

Supplementary Table 3

Group1	WP_020974326.1	WP_0754796 WP_0783971 WP_0783975 WP_0754381 WP_0754623 WP_0754997 WP_0388543 WP_0754804 WP_075429285.1	100% 74% 74% 73% 74% 73% 73% 74% 74%
	WP_0754796.1	100% 74% 74% 73% 74% 73% 73% 74% 74%	
	WP_0783971.1	100% 74% 74% 73% 74% 73% 73% 74% 74%	
	WP_0783975.1	100% 74% 74% 73% 74% 73% 73% 74% 74%	
	WP_0754381.1	80% 88% 90% 97% 90% 91% 91% 89% 89%	
	WP_0754623.1	80% 89% 97% 100% 91% 91% 91% 89% 89%	
	WP_0754997.1	82% 89% 95% 95% 92% 92% 92% 89% 89%	
	WP_0388543.1	78% 88% 92% 94% 94% 100% 100% 86% 87%	
	WP_0754804.1	78% 88% 89% 92% 93% 100% 100% 86% 87%	
	WP_075429285.1	82% 88% 89% 92% 93% 100% 100% 86% 87%	
Group2	WP_07544657.1	WP_020858290.1	
	WP_07544657.1	100% 80%	
	WP_020858290.1	80% 100%	
Group3	WP_079755061.1	WP_07104651 AHK77095.1 WP_0722692 WP_0328051 WP_0287882 WP_0754575 WP_03885437 WP_02097431 WP_07547961 WP_0750502 WP_075480431.1	
	WP_079755061.1	100% 44% 44% 43% 43% 43% 43% 42% 41%	
	WP_0722692.1	41% 41% 41% 41% 41% 41% 41% 41% 41%	
	WP_0328051.1	41% 41% 41% 41% 41% 41% 41% 41% 41%	
	WP_0287882.1	41% 41% 41% 41% 41% 41% 41% 41% 41%	
	WP_0754575.1	90% 91% 100% 85% 87% 86% 86%	
	WP_03885437.1	82% 83% 85% 100% 88% 87% 87% 86% 86%	
	WP_02097431.1	82% 83% 85% 86% 86% 90% 90% 89% 89%	
	WP_07547961.1	82% 83% 85% 86% 86% 90% 90% 89% 89%	
	WP_075480431.1	81% 82% 86% 88% 89% 100% 99% 89%	
Group4	WP_075440291.1	WP_075440451 WP_0754281 WP_0754702 WP_0754941 WP_0754446 WP_07548115 WP_020974591.1	
	WP_075440291.1	100% 100% 99% 98% 97% 97% 98% 97%	
	WP_075440451.1	100% 100% 99% 98% 97% 97% 98% 97%	
	WP_0754281.1	100% 99% 100% 99% 97% 98% 98% 97%	
	WP_0754702.1	99% 99% 99% 100% 97% 97% 97% 97%	
	WP_0754941.1	97% 98% 98% 97% 100% 100% 99% 100%	
	WP_0754446.1	97% 98% 98% 97% 100% 100% 99% 100%	
	WP_07548115.1	98% 98% 98% 97% 99% 100% 99% 100%	
	WP_020974591.1	98% 98% 98% 97% 100% 100% 99% 100%	
Group5	WP_075437196.1	WP_07548000 WP_07549974.1	
	WP_075437196.1	100% 91% 96%	
	WP_07548000.1	95% 94% 94%	
	WP_07549974.1	95% 95% 100%	
Group6	WP_051875541.1	WP_00278501 WP_0028731 CON95181.1 WP_0754941 WP_075411N WP_0789112 WP_0754501	
	WP_051875541.1	90% 98% 98% 98% 98% 98% 98% 79%	
	WP_00278501.1	98% 100% 100% 78% 79% 80% 80% 80%	
	WP_0028731.1	98% 100% 100% 79% 79% 80% 80% 80%	
	CON95181.1	79% 98% 99% 100% 99% 99% 99% 94%	
	WP_0754941.1	75% 78% 76% 93% 100% 95% 96% 96%	
	WP_075411N.1	79% 79% 79% 94% 95% 100% 97% 97%	
	WP_0789112.1	76% 79% 77% 94% 96% 97% 100% 99%	
	WP_0754501.1	77% 79% 77% 94% 96% 97% 100% 99%	
	WP_07545001.1	77% 79% 77% 94% 96% 97% 100% 99%	

