

**Table 4: Listing and Characteristics of *Chlamydomophila*-specific proteins
Griffiths , E., Ventresca, M.S. and Gupta, R.S. (2006) *BMC Genomics*, 7:14.**

| Protein Loci | Protein Name/Size | C. cav | C. abo | C. pne | Next Best Hit |
|---------------------|-----------------------------------|--------|---------------|---------------|---|
| CCA00062 (AAP04814) | YwbM, 463aa | 0 | 6e-113, 501aa | 1e-14, 382aa | <i>Aspergillus nidulans</i> (0.56, 182aa) |
| CCA00177 (AAP04928) | hypoth, 367aa | 0 | 1e-146, 370aa | 7e-35, 366aa | <i>Tetraodon nigroviridis</i> (2.7, 659aa) |
| CCA00189 (AAP04940) | hypoth, 316aa | 0 | 2e-111, 316aa | 3e-60, 312aa | <i>Novosphingobium aromaticivorans</i> (0.010, 331aa) |
| CCA00222 (AAP04973) | put. mb. protein , 123aa | 1e-55 | 6e-22, 113aa | 3e-05, 110aa | <i>Campellolebias dorsimaculatus</i> , (0.04, 348aa) |
| CCA00246 (AAP04997) | put. lipoprotein, 313aa | 0 | 6e-158, 314aa | 3e-96, 317aa | No other BLAST hits |
| CCA00261 (AAP05012) | put. mb. protein, 1044aa | 0 | 0, 1105aa | 3e-64, 1033aa | <i>Capsicum annuum</i> (0.18, 576aa) |
| CCA00296 (AAP05045) | hypoth, 448aa | 0 | 4e-74, 442aa | 2e-35, 445aa | <i>Ralstonia eutropha</i> (1.6, 556aa) |
| CCA00299 (AAP05048) | hypoth, 288aa | 5e-146 | 4e-96, 288aa | 3e-45, 289aa | <i>Neurospora crassa</i> (1.4 , 541aa) |
| CCA00352 (AAP05100) | hypoth, 197aa | 3e-95 | 2e-60, 204aa | 5e-12, 212aa | <i>Cryptophlebia leucotreta</i> (0.016, 395aa) |
| CCA00353 (AAP05101) | hypoth, 186aa | 3e-85 | 3e-60, 205aa | 1e-11, 175aa | <i>Mus musculus</i> (0.12, 718aa) |
| CCA00360 (AAP05108) | put. inner mb. protein, 97aa | 4e-47 | 4e-28, 104aa | 1e-04, 101aa | <i>Arabidopsis thaliana</i> (0.58, 513aa) |
| CCA00361 (AAP05109) | put. inner mb. protein,, 110aa | 4e-57 | 2e-42, 110aa | 0.014, 111aa | <i>Bacillus licheniformis</i> (1.3, 416aa) |
| CCA00434 (AAP05180) | put. inner mb. protein, 451aa | 0 | 4e-125, 435aa | 6e-34, 424aa | other <i>Chlamydomophila</i> hits <i>Apis mellifera</i> (0.93, 1500aa) |
| CCA00497 (AAP05241) | hypoth, 471aa | 0 | 3e-173, 471aa | 1e-55, 515aa | <i>Trophyrema whipplei</i> (2.9, 735aa) |
| CCA00530 (AAP05273) | hypoth, 424aa | 0 | 1e-32, 435aa | 6e-26, 435aa | <i>Fusobacterium nucleatum</i> (3.2 , 448aa) |
| CCA00575 (AAP05317) | put. lipoprotein, 294aa | 3e-165 | 1e-97, 277aa | 3e-59, 284aa | <i>Wolinella. succinogenes</i> (2.5, 329aa) |
| CCA00576 (AAP05318) | hypoth 170aa | 7e-88 | 1e-43, 155aa | 2e-18, 164aa | <i>Melanoplus sanguinipes</i> (0.36, 254aa) |
| CCA00578 (AAP05320) | put. lipoprotein, 280aa | 1e-160 | 7e-08, 277aa | 2e-05, 284aa | <i>Plasmodium falciparum</i> (1.3, 294aa) |
| CCA00621 (AAP05363) | PTMP, 108aa | 3e-54 | 2e-33, 108aa | 4e-09, 161aa | <i>Agrobacterium tumefaciens</i> (0.34 , 279aa) |
| CCA00738 (AAP05479) | lipoprotein, 95aa | 5e-35 | 3e-15, 99aa | 0.003, 99aa | <i>Mycobacterium leprae</i> (8.5, 574aa) |

These proteins are uniquely found in species belonging to *Chlamydomophila* genus but they are absent in various *Chlamydia* and *Protochlamydia* species as well as all other groups of bacteria. Abbreviations: put. inner mb., putative inner membrane protein, PTMP, putative transmembrane protein.