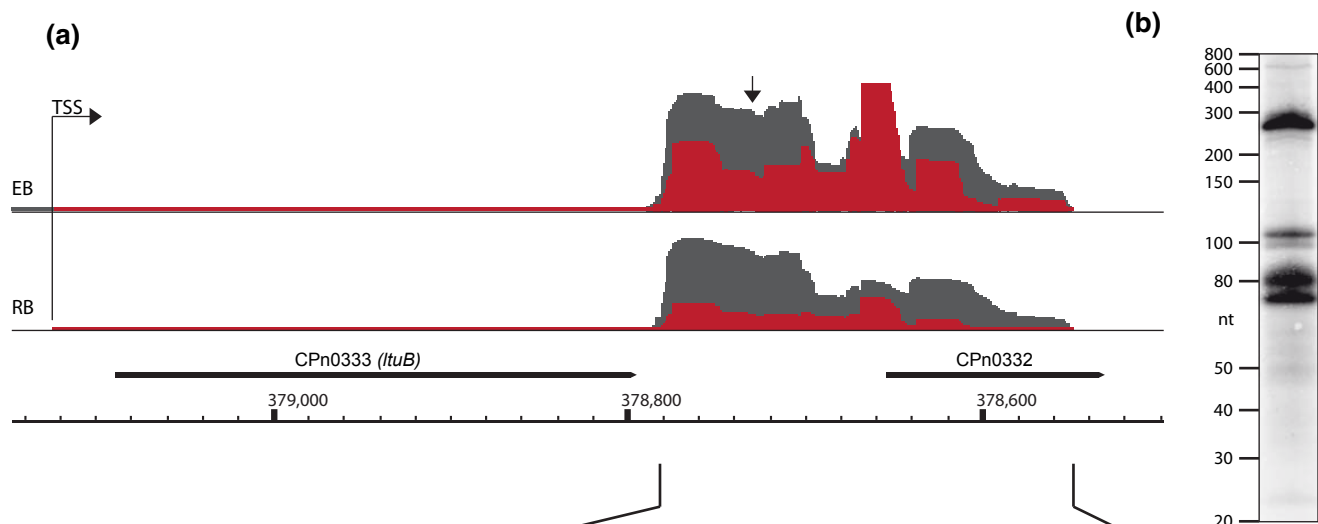




(c) Multiple sequence alignment of the CPn0333 (*ItuB*) gene across five species: *C. pneumoniae*, *C. caviae*, *C. abortus*, *C. felis*, and *C. trachomatis* B and L2 strains. The alignment is shown in three segments: 1-90, 91-180, and 181-248.

Species	1-90	91-180	181-248
<i>C. pneumoniae</i>	ATTAATAAAAA AATCGCAGAA CGGGACTATC CCGTGATGGA ACGACAGGAA GCCTGGG -TA ATTAATTTAG AGTTAGGAAC TGTCTCGGTA	TTAAGATCTC CAAAATCT TA ATAC--CTAG ACAGTCGGAT CCGAGTGCATC CCTCTAGCTC GACAGCGATG CACTTT GTTG CATCTACTCG	CTGTT----- CTCTGTCCCT CCATAAGT-- TTTTTT ACGC AAGGTGTTTC --ACCTTGCG TTTTTTTT
<i>C. caviae</i>	GCTAATAAAA ACTTGCAG AA CGGGA CAAAC CCGTAAT AAG GTTGT GGGTA GTCTGGG CTA ATTTTT -GCG CTC CAGAAGC TGCCGCAATA	TTAAGATCTC CACAATCT TA ATATTGCTGG ACAGTTTGGT ACGAGTACCT CATCTGGAAC GACAGCGATG CACTTT CTTG CATTTACCGG	CTCTT--TTT CCCTCTCCCT TTATTTTTAA GTTTTT TCGC AAGGTGCGC C-ACCTTGCG TTTTTTTT
<i>C. abortus</i>	GCTAATAAAA ACTTGCAG AA CGGGA CAAAC CCGTGAT TAA GGATA GGGTG GCCTGGG CTA ATTTAT -GCG CTC CAGAAGC TGTAGCAATA	TTAAGATCTC CACAATCT GA ATATTGCTAG ACAGTTTGGT AGAATTAACCT -GCTGGAAC GATAGCGATG CACTTT CTTG CATCTACCCG	CTCTT--TTT CCCTCTCCCT TATCTTTAG GTTTTT TCGC AAGGTGTTAC CCACCTTGCG TTTTTTTT
<i>C. felis</i>	GCTAA-AAAA ACTTGCAG AA CGGGA CAAAC CCGTAAT AAG GGTGT GGATG GCCTGGG CTA ATTTTTAGCG TTC CAGAAGC TGTGGCAATA	T-AAGATCTC CACAATCT TA ATATTGCTGT ATAGTTTGGT ACGAATAACCT -GCTGAGAC GATAGCGATG CACTTT CTTG CATCTACCCG	CT-TT--TTT CCCT-TCCCC TTATCCT-AG TTTTTT TCGC AAGGTGCGC C-ACCTTGCG TTTTTTTT
<i>C. trachomatis</i> B	TCAAAATAAAA AACTAATAAG TGGGA TTAAC CCAAAAT GGA AAGACG GGGGA GCCTGGG TGT ATATATTG -G TCTCAAAGAC CGCCCAAGTAA	TAAAGATCTC CAAAATCT TT ATCA--CTGA GCGGTTAGGC ATGAGTGCCT GCT-TGGGGC TACAGAGATG CACTTT ATTG CATCTACCCG	CTTTTCTTTT CCGTCTAACC TATTTTTTGG TTTTTT TCGC AAGG CCCATA --GCCTTGCG TTTTTTTT
<i>C. trachomatis</i> L2	TCAAAATAAAA AACTAATAAG TGGGA TTAAC CCAAAAT GGA AAGACG GGGGA GCCTGGG TGT ATATATTG -G TCTCAAAGAC CGCCCAAGTAA	CTTTTCTTTT CCGTCTAACC TATTTTTTGG TTTTTT TCGC AAGG CCCAGA --GCCTTGCG TTTTTTTT	CTTTTCTTTT CCGTCTAACC TATTTTTTGG TTTTTT TCGC AAGG CCCAGA --GCCTTGCG TTTTTTTT

