

1 **Supplemental data**

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3 **Application of a *C. trachomatis* expression system to identify *C. pneumoniae***
4 **proteins translocated into host cells**

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10 **Supplementary Figure 1 Map of the pEAS7-gateway plasmid**

11 This plasmid is based on plasmid pSW2 from *C. trachomatis* SW2 (grey). The
12 β -lactamase (*bla*), attB1-attB2 gateway region, Myc-tag and GSK3 β -tag gene are
13 as indicated.

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15 **Supplementary Figure 2 *C. pneumoniae* proteins that do not colocalize with**
16 **canonical organelle markers in HeLa cells**

17 CPj0499-HA **(A)**, CPj0268-HA **(B)**, CPj0131-HA **(C)**, CPj0980-HA **(D)** or
18 CPj0034-HA **(E)** was transfected in HeLa cells. Images were obtained by ZEISS
19 LSM880 microscopy.

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22 **Table 1 *C. pneumoniae* proteins expressed in *C. trachomatis***

23 *C. pneumoniae* ORF designation, predicted molecular weight (kDa), results of
24 immunoblotting with anti-GSK3 β or phosphoGSK3 β antibodies, predicted T3S
25 signal (+/-), putative Inc protein, transmembrane segments, any known function or
26 localization, *C. trachomatis* ortholog, and results of secretion analysis in other
27 species. The *C. pneumoniae* proteins in bold are those positive for phosphoGSK3 β ,
28 no *C. trachomatis* ortholog and their function are unknown. Localization of these
29 proteins were highlighted in Fig. 3. The subcellular localization of CPj0011-HA,
30 CPj0043-HA, CPj0157-HA, Cpj0164-HA, Cpj0166-HA, Cpj0169-HA, Cpj0174-HA,
31 CPj0215-HA, CPj0220-HA, CPj0243-HA, CPj0354-HA, CPj0431-HA, CPj0440-HA,
32 CPj0562-HA, CPj0830-HA, CPj0928-HA, and CPj0929-HA could not be
33 unambiguously determined based on the organelle markers used.

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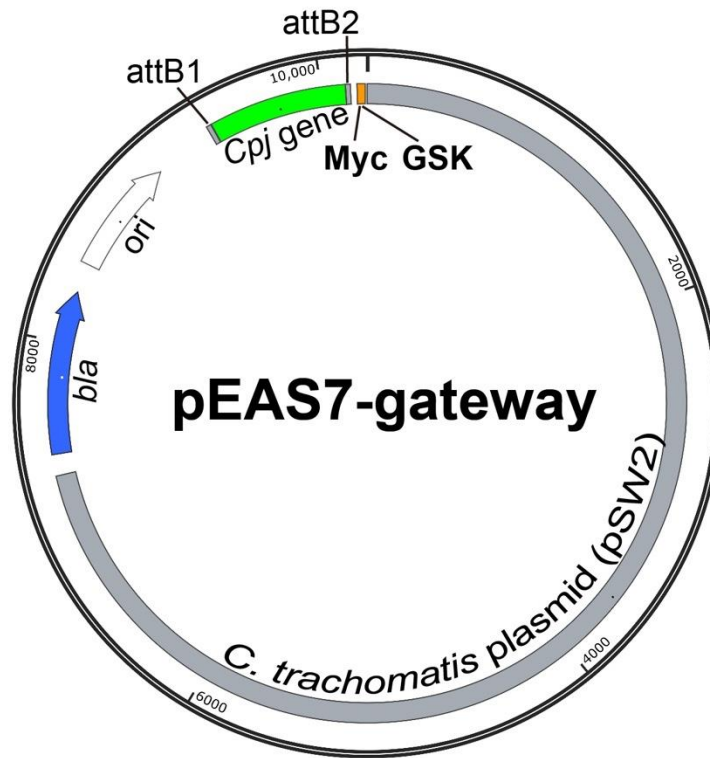
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supplemental Figure 1 *Chlamydia* expression plasmid



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supFigure 2

