

**Additional Table 2.** Similarity matrix for *groESL* sequences of selected ehrlichiae

Levels of similarity (1-distance) were determined by maximum-likelihood distance using DNADIST (PHYLIP) with transition/transversion ratio set at 5.2 (Ina, 1998) and are expressed as percentages. Pair-wise distances were calculated using the PAUP\* software (HKY85 model using empirical estimation of the transition/transversion ratio, 1.61).

Taxon (host origin)	Accession no	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1. <i>Anaplasma marginale</i>	AF165812																			
2. <i>Ehrlichia equi</i> CASOLJ	AF172158	74.2																		
3. <i>Ehrlichia</i> sp. HGE agent (New York)	U96728	74.2	99.7																	
4. <i>Ehrlichia</i> sp. HGE agent CAHU-HGE2	AF172159	74.2	99.8	99.9																
5. <i>Ehrlichia equi</i> CAMAWI	AF172160	74.2	99.8	99.9	100															
6. <i>Ehrlichia equi</i> CASITL	AF172162	74.2	99.8	99.9	100	100														
7. <i>Ehrlichia</i> sp. HGE agent CAHU-HGE1	AF172163	74.2	99.8	99.9	100	100	100													
8. <i>Ehrlichia equi</i> California horse	U96727	74.2	99.8	99.9	100	100	100	100												
9. <i>Ehrlichia phagocytophila</i> Old Sourhope	U96730	74.0	98.8	98.9	99.0	99.0	99.0	99.0	99.0											
10. <i>Ehrlichia phagocytophila</i> feral goat	U96729	74.0	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.4										
11. <i>Ehrlichia phagocytophila</i> Swiss horse	U96735	74.0	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.4	99.3									
12. <i>Ehrlichia</i> sp. HGE agent (Slovenia)	AF033101	73.9	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.5	99.3	99.9								
13. <i>Ehrlichia canis</i> Florida	U96731	62.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.9	71.7	71.7	71.7							
14. <i>Ehrlichia chaffeensis</i> Arkansas <sup>T</sup>	L10917	63.9	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.6	71.6	71.4	71.4	92.1						
15. <i>Cowdria ruminantium</i> Welgevonden <sup>T</sup>	U13638	62.9	69.7	69.8	69.8	69.8	69.8	69.8	69.8	70.0	69.8	70.0	70.0	86.7	87.0					
16. <i>Wolbachia</i> sp. (cricket)	AB002286	55.8	63.2	63.6	63.6	63.6	63.6	63.6	63.6	63.1	63.7	62.8	62.9	63.9	63.0	64.0				
17. <i>Ehrlichia risticii</i> Illinois <sup>T</sup>	U96732	39.6	42.8	43.2	43.0	43.0	43.0	43.0	43.0	42.9	42.5	43.6	43.4	44.2	44.8	42.2	44.6			
18. <i>Ehrlichia risticii</i> 90<-->12	U24396	39.7	42.2	42.6	42.4	42.4	42.4	42.4	42.4	42.0	43.0	42.8	43.9	44.0	42.0	43.9	99.1			
19. <i>Ehrlichia sennetsu</i> Japan	U88092	41.3	42.8	43.2	43.0	43.0	43.0	43.0	43.0	43.0	42.6	43.6	43.4	46.0	46.0	43.8	44.1	95.2	94.4	
20. <i>Bartonella bacilliformis</i> ATCC 35685	M98257	35.7	40.4	40.9	40.6	40.6	40.6	40.6	40.6	41.1	40.6	41.1	41.1	45.3	46.1	44.2	46.5	45.4	44.4	45.2
21. <i>Escherichia coli</i>	X07850	32.8	28.2	28.5	28.5	28.5	28.5	28.5	28.5	27.5	28.2	28.3	28.2	33.7	33.3	29.7	34.6	35.5	34.5	37.4
22. <i>Rickettsia typhi</i> Wilmington <sup>T</sup>	AF075440	32.2	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.5	38.5	37.8	37.8	45.2	46.4	49.1	45.4	46.2	45.2	46.1
23. <i>Rickettsia prowazekii</i> Madrid E	AJ235272	31.6	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.1	38.1	37.4	37.4	46.0	46.6	50.7	48.0	44.2	42.9	44.0
24. <i>Rickettsia rickettsii</i> R	U96733	31.1	37.5	37.5	37.4	37.4	37.4	37.4	37.4	37.7	37.5	37.0	37.0	45.6	46.6	50.2	44.7	44.7	43.7	44.8
25. <i>Orientia tsutsugamushi</i> Karp	M31887	29.2	35.6	35.8	35.8	35.8	35.8	35.8	35.8	36.7	35.6	36.0	36.1	47.5	46.9	44.3	38.4	34.3	32.9	33.0
26. <i>Buchnera aphidicola</i> (aphid)	AF008210	28.6	35.9	35.9	36.2	36.2	36.2	36.2	36.2	36.0	35.7	35.5	35.7	47.1	48.6	46.9	39.0	36.5	35.6	37.6
27. <i>Chlamydia trachomatis</i> D/UW-3/CX	AE001285	24.2	25.2	25.1	25.1	25.1	25.1	25.1	25.1	25.7	25.1	25.1	25.4	37.2	39.9	36.8	31.7	38.1	37.0	38.1