

Protein (annotation/name)			Secretion pathway; host cell protein targets; localization in infected host cells; and proposed function(s) and/or activity	References
Strain D/UW3	Strain L2/434	General		
CT042	CTL0298	GlgX	<i>Secretion</i> : T3S; <i>targets</i> : N/A; <i>localization</i> : inclusion lumen and membrane; <i>function</i> : glycogen hydrolase.	[289]
CT049	CTL0305	Pls1	<i>Secretion</i> : unknown but T3S-independent; <i>targets</i> : unknown; <i>localization</i> : inclusion lumen; <i>function</i> : unknown.	[293]
CT050	CTL0306	Pls2	<i>Secretion</i> : unknown but T3S-independent; <i>targets</i> : unknown; <i>localization</i> : inclusion lumen; <i>function</i> : unknown.	[293]
CT089	CTL0344	CopN	<i>Secretion</i> : T3S; <i>targets</i> : unknown; <i>localization</i> : inclusion membrane; <i>function</i> : regulation of the T3S system.	[23, 50]
CT105	CTL0360	CteG	<i>Secretion</i> : T3S; <i>targets</i> : unknown; <i>localization</i> : Golgi and host cell plasma membrane; <i>function</i> : modulation of eukaryotic vesicular trafficking.	[227, 228]
CT142	CTL0397	-	<i>Secretion</i> : T3S; <i>targets</i> : unknown; <i>localization</i> : inclusion lumen; <i>function</i> : unknown.	[227, 294]
CT143	CTL0398	-	<i>Secretion</i> : T3S; <i>targets</i> : unknown; <i>localization</i> : inclusion lumen; <i>function</i> : possible involvement in inflammatory processes.	[227, 292, 294-296]
CT144	CTL0399	-	<i>Secretion</i> : T3S; <i>targets</i> : unknown; <i>localization</i> : inclusion lumen; <i>function</i> : unknown.	[227, 294, 295]
CT156	Absent	Lda1	<i>Secretion</i> : unknown; <i>targets</i> : unknown; <i>localization</i> : around the inclusion, overlapping with LD-like structures; <i>function</i> : targeting LDs.	[54, 219]
CT163	CTL0419	Lda2	<i>Secretion</i> : unknown; <i>targets</i> : unknown; <i>localization</i> : around the inclusion, overlapping with LD-like structures, and within LD biochemical fractions; <i>function</i> : targeting LDs.	[54, 219]
CT311	CTL0563	-	<i>Secretion</i> : Sec-dependent/T2S; <i>targets</i> : unknown; <i>localization</i> : inclusion lumen, cytosol and nucleus; <i>function</i> : unknown.	[32, 279]
CT456	CTL0716	TarP	<i>Secretion</i> : T3S; <i>targets</i> : actin, ABI1, VAV2, PI3K p85 subunit, SHC1; <i>localization</i> : cytosol, near the nascent inclusion, and membrane fractions of infected cells; <i>function</i> : actin nucleator; modulation of actin-mediated changes involved in host cell invasion, and of host cell survival.	[158, 170, 175-178, 186, 190]
CT473	CTL0734	Lda3	<i>Secretion</i> : unknown; <i>targets</i> : unknown; <i>localization</i> : around the inclusion, overlapping with LD-like structures; <i>function</i> : targeting and modulation of LDs.	[54, 219, 220]
CT529	CTL0791	Cap1	<i>Secretion</i> : T3S; <i>targets</i> : unknown; <i>localization</i> : inclusion membrane; <i>function</i> : associates with LDs.	[50, 63, 221, 280]
CT620	CTL0884	-	<i>Secretion</i> : T3S; <i>targets</i> : Hrs/ESCRT machinery; <i>localization</i> : inclusion lumen, cytosol and nucleus; <i>function</i> : unknown.	[212, 214]
CT621	CTL0885	-	<i>Secretion</i> : T3S; <i>targets</i> : Hrs/ESCRT machinery; <i>localization</i> : inclusion lumen, cytosol and nucleus; <i>function</i> : unknown.	[212-214]
CT622	CTL0886	-	<i>Secretion</i> : T3S; <i>targets</i> : unknown; <i>localization</i> : inclusion lumen and cytosol; <i>function</i> : involved in bacterial infectivity and growth; structural similarities with GGases and synthases.	[200, 201]
