

	1	2	3	4	5
1 M31887_Karp	-	1668	1668	1668	1668
2 LYMA02000027_Karp	0	-	1668	1668	1668
3 LANM01000016_Karp	0	0	-	1668	1668
4 LS398548_Karp	0	0	0	-	1668
5 SRX1761260_Karp	0	0	0	0	-

	1	2	3	4
1 AY191585_Gilliam	-			
2 LANO01000026_Gilliam	0	-		
3 LS398551_Gilliam	0	1	-	
4 SRX1761334_Gilliam	0	1	0	-

	1	2	3	4	5
1 AY191586_Kato	-	546	546	546	546
2 JX188393_Kato_GroESL	2	-	1668	1668	1668
3 LANN01000021_Kato	2	0	-	1668	1668
4 LS398550_Kato	2	0	0	-	1668
5 SRX1761385_kato	2	0	0	0	-

	pre-genome x pre-genome
	pre-genome x genome
	genome x genome

Supplemental Table 3. Comparison among duplicate sequences of GroEL chaperonin gene between prototype strains. Above diagonal = length of sequence comparison; below diagonal = number of nucleotide differences between paired sequences.

	1	2	3	4
1 AY191585_Gilliam	-			
2 LANO01000026_Gilliam	0	-		
3 LS398551_Gilliam	0	1	-	
4 SRX1761334_Gilliam	0	1	0	-

	1	2	3	4	5
1 M31887_Karp	-	1668	1668	1668	1668
2 LYMA02000027_Karp	0	-	1668	1668	1668
3 LANM01000016_Karp	0	0	-	1668	1668
4 LS398548_Karp	0	0	0	-	1668
5 SRX1761260_Karp	0	0	0	0	-

	1	2	3	4	5
1 AY191586_Kato	-	546	546	546	546
2 JX188393_Kato_GroESL	2	-	1668	1668	1668
3 LANN01000021_Kato	2	0	-	1668	1668
4 LS398550_Kato	2	0	0	-	1668
5 SRX1761385_kato	2	0	0	0	-

pre-genome x pre-genome

pre-genome x genome

genome x genome

Supplementary Table 3. Pairwise comparisons of 60-kD GroEL gene sequences of *Orientia tsutsugamushi* prototype strains Gilliam, Karp, and Kato maintained in separate laboratories, including gene sequences published in the early 1990's (pre-genome) and complete or near-complete genome sequences (genome).