**Table 2: *Myxococcus xanthus* proteins with homologs identified in *Bdellovibrio bacteriovorus* HD100, *Caulobacter crescentus* CB15 and *Bradymonas sediminis***

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *M. xanthus* locus | Kill system | *Bdellovibrio* locus | Search method | RBH, E-value | *Caulobacter* locus | Search method | RBH, E-value | *Bradymonas* locus | Search method | RBH, E-value |
| MXAN\_RS15050 (MXAN\_3105) | KilA | BD\_RS00540 (Bd0114, hypothetical protein) | operon-BLAST, domain comparison | conserved domain architecture | CC\_2947 (pilus assembly protein CpaA) | Proteome-BLAST | remote homology, paralog, 9.8 / 9.4 | DN745\_18205 (hypothetical protein) ⇔ prepilin peptidase | Proteome-BLAST | ortholog, 4e-8/1e-7 |
| MXAN\_RS15055 (MXAN\_3106) | KilC | BD\_RS00530 (Bd0112, BON domain-containing protein (Flp pilus assembly protein secretin CpaC)) | Proteome-BLAST | paralog, 1e-18 / 4e-19 | CC\_2945 (pilus assembly protein CpaC) | Proteome-BLAST | ortholog, 1e-27 / 1e-28 | DN745\_00685  (Flp pilus assembly secretin CpaC) | Proteome-BLAST | ortholog,8e-19/7e-31 |
| MXAN\_RS15060 (MXAN\_3107) | KilF | BD\_RS00525 (Bd0111, P-loop NTPase (Flp pilus assembly protein ATPase CpaF)) | Proteome-BLAST | ortholog, 1e-152 / 2e-160 | CC\_2942 (pilus assembly protein CpaF) | Proteome- BLAST | ortholog, 7e-130 / 9e-140 | DN745\_00690 ⇔ Flp pilus assembly complex ATPase component TadA | Proteome- BLAST | ortholog, 5e-153/3e-143 |
| MXAN\_RS15065 (MXAN\_3108) | KilD |  |  |  |  |  |  |  |  |  |
| MXAN\_RS22575 (MXAN\_4650) | KilH | BD\_RS02160 (Bd0470, type II secretion system F family protein) | Proteome-BLAST | ortholog, 3e-45 / 8e-45 | CC\_2940 (hypothetical protein) | Proteome-BLAST | ortholog, 1e-23 / 4e-24 | DN745\_00700 (hypothetical  | operon-BLAST | 1e-31 |
| MXAN\_RS22580 (MXAN\_4651) | KilG | BD\_RS00520 (Bd0110, Flp pilus assembly protein TadB) | Proteome-BLAST | ortholog, 1e-40 / 4e-41 | CC\_2941 (hypothetical protein) | Proteome-BLAST | ortholog, 2e-23 / 8e-23 | DN745\_00695 ( hypothetical  | operon-BLAST | 1e-42 |
| MXAN\_RS22585 (MXAN\_4652) | KilB | BD\_RS00535 (Bd0113, Flp pilus assembly protein CpaB) | Proteome-BLAST | ortholog, 2e-10 / 1e-11 | CC\_2946 (pilus assembly protein CpaB) | Proteome-BLAST | ortholog, 9e-08 / 2e-07  | DN745\_00680 (Flp pilus assembly protein CpaB) | Proteome-BLAST | ortholog, 3e-22/1e-20 |
| MXAN\_RS22600 (MXAN\_4655) | KilK | BD\_RS00550 (Bd0117); BD\_RS00560 (Bd0119);  | operon- BLAST | remote homologypotential flp-protein |  |  |  |  |  |  |
| MXAN\_RS22615 (MXAN\_4658) | KilL | BD\_RS00545 (Bd0115, hypothetical protein) | operon-BLAST; HHPRED | remote homology, 3.6e-6 | CC\_2951 (hypothetical protein) | Proteome-BLAST | remote homology, uni-directional, 10.0 |  |  |  |
| MXAN\_RS22625 (MXAN\_4660) | KilM | BD\_RS00545 (Bd0115, hypothetical protein) | HHPRED | remote homology1.9e-12 |  |  |  | DN745\_18665   (TadE-like protein) | Proteome- BLAST | ortholog, 1e-3/3e-3 |