Supplementary Table 5

Group 2							Color code
Gene	Non-unique Gene name	Annotation	Orthologue	coverage	%nt id to <i>C. jejuni</i>		
ERR1163614	XIII						<i>C. coli</i> clade 1
group_7984	pglH_2	GalNAc-alpha-(1->4)-GalNAc-alpha-(1->3)-diNAcBac-PP-undecapreno	4055	50	76		<i>C. coli</i> clade 2
gspA		General stress protein A	4003	N/A	N/A		<i>C. coli</i> clade 3
group_7985	epsH	Putative glycosyltransferase EpsH	4056	36	82		GT42 group 2 cstIII
group_7986	cstIII	GT-42 glycosyltransferase	4057	100	82		GT42 group 4 cstII
legl_1		N,N'-diacetyllegionaminic acid synthase	4155	100	83		GT42 group 5 cstV
group_2770	siaA	UDP-N-acetylglucosamine 2-epimerase	4014	99	87		GT42 group 6 cstVI
group_7987		hypothetical protein	4058	98	84		GT42 group 7 cstIV
neuA_2		N-acylneuraminate cytidylyltransferase	4059	96	77		
ERR1163713	XIV						Sialic acid biosynthesis genes
pglH_1		GalNAc-alpha-(1->4)-GalNAc-alpha-(1->3)-diNAcBac-PP-undecapreno	4002	69	73		Capsule genes
gspA		General stress protein A	4003	N/A	N/A		
group_7985	epsH	Putative glycosyltransferase EpsH	4056	36	82		N/A: No significant similarity found
group_7986	cstIII	GT-42 glycosyltransferase	4057	100	82		
legl_1		N,N'-diacetyllegionaminic acid synthase	4155	100	83		
group_2770	siaA	UDP-N-acetylglucosamine 2-epimerase	4014	99	87		
group_7987		hypothetical protein	4058	98	84		
neuA_2		N-acylneuraminate cytidylyltransferase	4059	96	77		
SRR5152313	incomplete						
group_10079	epsJ_4	putative glycosyltransferase EpsJ	4188	100	100		
group_10078		hypothetical protein	4186	100	100		
group_10077	epsJ_3	putative glycosyltransferase EpsJ	4187	100	100		
?			?	100	100		
group_10088	cstIII	GT-42 glycosyltransferase	4159	100	100		
legl_2		N,N'-diacetyllegionaminic acid synthase	4181	100	100		
siaA		UDP-N-acetylglucosamine 2-epimerase	4182	100	100		
neuA		N-acylneuraminate cytidylyltransferase	4183	100	100		
group_10086		hypothetical protein	4184	100	100		

Group 4						
Gene	Non-unique Gene name	Annotation	Orthologue	coverage	%nt id to <i>C. jejuni</i>	
ERR1163434	XV					
group_5652	epsJ_1	putative glycosyltransferase EpsJ	4009	98	81	
group_7342		hypothetical protein	4010	98	87	
group_7343	epsH	Putative glycosyltransferase EpsH	4011	99	84	
group_7344	cstII	GT-42 glycosyltransferase	4012	97	87	
legl_1		N,N'-diacetyllegionaminic acid synthase	4155	94	84	
group_2770	siaA	UDP-N-acetylglucosamine 2-epimerase	4014	100	87	

