

**Table 3. Sequence homology between various VirB5 homologues**

	TraC	Bs	pIPO2T	pSB102	Xf	Avh5	R388	pSymA	Lp	pWWO	Bh	RP4	VirB5C58
TraC		64 (25)	64 (25)	65 (24.5)	65 (28.8)	62 (21.7)	62 (26.5)	58 (18.4)	53 (17.9)	57 (20.2)	43 (13.9)	49 (10.2)	47 (14.3)
Bs			80 (43.3)	81 (41.5)	64 (25.5)	65 (23.7)	68 (26.7)	59 (21.8)	53 (20.6)	58 (20.8)	41 (10)	48 (10.4)	50 (15.7)
pIPO2T				83 (61.48)	64 (32.2)	62 (26.9)	65 (32.6)	58 (25.2)	56 (19.7)	58 (23)	40 (15.6)	47 (14)	47 (14.2)
pSB102					67 (30.1)	63 (25)	65 (31)	60 (21.9)	51 (16.1)	55 (20.7)	40 (13)	48 (14)	48 (17.4)
Xf						69 (26.6)	64 (25.2)	60 (25)	54 (16.8)	64 (21.9)	40 (14.6)	49 (13.4)	53 (14.4)
Avh5							64 (20.4)	85 (74.3)	55 (18)	63(17.3)	43 (11.3)	46 (11)	51 (15.2)
R388								56 (17.5)	51 (16.5)	64 (17.8)	42 (11.5)	49 (15)	46 (18.3)
pSymA									50 (16.2)	54 (16.3)	46 (12.7)	48.4 (11)	52 (12.7)
Lp										58 (25.7)	40 (12.7)	44 (9.5)	50 (16.1)
pWWO											43 (12.6)	49 (13.4)	51 (14.5)
Bh												40 (8.8)	39 (13)
RP4													49 (12)
VirB5C58													

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TraC		64 (25)	64 (25)	65 (24.5)	65 (28.8)	62 (21.7)	62 (26.5)	58 (18.4)	53 (17.9)	57 (20.2)	43 (13.9)	49 (10.2)	47 (14.3)
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pWWO											43 (12.6)	49 (13.4)	51 (14.5)
Bh												40 (8.8)	39 (13)
RP4													49 (12)
VirB5C58													

The following VirB5 protein sequences were used in the alignment: TraC from plasmid pKM101 (GenBank accession no. AAF40212), VirB5 from *Brucella suis* (Bs) (GenBank accession no. AAD56615), TraF from plasmid pIPO2T (GenBank accession no. NP\_444522), TraF from plasmid pSB102 (GenBank accession no. NP\_361047), conjugal transfer protein from *Xylella fastidiosa* (Xf) (GenBank accession no. NP\_061664), Avh5 from *Agrobacterium tumefaciens* plasmid pAtC58 (GenBank accession no. AAL04063), TrwJ from plasmid R388 (GenBank accession no. CAA57025), VirB5 *Sinorhizobium meliloti* plasmid pSymA (GenBank accession no. NP\_435961), lvhB5 from *Legionella pneumophila* (GenBank accession no. CAB60054), MpfD from *Pseudomonas putida* plasmid pWW0 (GenBank accession no. NP\_542927). 17-kDa antigen from *Bartonella henselae* (GenBank accession no. AAC17453), TrbF from plasmid RP4 (GenBank accession no. AAA26432), and VirB5 from *A. tumefaciens* strain C58 (GenBank accession no. AAL46407).