

**Supplementary Figure 1.** Allelic glycosyltransferase Orf18. Alignment of the amino acid sequences of the Orf18 glycosyltransferases from the *C. jejuni* strains. Only variable residues are shown and "." indicates identical amino acid. The Orf18 from *C. jejuni* strain RM3441 HS:56 (Genbank accession number: EU410351) was also included in this analysis.

				40				80
GB15f	MPKISIIILPT	FNVEKYIAKA	LESCINQSFK	DIEIIVVDDC	GSDKSIDIAK	EYAKKDERIK	IIHNEKNLGT	FAARNNGVKH
RM1170f	.....	.....	.....	..G..	.....	.....	.....	.....
GB24k	.....M..	.....R..	I..V..	.....I..	.....N..	.....	.....	.....
RM1221f/RM1508j	.....	.....	.....	.....	.....	.....K..	..V..	.....
RM1850i	.....	.....	.....	.....	.....	.....	.....E..	.....
RM2095n	.....	.....R..	I..	.....	.....	.....	.....E..	.....A
RM2227/RM2229k	.....M..	.....R..	I..V..	.....I..	.....N..	.....	.....	.....
RM3415f	.....	.....	.....	.....	.....	.....	.....E..	.....
LIO87d/RM3418d	.....	.....	.....	.....	.....	.....	.....V..	.....
RM3419s	.....	.....	.....	.....	.....	.....	.....E..	.....
RM3437q	.....I..	Y.....	R.....	.....T..	.....N..	E.....	.....T..	KT.....
RM3441?	.....	.....R..	I..	.....	.....	.....	.....E..	.....X
				120				160
GB15f	SNSEYLMFLD	PDDYLELDAC	EKLILLINTY	KICQFSFTQI	SNGIKLKSVF	KDTLKNLKEF	KGIYWNICTL	FVKKDFYLS
RM1170f	.....	.....	.....	.....	.....	.....	.....	.....
RM1221f/RM1508j	.....	..F..E..	.....	.....	N.....	.....	.....	.....
RM1850i	..G.....	..F..E..	.....	.....	N.....	.....	.....	.....
RM2095n	AGGG..I...	.....	.....	.....	.....	.....	.....W..	.....
RM2227k/RM2229k	..G.....	.....	.....H..	.....	..V.....	.....E..	.....W..	..A....D.
RM3415f	..G.....	..F..E..	.....	.....	.....	.....	.....W..	.....
LIO87d/RM3418d	..G.....	..F..E..	.....	A.....	N.....	.....	.....	.....
RM3419s	..G.....	..F..E..	.....	.....	N.....	.....	.....	.....
RM3437q	.....	.....	.....	.....	.....	.....	.....	.....D.
RM3441?	AGGG..I...	.....E..	.....	.....	..V.....	..F..E..	.....	.....W..
				200				240
GB15f	LEELFLIDDK	LLVAEDMLAV	FFLINNPKDD	EYLQVDLHLY	NYVDHSFSIT	KRQRNKEKIQ	ECLDDYFYIL	KYIKENKILK
RM1170f	.....	.....	.....	.....	.....	.....	.....	.....
GB24k	..K..A...	.....F..	.....N..	.....Y..	.....N..	.....R.....	D.....	.....
RM1221f/RM1508j	.....	.....	.....Y..	.....	.....	.....R.....	F.....	.....
RM1850i	.....	.....	.....	.....	.....N..	.....	.....	.....
RM2095n	.....	.....	.....	.....	.....	.....	.....	.....
RM2227k/RM2229k	..K..A...	.....F..	.....N..	.....Y..	.....N..	.....R.....	D.....	.....
RM3415f	.....	.....	.....	.....	.....	.....R.....	.....	.....
LIO87d/RM3418d	.....	.....	.....F..	.....Y..	.....N..	.....	.....	.....
RM3419s	.....	.....	.....	.....	.....N..	.....	.....	.....
RM3437q	..K..A...	.....F..	.....N..	.....Y..	.....N..	.....R.....	D.....	.....
RM3441?	.....	.....	.....G..	.....	.....N..	.....	.....	.....
				280				
GB15-f	ENLKSIVLIY	LQIDILKFLF	NNKKINYFKY	KLLKKIYKCK	MLFLKLNFSK	KFFYF---	.....	.....
RM1170-f	.....	.....	.....	.....	.....	.....	.....	.....
GB24-k	.....A..	.....	.....E..	.....M..	I..LF.YHFLK--	-----	.....	.....
RM1221f/RM1508j	.....	.....	.....	.....	.....	.....	.....	.....
RM1850i	.....	.....	.....	.....M..	I..LF.YHFF---	-----	.....	.....
RM2095n	.....	.....	.....	.....C..	I..LF.YHFF---	-----	.....	.....
RM2227k/RM2229k	.....	.....	.....	.....M..	I..LF.YHFLK--	-----	.....	.....
RM3415f	.....	.....	.....	.....	.....	.....	.....	.....
LIO87d/RM3418d	.....	.....	.....	.....CI..	LN YF.TIFFKM..	Q.YSIFL-	.....	.....
RM3419s	.....	.....	.....	.....	L.....	.....	.....	.....
RM3437q	.....	.....	.....E..	.....M..	V..LI.A..F.KV	-----	.....	.....
RM3441?	Q...L.A...	.....	.....E..	.....	.....	.....	.....	.....