

Table 3. CDSs containing large (>5 bp) tandem repeats in the genome of *Ehrlichia ruminantium*

Systematic gene id (gene name)	Length of gene, bp	Length of repeated sequence motif, bp	Frequency of repeat	Putative product
Erum0250	1374	99	8.4	unknown
Erum0260 (<i>virD4</i>)	2406	6	5	type IV secretion system protein VirD4
Erum0280 (<i>virB10</i>)	1347	6	9	type IV secretion system protein VirB10
Erum0660	11148	300 471 171 171	2.6 2.7 2.4 2.4	unknown
Erum1040	3498	294	2.8	probable integral membrane protein
Erum1110	1986	12 27	2.5 56.0	unknown
Erum1230	561	237	2.4	unknown
Erum1430	2856	198	2.3	unknown
Erum2090 (probable <i>ftsK</i>)	2568	15	11.6	putative cell division protein FstK
Erum2170	3222	126	5.1	unknown
Erum2400	1176	90	2	probable membrane protein
Erum2780	1575	21	2	probable membrane protein
Erum3570	1131	12	3.2	probable integral membrane protein
Erum3590	1170	45 42	7.4 2.1	probable integral membrane protein
Erum3600	1758	6	19.3	probable integral membrane protein
Erum3730	462	27	2.2	unknown
Erum3750	5025	27 144	8.3 3.9	unknown, contains 19 ankyrin repeat domains
Erum3980	9009	144 36 93	2.7 2.7 9.2	unknown, contains 7 ankyrin repeat domains
Erum4220 (<i>lysS</i>)	1539	21	2	lysyl-tRNA synthetase
Erum4530	600	22	2	unknown
Erum4740	1920	138	6.9	probable exported protein
Erum4850	1023	9	3	conserved hypothetical GTP-binding protein

Systematic gene id (gene name)	Length of gene, bp	Length of repeated sequence motif, bp	Frequency of repeat	Putative product
Erum5010	1695	24	2.1	probable exported protein
Erum5030 (<i>petB</i>)	1227	20	2	cytochrome b
Erum5210	7368	261 222 180	5.1 3.9 1.9	putative type IV secretion system protein
Erum5220	4590	216 15	2.4 2.3	putative type IV secretion system protein
Erum5570	1659	183	3	unknown
Erum7070	4122	141 198	3.9 5.2	probable membrane protein
Erum7960	2208	15	2.7	unknown, contains a GTP-binding domain
Erum8590	930	6	3.7	putative outer membrane protein MAP1-14
Erum8770	534	9	11.6	unknown