

**Table S1 Identity comparisons of nucleotide sequence of *Bartonella* *ssrA* gene (301 bp) from small mammals in this study**

	HQ35	HQ4	HQ9	HQ18	HQ25	HQ32	HQ34	HQ38	HQ55	HQ66	HQ73	HQ72	HQ77	HQ80	HQ92	HQ96	HQ76	HQ99	GS183	GS97	GS43	GS60	GS164	GS40	GS39	GS29	GS35	GS37	GS55	GS167	1	2	3	4	5	6	7	8	9	10	11	12				
HQ35	100.0																																													
HQ4	98.9	100.0																																												
HQ9	93.1	92.1	100.0																																											
HQ18	96.2	95.2	91.5	100.0																																										
HQ25	100.0	98.9	93.1	96.2	100.0																																									
HQ32	99.5	98.4	92.6	95.7	99.5	100.0																																								
HQ34	100.0	98.9	93.1	96.2	100.0	99.5	100.0																																							
HQ38	38.2	38.2	37.1	38.2	38.2	38.2	38.2	100.0																																						
HQ55	95.2	94.1	90.5	97.9	95.2	94.6	95.2	38.2	100.0																																					
HQ66	39.8	40.3	39.7	41.4	39.8	39.8	39.8	88.3	41.4	100.0																																				
HQ73	38.2	38.2	37.1	38.2	38.2	38.2	38.2	100.0	38.2	88.3	100.0																																			
HQ72	38.2	38.2	37.1	38.2	38.2	38.2	38.2	100.0	38.2	88.3	100.0	100.0																																		
HQ77	38.2	38.2	37.1	38.2	38.2	38.2	38.2	99.5	38.2	87.8	99.5	99.5	100.0																																	
HQ80	100.0	98.9	93.1	96.2	100.0	99.5	100.0	38.2	95.2	39.8	38.2	38.2	38.2	100.0																																
HQ92	39.8	40.3	39.7	41.4	39.8	39.8	39.8	88.8	41.4	99.5	88.8	88.8	88.3	39.8	100.0																															
HQ96	38.2	38.2	37.1	38.2	38.2	38.2	38.2	100.0	38.2	88.3	100.0	100.0	99.5	38.2	88.8	100.0																														
HQ76	38.2	38.2	37.1	38.2	38.2	38.2	38.2	100.0	38.2	88.3	100.0	100.0	99.5	38.2	88.8	100.0	100.0																													
HQ99	38.2	38.2	37.1	38.2	38.2	38.2	38.2	100.0	38.2	88.3	100.0	100.0	99.5	38.2	88.8	100.0	100.0	100.0																												
GS183	90.9	89.8	88.4	88.2	90.9	90.3	90.9	37.7	87.6	39.8	37.7	37.7	37.7	90.9	39.8	37.7	37.7	37.7	100.0																											
GS97	86.8	85.7	83.9	86.8	86.8	86.2	86.8	35.4	85.7	39.6	35.4	35.4	35.4	86.8	39.6	35.4	35.4	35.4	84.7	100.0																										
GS43	86.8	85.7	83.9	86.8	86.8	86.2	86.8	35.4	85.7	39.6	35.4	35.4	35.4	86.8	39.6	35.4	35.4	35.4	84.7	100.0	100.0																									
GS60	92.5	91.4	87.8	93.0	92.5	91.9	92.5	37.6	92.5	39.2	37.6	37.6	37.6	92.5	39.2	37.6	37.6	37.6	88.2	83.6	83.6	100.0																								
GS164	95.7	94.6	94.2	94.1	95.7	95.2	95.7	38.7	93.0	39.8	38.7	38.7	38.7	95.7	39.8	38.7	38.7	38.7	89.8	85.2	85.2	90.3	100.0																							
GS40	86.8	85.7	83.9	86.8	86.8	86.2	86.8	35.4	85.7	39.6	35.4	35.4	35.4	86.8	39.6	35.4	35.4	35.4	84.7	100.0	100.0	83.6	85.2	100.0																						
GS39	86.8	85.7	83.9	86.8	86.8	86.2	86.8	35.4	85.7	39.6	35.4	35.4	35.4	86.8	39.6	35.4	35.4	35.4	84.7	100.0	100.0	83.6	85.2	100.0	100.0																					