group_7345	neuA	N-acylneuraminate cytidylyltransferase	4015	N/A	N/A
ERR084011	XVI				
group_5814	pglH_1	GalNAc-alpha-(1->4)-GalNAc-alpha-(1->3)-diNAcBac-PP-undecaprenol	4164	100	100
group_5815	epsH	Putative glycosyltransferase EpsH	4163/4172	100	97/99
group_5816	epsJ_2	putative glycosyltransferase EpsJ	4162	100	97
epsH_1		Putative glycosyltransferase EpsH	4161	99	99
group_6953	cstII	GT-42 glycosyltransferase	4149	100	100
group_5817	legI_1	N,N'-diacetyllegionaminic acid synthase	4150	100	100
group_4682	siaA	UDP-N-acetylglucosamine 2-epimerase	4051	100	100
group_4496	neuA	N-acylneuraminate cytidylyltransferase	4052	100	100
group_2414	cat	Streptogramin A acetyltransferase	4168	100	100
ERR593723	XVII				
group_5351	epsJ_3	putative glycosyltransferase EpsJ	4172	100	99
group_5816	epsJ_2	putative glycosyltransferase EpsJ	4162	100	97
epsH_1		Putative glycosyltransferase EpsH	4161	99	99
group_4171	cstII	GT-42 glycosyltransferase	4153	100	99
group_5817	legI_1	N,N'-diacetyllegionaminic acid synthase	4150	100	100
group_4682	siaA	UDP-N-acetylglucosamine 2-epimerase	4051	100	100
group_4496	neuA	N-acylneuraminate cytidylyltransferase	4052	100	100
vatD		Streptogramin A acetyltransferase	4171	100	99
group_2770	siaA	UDP-N-acetylglucosamine 2-epimerase	4014		
legI_1		N,N'-diacetyllegionaminic acid synthase	4155		
rkpK		UDP-glucose 6-dehydrogenase	4042		
group_4438		UDP-glucose 4-epimerase	4041		
galE_2		UDP-glucose 4-epimerase	4076		
rfbD		UDP-galactopyranose mutase	4075		
neuA_2		N-acylneuraminate cytidylyltransferase	4059		
group_2415	epsJ_1	putative glycosyltransferase EpsJ	4169		
SRR4242504	XVIII				
group_5351	epsJ_3	putative glycosyltransferase EpsJ	4172	100	99
group_5816	epsJ_2	putative glycosyltransferase EpsJ	4162	100	97
epsH_1		Putative glycosyltransferase EpsH	4161	99	99
group_4169	cstII	GT-42 glycosyltransferase	4158	100	99
group_5817	legI_1	N,N'-diacetyllegionaminic acid synthase	4150	100	100
group_4682	siaA	UDP-N-acetylglucosamine 2-epimerase	4051	100	100
group_4700		hypothetical protein	4179	100	99
group_4496	neuA	N-acylneuraminate cytidylyltransferase	4052	100	100

vatD		Streptogramin A acetyltransferase	4171	100	99
group_2414	cat	Streptogramin A acetyltransferase	4168	100	99
group_2770	siaA	UDP-N-acetylglucosamine 2-epimerase	4014		
legl_1		N,N'-diacetyllegionaminic acid synthase	4155		
rkpK		UDP-glucose 6-dehydrogenase	4042		
group_4438		UDP-glucose 4-epimerase	4041		
galE_2		UDP-glucose 4-epimerase	4076		
rfbD		UDP-galactopyranose mutase	4075		
neuA_2		N-acylneuraminate cytidyltransferase	4059		
SRR4453631		XIX			
group_6437	pglH_1	GalNAc-alpha-(1->4)-GalNAc-alpha-(1->3)-diNAcBac-PP-undecapreno	4180	100	85
group_5351	epsJ_3	putative glycosyltransferase EpsJ	4172	100	99
group_5816	epsJ_2	putative glycosyltransferase EpsJ	4162	100	97
epsH_1		Putative glycosyltransferase EpsH	4161	99	99
group_4171	cstII	GT-42 glycosyltransferase	4153	100	99
group_5817	legl_1	N,N'-diacetyllegionaminic acid synthase	4150	100	100
group_4682	siaA	UDP-N-acetylglucosamine 2-epimerase	4051	100	100
group_4496	neuA	N-acylneuraminate cytidyltransferase	4052	100	100
vatD		Streptogramin A acetyltransferase	4171	100	99
ERR593755		XX			
group_5351	epsJ_3	putative glycosyltransferase EpsJ	4172	100	99
group_4168	cstII	GT-42 glycosyltransferase	4158	100	99
group_5817	legl_1	N,N'-diacetyllegionaminic acid synthase	4150	100	100
group_4682	siaA	UDP-N-acetylglucosamine 2-epimerase	4051	100	100
group_4496	neuA	N-acylneuraminate cytidyltransferase	4052	100	100
vatD		Streptogramin A acetyltransferase	4171	100	99
SRR5794756		XXI			
group_10251	epsJ_1	putative glycosyltransferase EpsJ	4197	67	91
group_10252		hypothetical protein	4196	100	100
group_10253	epsJ_2	putative glycosyltransferase EpsJ	4195	100	100
group_4169	cstII	GT-42 glycosyltransferase	4158	100	99
group_5817	legl_1	N,N'-diacetyllegionaminic acid synthase	4150	100	100
group_4682	siaA	UDP-N-acetylglucosamine 2-epimerase	4051	100	100
group_4700		hypothetical protein	4179	100	99
group_4496	neuA	N-acylneuraminate cytidyltransferase	4052	100	100
vatD		Streptogramin A acetyltransferase	4171	100	99

