

Table 6: Stage-specific Expression of some of Chlamydiae-specific Proteins
Griffiths , E., Ventresca, M.S. and Gupta, R.S. (2006) BMC Genomics, 7:14.

Stage of Expression	<i>Chlamydiales</i> -specific Proteins	<i>Chlamydiaceae</i> -specific Proteins	<i>Chlamydia</i> -specific Proteins	Lost or Transferred Genes
I-Early (6-24 hpi)		CT233		
II-Midlate (12-24 hpi)	CT053 CT635 CT066 CT666 CT273 CT667 CT504 CT670 CT590 CT734	CT289 CT671 CT372 CT870 CT377 CT871 CT413 CT872 CT618 CT874 CT668	CT360	CT550
III-Midlate (18-24 hpi)		CT142 CT143 CT681 CT713		CT049 CT051
IV-Late (24-36 hpi)	CT016 CT017 CT181 CT443 CT546	CT005 CT552 CT046 CT565 CT080 CT578 CT082 CT579 CT083 CT620 CT147 CT695 CT288 CT712 CT365 CT848 CT392 CT869 CT44 CT444	CT249 CT694	CT050 CT214 CT702 CT868

The temporal expression patterns of these proteins is based upon the microarray analysis of Nicholson et al [63]. According to the microarray profiles, significant differences were seen in the expression pattern of genes for these proteins at 4 different time points (6-24 hours post infection, 12-24 h.p.i., 18-24 h.p.i., and 24-36 h.p.i.) which correspond to different phases of the chlamydial developmental cycle where key phenotypic changes take place. It is of interest that the majority of the temporally regulated *Chlamydiales* and *Chlamydiaceae*-specific genes are expressed between 12-24 h.p.i. and 24-36 h.p.i. . Such coordinate regulation suggests they play essential roles during these phases of the chlamydial cell cycle. Other chlamydiae-specific proteins which are not listed in this Table were not found to show significant differences in their temporal expressed in the study by Nicholson et al. [63]. Abbreviation; h.p.i., hours post infection.