GS29	97.9	96.8	92.1	98.4	97.9	97.3	97.9	39.3	97.3	40.8	39.3	39.3	39.3	97.9	40.8	39.3	39.3	39.3	89.3	86.8	86.8	94.1	94.6	86.8	86.8	100.0																				
GS35	97.9	96.8	92.1	98.4	97.9	97.3	97.9	39.3	97.3	40.8	39.3	39.3	39.3	97.9	40.8	39.3	39.3	39.3	89.3	86.8	86.8	94.1	94.6	86.8	86.8	100.0	100.0																			
GS37	97.9	96.8	92.1	98.4	97.9	97.3	97.9	39.3	97.3	40.8	39.3	39.3	39.3	97.9	40.8	39.3	39.3	39.3	89.3	86.8	86.8	94.1	94.6	86.8	86.8	100.0	100.0	100.0																		
GS55	91.4	90.3	87.8	88.2	91.4	90.9	91.4	37.7	87.6	39.3	37.7	37.7	37.7	91.4	39.3	37.7	37.7	37.7	95.7	83.6	83.6	88.2	89.3	83.6	83.6	89.8	89.8	89.8	100.0																	
GS167	89.3	88.2	86.8	87.1	89.3	88.7	89.3	38.2	86.6	39.8	38.2	38.2	38.2	89.3	39.8	38.2	38.2	38.2	95.2	84.1	84.1	87.6	88.2	84.1	84.1	88.7	88.7	88.7	95.2	100.0																
1	37.7	37.7	36.6	37.7	37.7	37.7	37.7	99.5	37.7	88.8	99.5	99.5	98.9	37.7	89.4	99.5	99.5	99.5	99.5	37.2	34.9	34.9	37.0	38.2	34.9	34.9	38.7	38.7	38.7	37.2	37.7	100.0														
2	86.8	85.7	83.9	86.2	86.8	86.2	86.8	33.9	85.2	38.0	33.9	33.9	33.9	86.8	38.0	33.9	33.9	33.9	85.2	96.8	96.8	83.6	85.2	96.8	96.8	86.2	86.2	86.2	85.2	84.7	33.3	100.0														
3	86.2	85.2	83.3	85.7	86.2	85.7	86.2	34.4	84.7	38.5	34.4	34.4	34.4	86.2	38.5	34.4	34.4	34.4	85.2	95.8	95.8	83.1	84.7	95.8	95.8	85.7	85.7	85.7	85.7	84.7	33.9	98.9	100.0													
4	38.7	38.7	37.6	38.7	38.7	38.7	38.7	94.7	38.7	87.2	94.7	94.7	94.2	38.7	87.8	94.7	94.7	94.7	37.7	35.4	35.4	37.6	38.2	35.4	35.4	39.8	39.8	39.8	37.7	38.2	95.2	33.9	34.4	100.0												
5	85.6	84.6	84.8	84.0	85.6	85.1	85.6	31.9	83.0	35.6	31.9	31.9	31.9	85.6	35.6	31.9	31.9	31.9	85.1	88.4	88.4	82.5	85.1	88.4	88.4	85.1	85.1	85.1	85.6	87.2	31.4	88.9	88.4	31.9	100.0											
6	86.2	85.2	83.3	86.2	86.2	85.7	86.2	34.9	85.2	39.1	34.9	34.9	34.9	86.2	39.1	34.9	34.9	34.9	84.1	99.5	99.5	83.1	84.7	99.5	99.5	86.2	86.2	86.2	84.1	84.7	34.4	97.4	96.3	34.9	88.9	100.0										
7	37.2	37.2	36.1	37.2	37.2	37.2	37.2	98.4	37.2	87.8	98.4	98.4	97.9	37.2	88.3	98.4	98.4	98.4	36.7	34.4	34.4	36.5	37.7	34.4	34.4	38.2	38.2	38.2	37.7	37.2	98.9	32.8	33.3	94.2	30.9	33.9	100.0									
8	86.7	85.6	83.8	86.2	86.7	86.2	86.7	34.6	85.1	38.7	34.6	34.6	34.6	86.7	38.7	34.6	34.6	34.6	85.1	94.7	94.7	83.0	85.1	94.7	94.7	86.2	86.2	86.2	85.1	84.6	34.0	97.9	96.8	34.6	88.8	95.2	33.5	100.0								
9	96.2	95.2	93.7	95.7	96.2	95.7	96.2	37.2	94.6	39.8	37.2	37.2	37.2	96.2	39.8	37.2	37.2	37.2	90.3	86.8	86.8	92.5	96.2	86.8	86.8	96.2	96.2	96.2	89.3	88.2	36.7	86.8	86.2	37.7	84.6	86.2	36.1	86.7	100.0							
10	96.2	95.2	93.7	95.7	96.2	95.7	96.2	37.7	94.6	40.3	37.7	37.7	37.7	96.2	40.3	37.7	37.7	37.7	90.3	86.2	86.2	92.5	96.2	86.2	86.2	96.2	96.2	96.2	89.3	88.2	37.2	86.2	85.7	38.2	84.6	85.7	36.1	86.2	99.5	100.0						
11	90.9	89.8	88.4	90.9	90.3	90.9	90.9	37.2	87.6	39.3	37.2	37.2	37.2	90.9	39.3	37.2	37.2	37.2	97.3	84.1	84.1	88.2	89.8	84.1	84.1	8																				