SRR3215130	XXII					
group_5814	pglH_1	GalNAc-alpha-(1->4)-GalNAc-alpha-(1->3)-diNAcBac-PP-undecapreno	4164	100	100	
group_5351	epsJ_3	putative glycosyltransferase EpsJ	4172	100	99	
group_5816	epsJ_2	putative glycosyltransferase EpsJ	4162	100	97	
epsH_1		Putative glycosyltransferase EpsH	4161	99	99	
group_4169	cstII	GT-42 glycosyltransferase	4158	100	99	
group_5817	legI_1	N,N'-diacetyllegionaminic acid synthase	4150	100	100	
group_4682	siaA	UDP-N-acetylglucosamine 2-epimerase	4051	100	100	
group_4700		hypothetical protein	4179	100	99	
group_4496	neuA	N-acylneuraminate cytidylyltransferase	4052	100	100	
group_2414	cat	Streptogramin A acetyltransferase	4168	100	99	
ERR1163833, SRR2920321	XXIII					
group_5920	cstII	GT-42 glycosyltransferase	4132	98	87	
legI_1		N,N'-diacetyllegionaminic acid synthase	4155	94	84	
group_2770	siaA	UDP-N-acetylglucosamine 2-epimerase	4014	100	87	
group_5314	neuA	N-acylneuraminate cytidylyltransferase	4131/4156	91/NA	77/NA	
group_8887	vatD	Streptogramin A acetyltransferase	4130/4173	100	85/89	

Group 4 and 5						
Gene	Non-unique Gene name	Annotation	Orthologue	coverage	%nt id to <i>C. jejuni</i>	
SRR1975100	XXIV					
group_9352	pglH_1	GalNAc-alpha-(1->4)-GalNAc-alpha-(1->3)-diNAcBac-PP-undecapreno	4175	99	78	
group_5160	cstV	GT-42 glycosyltransferase	4139	N/A	N/A	
group_1515	legI_1	N,N'-diacetyllegionaminic acid synthase	4013	N/A	N/A	
group_5920	cstII	GT-42 glycosyltransferase	4132	99	88	
legI_1		N,N'-diacetyllegionaminic acid synthase	4155	100	83	
group_2770	siaA	UDP-N-acetylglucosamine 2-epimerase	4014	100	86	
group_5314	neuA	N-acylneuraminate cytidylyltransferase	4131	91	77	
group_8887	vatD	Streptogramin A acetyltransferase	4130	100	85	

Group 5						
Gene	Non-unique Gene name	Annotation	Orthologue	coverage	%nt id to <i>C. jejuni</i>	
ERR1163655	IX					
group_5159	pglH_2	GalNAc-alpha-(1->4)-GalNAc-alpha-(1->3)-diNAcBac-PP-undecapreno	4138	95	78	
group_5160	cstV	GT-42 glycosyltransferase	4139	N/A	N/A	
group_1515	legI_1	N,N'-diacetyllegionaminic acid synthase	4013	99	84	
group_2770	siaA	UDP-N-acetylglucosamine 2-epimerase	4014	100	87	
group_4585	neuA	N-acylneuraminate cytidylyltransferase	4146	N/A	N/A	
group_8111	gspA	General stress protein A	4147	N/A	N/A	

