonine kinase	2100355	2101248
fig 1420012.6.peg.2046	serine/threonine kinase	2101424	2102317
fig 1420012.6.peg.2047	serine/threonine kinase	2102493	2103383
fig 1420012.6.peg.2542	Phosphoglycerate mutase (EC 5.4.2.1)	2591361	2591792
fig 1420012.6.peg.2544	Probable signal peptide protein	2593420	2594181
fig 1420012.6.peg.2620	Acetyltransferase, GNAT family	2668462	2668875
fig 1420012.6.peg.2720	expressed protein	2760682	2761848
fig 1420012.6.peg.3029	Cold shock protein CspG	3054694	3054882
fig 1420012.6.peg.3031	Beta-mannosidase (EC 3.2.1.25)	3055267	3055404
fig 1420012.6.peg.3101	D-glycerate 2-kinase (EC 2.7.1.165)	3124051	3125310
fig 1420012.6.peg.3485	Prophage P2 OGR protein	3520689	3520907
fig 1420012.6.peg.3725	orf, conserved hypothetical protein	3761888	3762076
fig 1420012.6.peg.3726	Mobile element protein	3762086	3763285
fig 1420012.6.peg.3900	Response regulator receiver protein	3933204	3933821
fig 1420012.6.peg.3906	Transcriptional regulator, LuxR family	3940054	3940689
fig 1420012.6.peg.4167	DNA polymerase IV	4207777	4207947
fig 1420012.6.peg.4466	SSU ribosomal protein S20p	4532925	4533110
fig 1420012.6.peg.4541	Regulator of L-galactonate catabolism YjjM	4610418	4611332
fig 1420012.6.peg.4629	ORF25	4701142	4701780