Α	FliG	N-terminal Extension
	EcFliG	MSNLTGTDKSVILLMTIGEDRAAEVFKHLSOREVOTLSAAMANVTOIS 48
	StFliG	MSNLSGTDKSVILLMTIGEDRAAEVFKHLSTREVQALSTAMANVRQIS 48
	CjFliG	-MIKLSEEQKMVYDDLSMPEKVAIFLIQLGEDATTSVFSHMEIDVITEISRYIAMAKNVD 59
	HpFliG	MATKLTPKQKAQLDELSMSEKIAILLIQVGEDTTGEILRHLDIDSITEISKQIVQLNGTD 60
		.:*: .:* .*:*: :*** : .:: *:. : :* :
	EcFliG	NKQLTDVLAEFEQEAEQFAALNINANDYLRSVLVKALGEERAASLLEDILET 100
	StFliG	NKQLTDVLSEFEQEAEQFAALNINANEYLRSVLVKALGEERASSLLEDILET 100
	CjFliG	RSVATAVLEEFYTLLQSNQYIKSGGLEYAKEILFRTFGPEIANKILEKLTK- 110
	HpFliG	KQIGAAVLEEFFAIFQSNQYINTGGLEYARELLTRTLGSEEAKKVMDKLTK- 111
		: ** ** :. :: :* :.:* :::* * * .:::: :

В	FliF	TM domain	C-terminal Cytoplasmic Domain	
	EcFliF	LLAAGRWLLVLLVAWLLW	RKAVRPQLTRRAEAMKAVQQQAQAREEVEDAVEVRLSKDE 50	09
	StFliF	QLLAAGRWLLVLVVAWILW	RKAVRPQLTRRVEEAKAAQEQAQVRQETEEAVEVRLSKDE 51	16
	CjFliF	PFIPPVKYFIAAILLFIFY	KKVIAPFTQKMLEDVAAQEEMQQGPNAVLDDAEDALEKFN 50	00
	HpFliF	LGSFTPLIKYILVFIVLFIFY	KKVIVPFSERMLEVVPDEDKEVKSMFEEMDEEEDELNKLG 50	07
			:*.: * : : : : * *.*	
	Motility Domain			
		Motility Domain	C-terminal Extension	
	EcFliF			52
	EcFliF StFliF	QLQQRRANQRL	n Extension	
		QLQQRRANQRL QLQQRRANQRL	n Extension GAEVMSQRIREMSDNDPRVVALVIRQWINNDH#55	60
	StFliF	QLQQRRANQRL QLQQRRANQRL AARKKVEEQLGFGDNFNEDSI	n Extension GAEVMSQRIREMSDNDPRVVALVIRQWINNDHE 55 GAEVMSQRIREMSDNDPRVVALVIRQWMSNDHE 56	60 60

Figure S1. Alignment of the N-terminal FliG and C-terminal FliF domains from *E. coli, Salmonella, C. jejuni,* and *H. pylori.* (A)

ClustalW alignment of the N-terminal domains of FliG from *E. coli* strain K-12 [BAA15764], *S. typhimurium* strain LT2 [AAL20882], *C. jejuni* 81-176 [EAQ73253], and *H. pylori* strain G27 [ACI27095]. The N-terminal extension present in *C. jejuni* and *H. pylori* FliG is indicated in a box. (B) ClustalW alignment of the C-terminal transmembrane (TM) and cytoplasmic domains of FliF proteins from *E. coli* strain K-12 [YP\_490192], *S. typhimurium* LT2 [AAL20881], *C. jejuni* 81-176 [EAQ73453], and *H. pylori* G27 [ACI27094]. The transmembrane (TM) domain predicted in all proteins is boxed. The domain of *C. jejuni* FliF encompassed by G511-S520 that is required for motility but not signal transduction and the C-terminal extension present in *C. jejuni* FliF are indicated with boxes.