ERR1163885, ERR1163441, ERR1163615, ERR1163639, ERR1163676, ERR1163717, ERR1163831			XXV		
group_5159	pglH_2	GalNAc-alpha-(1->4)-GalNAc-alpha-(1->3)-diNAcBac-PP-undecapreno	4138	95	78
group_5160	cstV	GT-42 glycosyltransferase	4139	N/A	N/A
group_1515	legI_1	N,N'-diacetyllegionaminic acid synthase	4013	99	84
group_2770	siaA	UDP-N-acetylglucosamine 2-epimerase	4014	100	87
group_4585	neuA	N-acylneuraminate cytidyltransferase	4146/4148	N/A 95	N/A 78

ERR1163416, ERR1163494, ERR1163599, ERR1163863			XXVI		
group_5159	pglH_2	GalNAc-alpha-(1->4)-GalNAc-alpha-(1->3)-diNAcBac-PP-undecapreno	4138	95	78
group_5160	cstV	GT-42 glycosyltransferase	4139	N/A	N/A
group_1515	legI_1	N,N'-diacetyllegionaminic acid synthase	4013	99	84
group_7292	siaA	UDP-N-acetylglucosamine 2-epimerase	4140	82	88
group_7293		hypothetical protein	4141	N/A	N/A
group_7294		hypothetical protein	4142	97	78
group_7295	neuA	N-acylneuraminate cytidyltransferase	4143	N/A	N/A

Group 6					
Gene	Non-unique Gene name	Annotation	Orthologue	coverage	%nt id to <i>C. jejuni</i>
SRR5005386	III				
pglH_1		GalNAc-alpha-(1->4)-GalNAc-alpha-(1->3)-diNAcBac-PP-undecapreno	4002	69	73
gspA		General stress protein A	4003	N/A	N/A
group_5761	epsJ_1	putative glycosyltransferase EpsJ	4004	35	84
group_2111		hypothetical protein	4211	N/A	N/A
group_3997	cstVI	GT-42 glycosyltransferase	4127/cst-F	N/A	N/A
ERR1163830	XXVII				
group_8851	epsJ_3	putative glycosyltransferase EpsJ	4129	66	75
group_6191		hypothetical protein	4067	N/A	N/A
group_4660	epsJ_2	putative glycosyltransferase EpsJ	4068	97	80
group_8850		hypothetical protein	4069	N/A	N/A
group_8256		hypothetical protein	4070	N/A	N/A
group_4000	cstVI	GT-42 glycosyltransferase	4200	N/A	N/A
ERR1163806, ERR1163854	XXVIII				
group_6190	epsJ_1	putative glycosyltransferase EpsJ	4066	91	76
group_6191		hypothetical protein	4067	N/A	N/A
group_4660	epsJ_2	putative glycosyltransferase EpsJ	4068	97	80
tagE		putative poly(glycerol-phosphate) alpha-glucosyltransferase	4124	N/A	N/A
group_8755	epsJ_3	putative glycosyltransferase EpsJ	4125	40	83

group_2110		hypothetical protein	4126	N/A	N/A
group_3997	cstVI	GT-42 glycosyltransferase	4127	N/A	N/A
group_2770	siaA	UDP-N-acetylglucosamine 2-epimerase	4014		
legl_1		N,N'-diacetyllegionaminic acid synthase	4155		
group_4658	cstI	hypothetical protein	4157		