CT694	CTL0063	TmeA	<i>Secretion</i> : T3S; <i>targets</i> : AHNAK; <i>localization</i> : cytosol, near the nascent inclusion, and host cell plasma membrane; <i>function</i> : involved in host cell invasion.	[185, 186, 189-191]
CT695	CTL0064	TmeB	<i>Secretion</i> : T3S; <i>targets</i> : unknown; <i>localization</i> : cytosol, near the nascent inclusion, and inclusion membrane; <i>function</i> : unknown.	[185, 186]
CT711	CTL0080	-	<i>Secretion</i> : T3S; <i>targets</i> : Hrs/ESCRT machinery; <i>localization</i> : nucleus; <i>function</i> : unknown.	[212, 214]
CT737	CTL0106	NUE	<i>Secretion</i> : T3S; <i>targets</i> : histones H2B, H3 and H4; <i>localization</i> : nucleus; <i>function</i> : histone methyltransferase.	[226]
CT795	CTL0164	-	<i>Secretion</i> : Sec-dependent/T2S; <i>targets</i> : unknown; <i>localization</i> : inclusion lumen and cytosol; <i>function</i> : unknown.	[278]
CT798	CTL0167	GlgA	<i>Secretion</i> : T3S; <i>targets</i> : N/A; <i>localization</i> : inclusion lumen and cytosol; <i>function</i> : glycogen synthase.	[288]

CT806	CTL0175	Ptr	<u>Secretion</u> : Sec-dependent/T2S; <u>targets</u> : N/A; <u>localization</u> : inclusion lumen; <u>function</u> : putative protease involved in recovery of <i>C. trachomatis</i> from IFN $\gamma$ -induced stress.	[292]
CT823	CTL0195	HtrA	<u>Secretion</u> : Sec-dependent/T2S; <u>targets</u> : unknown; <u>localization</u> : inclusion lumen and cytosol; <u>function</u> : serine protease with roles in the chlamydial periplasm, but unknown function in the host cell cytosol.	[261, 262]
CT858	CTL0233	CPAF	<u>Secretion</u> : Sec-dependent/T2S; <u>targets</u> : several, but many shown to be experimental artifacts; <u>localization</u> : inclusion lumen and cytosol; <u>function</u> : promotion of chlamydial survival in the mouse lower genital tract; evasion of innate immune responses; chlamydial lytic exit; inhibition of host cell cytokinesis; inhibition of p65 nuclear translocation (based on phenotypes displayed by <i>cpaf</i> mutant <i>C. trachomatis</i> ).	[231, 232, 234-237, 240, 241, 245, 248, 250-252, 255]
CT867	CTL0246	ChlaDUB2 /Cdu2	<u>Secretion</u> : unknown; <u>targets</u> : unknown; <u>localization</u> : inclusion membrane and host cell plasma membrane; <u>function</u> : DUB and deneddylase activities; contributes to Golgi redistribution around the inclusion.	[189, 204, 206]
CT868	CTL0247	ChlaDUB1/ Cdu1	<u>Secretion</u> : unknown; <u>targets</u> : MCL1, I $\kappa$ B $\alpha$ ; <u>localization</u> : inclusion membrane; <u>function</u> : DUB, deneddylase and acetyl transferase activities; contributes to Golgi redistribution around the inclusion; inhibition of NF- $\kappa$ B signalling and of host cell death.	[11, 189, 204, 206, 209]
CT875	CTL0255	TepP	<u>Secretion</u> : T3S; <u>targets</u> : CRK, CRKL, PI3K subunits, and GSK3B; <u>localization</u> : cytosol, near the early vacuole; <u>function</u> : modulation of host gene expression related with immune signalling in early stages of infection.	[195, 196]
pGP3/pORF5			<u>Secretion</u> : unknown; <u>targets</u> : cathelicidin LL-37 (antimicrobial peptide); <u>localization</u> : inclusion lumen and cytosol; <u>function</u> : neutralization of the LL-37 activity, evasion of the acidic barrier in the vagina, modulation of inflammatory responses, inhibition of host cell apoptosis.	[268, 274-277]