Group 7					
Gene	Non-unique Gene name	Annotation	Orthologue	coverage	%nt id to <i>C. jejuni</i>
ERR1163758	II				
group_7713	epsJ_1	putative glycosyltransferase EpsJ	4201	N/A	N/A
group_7712		hypothetical protein	4208	N/A	N/A
group_2667		hypothetical protein	4209	N/A	N/A
group_6160	cstIV	GT-42 glycosyltransferase	4210	N/A	N/A
group_7711		hypothetical protein	4202	N/A	N/A
cptA		Phosphoethanolamine transferase CptA	4203	N/A	N/A
group_7710		hypothetical protein	4204	N/A	N/A
group_4620		hypothetical protein	4205	N/A	N/A
group_6063		hypothetical protein	4206	N/A	N/A
group_3722		hypothetical protein	4207	N/A	N/A
group_4658		hypothetical protein	4157		
group_7183	neuA	N-acylneuraminate cytidylyltransferase	4156		
legl_1		N,N'-diacetyllegionaminic acid synthase	4155		
group_2770	siaA	UDP-N-acetylglucosamine 2-epimerase	4014		
ERR1163726	XXIX				
group_5303	epsJ_1	putative glycosyltransferase EpsJ	4060	67	76
group_4659		hypothetical protein	4061	N/A	N/A
group_8389		hypothetical protein	4083	N/A	N/A
group_6184	cstIV	GT-42 glycosyltransferase	4063	N/A	N/A
eptC		Phosphoethanolamine transferase EptC	4084	N/A	N/A
group_2770	siaA	UDP-N-acetylglucosamine 2-epimerase	4014		
legl_1		N,N'-diacetyllegionaminic acid synthase	4155		
group_4585	neuA	N-acylneuraminate cytidylyltransferase	4146		
ERR1163788, SRR1975124, ERR1163731, SRR3214492			30		
group_5303	epsJ_1	putative glycosyltransferase EpsJ	4060	67	76
group_4659		hypothetical protein	4061	N/A	N/A
group_2671		hypothetical protein	4062	N/A	N/A

group_6184	cstIV	GT-42 glycosyltransferase	4063	N/A	N/A
eptC		Phosphoethanolamine transferase EptC	4084	N/A	N/A
ERR1163754	XXXI				
group_8560	epsJ_1	putative glycosyltransferase EpsJ	4101	91	77
group_4659		hypothetical protein	4061	N/A	N/A
group_2671		hypothetical protein	4062	N/A	N/A
group_6184	cstIV	GT-42 glycosyltransferase	4063	N/A	N/A
eptC		Phosphoethanolamine transferase EptC	4084	N/A	N/A
group_2770	siaA	UDP-N-acetylglucosamine 2-epimerase	4014		
legl_1		N,N'-diacetyllegionaminic acid synthase	4155		
group_4658		hypothetical protein	4157		
group_5314	neuA	N-acylneuraminate cytidyltransferase	4131		
ERR1163708 and SRR3214482	XXXII				
group_5303	epsJ_1	putative glycosyltransferase EpsJ	4060	67	76
group_4659		hypothetical protein	4061	N/A	N/A
group_2671		hypothetical protein	4062	N/A	N/A
group_6184	cstIV	GT-42 glycosyltransferase	4063	N/A	N/A
pssM		Exopolysaccharide glucosyl ketal-pyruvate-transferase	4064	N/A	N/A
group_8235		hypothetical protein	4065	43	81
ERR1163818, ERR1163835	XXXIII				
group_5303	epsJ_1	putative glycosyltransferase EpsJ	4060	67	76
group_4659		hypothetical protein	4061	N/A	N/A
group_2671		hypothetical protein	4062	N/A	N/A
group_6184	cstIV	GT-42 glycosyltransferase	4063	N/A	N/A
eptC		Phosphoethanolamine transferase EptC	4084	N/A	N/A
pssM		Exopolysaccharide glucosyl ketal-pyruvate-transferase	4064	N/A	N/A
group_8235		hypothetical protein	4065	43	81
SRR1975129	XXXIV				
group_5303	epsJ_1	putative glycosyltransferase EpsJ	4060	67	76
group_4659		hypothetical protein	4061	N/A	N/A
group_2671		hypothetical protein	4062	N/A	N/A
group_6184	cstIV	GT-42 glycosyltransferase	4063	N/A	N/A
eptC		Phosphoethanolamine transferase EptC	4084	N/A	N/A
eptC_2		Phosphoethanolamine transferase EptC	4176	N/A	N/A
group_9399		hypothetical protein	4177	N/A	N/A

group_2770 legI_1	siaA	UDP-N-acetylglucosamine 2-epimerase N,N'-diacetyllegionaminic acid synthase	4014 4155		
ERR1163785	XXXV				
group_8590	epsJ_2	putative glycosyltransferase EpsJ	4105	66	76
group_6243		hypothetical protein	4106	N/A	N/A
group_6244		hypothetical protein	4107	N/A	N/A
group_8591	cstIV	GT-42 glycosyltransferase	4108	N/A	N/A
eptC_1		Phosphoethanolamine transferase EptC	4109	N/A	N/A
group_8593	eptC_2	Phosphoethanolamine transferase EptC	4110	N/A	N/A
group_4522	fdtB	dTDP-3-amino-3,6-dideoxy-alpha-D-galactopyranose transaminase	4018	N/A	N/A
group_8594	wfgD	UDP-Glc:alpha-D-GlcNAc-diphosphoundecaprenol beta-1,3-glucosyltr	4111	N/A	N/A
group_8595		hypothetical protein	4112	N/A	N/A
group_8596	epsE	Putative glycosyltransferase EpsE	4113	N/A	N/A
group_6229		hypothetical protein	4097	N/A	N/A
group_8529	lacA_1	Galactoside O-acetyltransferase	4098	N/A	N/A
fdtA		TDP-4-oxo-6-deoxy-alpha-D-glucose-3,4-oxoisomerase	4078	N/A	N/A
oatWY		Polysialic acid O-acetyltransferase	4077	N/A	N/A
rfbB		dTDP-glucose 4,6-dehydratase	4026	N/A	N/A
rmlA		Glucose-1-phosphate thymidyltransferase	4027	N/A	N/A

Elementary Table 6

Genome (Acc. Number)	MLST Sequence	ReMatCh results for
		GT-42
ERR221394	19	<i>cstIV</i>
ERR221300	48	<i>cstIV</i>
SRR5170912	459	<i>cstIV</i>
SRR2976823	459	<i>cstIV</i>
SRR3583303	459	<i>cstIV</i>
SRR4018132	459	<i>cstIV</i>
SRR2727977	459	<i>cstIV</i>
SRR3066579	459	<i>cstIV</i>
SRR5808785	459	<i>cstIV</i>
SRR5821279	459	<i>cstIV</i>
SRR3953110	459	<i>cstIV</i>
SRR3611765	459	<i>cstIV</i>
SRR5297422	459	<i>cstIV</i>
SRR5209908	459	<i>cstIV</i>
SRR3543495	459	<i>cstIV</i>
ERR1906140	1286	<i>cstIV</i>
ERR1906133	1286	<i>cstIV</i>
ERR1906188	1316	<i>cstIV</i>
ERR226168	2568	<i>cstIV</i>
ERR152270	2568	<i>cstIV</i>
SRR3402101	4486	<i>cstIV</i>
ERR349076	6564	<i>cstIV</i>
ERR349092	7278	<i>cstIV</i>
ERR1025561	7546	<i>cstIV</i>
SRR5230154	-	<i>cstIV</i>
SRR5297186	-	<i>cstIV</i>
SRR4175504	-	<i>cstIV</i>
SRR4022328	-	<i>cstIV</i>
SRR5222006	-	<i>cstIV</i>
ERR349072	-	<i>cstIV</i>
SRR4022329	-	<i>cstIV</i>
SRR3196134	-	<i>cstIV</i>
SRR3490037	-	<i>cstIV</i>
ERR222680	-	<i>cstIV</i>
SRR3619952	-	<i>cstIV</i>
ERR349126	-	<i>cstIV</i>
SRR3490036	-	<i>cstIV</i>
SRR3882939	-	<i>cstIV</i>
SRR5925242	-	<i>cstIV</i>
ERR355978	-	<i>cstIV</i>
ERR196590	19	<i>cstVI</i>
ERR211364	21	<i>cstVI</i>
ERR152288	45	<i>cstVI</i>
ERR196398	61	<i>cstVI</i>
ERR196702	1044	<i>cstVI</i>
ERR152190	2568	<i>cstVI</i>
ERR128771	-	<i>cstVI</i>
ERR211196	-	<i>cstVI</i>
ERR211199	-	<i>cstVI</i>
ERR193035	-	<i>cstVI</i>
ERR084058	3029	<i>cstVII</i>
ERR1815190	-	<i>cstVII</i>

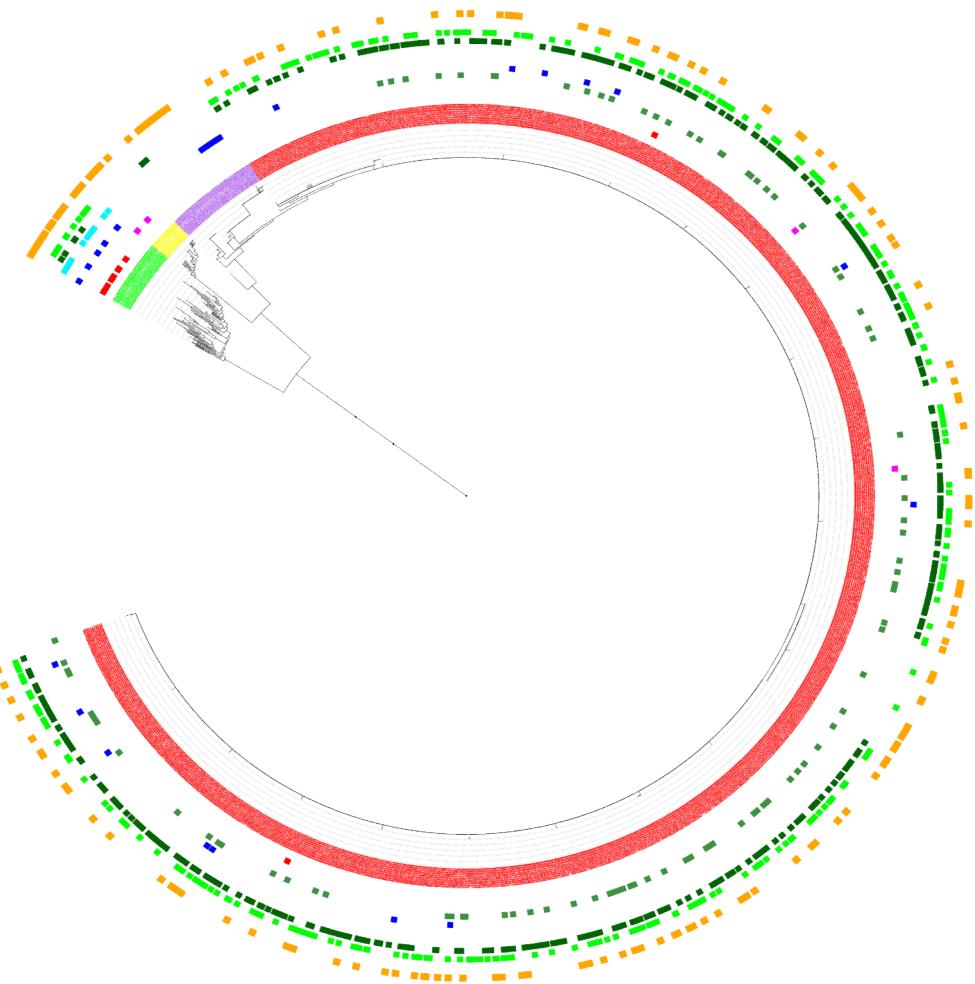


Figure S1. Evolutionary analyses of 2553 *C. coli* strains based on *atpA* conducted in MEGA7 and the evolutionary history was inferred using the Minimum Evolution method calculating the distance using Maximum Composite Likelihood. Colour of the leaf correspond of the *C. coli* clades as defined by Sheppard and colleagues¹, and inferred using hierBAPS²: Clade 1a, red; Clade 1b and 1c, violet; Clade 2, yellow; Clade 3, green. Circles from in to out, positive ReMatCh results for: GT42 Group 1 (*cstI*), red; GT42 Group 2 (*cstIII*), pink; GT42 Group 3 (*cstVII*), turquoise; GT42 Group 4 (*cstII*), blue; GT42 Group 5 (*cstV*), cyan; GT42 Group 6 (*cstVI*), green; GT42 Group 7 (*cstIV*), light green; *neuB*, orange.

REFERENCES

- 1 Sheppard, S. K. *et al.* Progressive genome-wide introgression in agricultural *Campylobacter coli*. *Mol. Ecol.* **22**, 1051–1064 (2013).
- 2 Cheng, L., Connor, T. R., Sirén, J., Aanensen, D. M. & Corander, J. Hierarchical and Spatially Explicit Clustering of DNA Sequences with BAPS Software. *Mol. Biol. Evol.* **30**, 1224–1228 (2013).