**Table S2 Identity comparisons of nucleotide and amino acid sequence of *Bartonella rpoB* gene (866bp) in small mammals in this study**

	HQ25	HQ45	HQ65	HQ9	HQ38	GS164	GS109	GS9	GS8	GS2	1	2	3	4	5	6	7	8	9
HQ25		90.6	89.9	99.9	86.7	97.6	91.9	99.3	88.6	91.9	96.9	89.2	84.8	87.2	82.2	100.0	97.1	85.9	89.6
HQ45	66.3		99.8	90.0	86.6	91.1	90.9	90.4	96.2	90.7	87.4	88.2	84.9	91.9	86.5	94.9	90.2	96.0	98.3
HQ65	64.7	96.7		89.9	86.4	91.1	90.5	90.0	95.9	90.7	87.4	88.2	84.9	91.9	86.5	95.5	90.2	86.0	98.3
HQ9	85.1	68.6	69.5		86.3	97.7	91.8	99.4	88.0	92.0	97.0	89.4	84.9	87.3	82.2	99.9	97.2	86.0	89.6
HQ38	57.1	60.9	61.4	62.6		86.9	87.0	87.1	86.2	86.9	85.4	86.9	96.4	84.2	93.7	86.7	87.7	97.6	86.6
GS164	79.3	70.2	71.2	89.9	62.8		92.0	97.6	89.2	92.1	95.9	90.5	96.4	89.1	84.1	97.6	98.3	86.8	90.4
GS109	72.0	74.6	72.0	74.3	63.6	74.3		92.1	89.7	98.1	89.2	95.8	85.0	87.8	82.8	91.9	90.8	85.7	90.4
GS9	88.8	72.6	70.0	92.6	63.9	87.3	79.6		88.3	91.9	96.9	89.2	85.4	87.0	81.9	99.3	97.0	86.4	89.3
GS8	62.3	89.6	87.7	64.6	60.2	66.6	72.2	67.9		89.5	85.6	87.1	84.3	91.0	85.6	92.0	88.1	85.5	97.5
GS2	65.7	68.9	69.8	76.7	63.2	76.1	88.3	71.9	66.6		89.6	96.9	85.1	88.0	83.1	91.9	91.3	85.9	90.5
1	81.5	65.2	66.1	95.1	62.9	89.0	70.9	89.3	61.9	75.6		91.9	85.5	87.2	84.4	96.9	97.0	96.1	88.4
2	63.8	67.2	68.1	74.6	63.3	75.2	87.3	69.9	65.2	95.3	77.4		85.6	88.0	85.5	89.2	91.3	86.0	89.3
3	53.8	58.5	59.3	63.3	87.9	64.9	59.5	60.5	57.9	63.2	64.3	63.9		85.4	81.0	85.4	87.1	99.7	86.5
4	57.1	73.9	74.9	66.8	57.4	68.8	63.9	61.9	73.2	68.2	66.4	68.2	60.7		94.6	92.0	88.8	85.2	93.3
5	53.2	68.9	69.8	61.8	55.9	64.5	59.9	57.9	68.2	64.5	63.1	65.7	57.0	93.9		89.0	88.8	85.2	87.9
6	99.1	66.1	64.6	84.9	57.0	79.1	71.8	88.5	62.1	65.5	81.2	63.6	53.6	57.0	53.0		97.1	85.9	97.1
7	70.8	62.5	63.4	82.7	61.5	85.5	64.6	77.3	58.9	69.5	84.3	70.8	61.4	63.9	67.6	70.6		87.2	90.0
8	49.2	53.5	54.2	57.6	82.5	59.6	53.5	55.2	53.2	57.0	59.5	58.4	90.6	55.2	58.4	49.1	67.7		86.7
9	81.7	92.3	93.2	95.0	88.5	95.7	88.6	89.6	89.6	95.3	95.7	95.3	93.5	99.3	93.8	69.8	89.5	86.2	

**1: AB529478.1 *Bartonella Koshimizu*; 2: AB529485.1 *Bartonella sp* ;3: LC513659.1 *Bartonella rochalimae* ; 4: AF165992.1 *Bartonella elizabethae* ; 5: MF105889.1 *Bartonella elizabethae* ; 6:AB426694.1 *Bartonella grahamii* ; 7:AY515132.1 *Bartonella phoceensis* ; 8:CP019785.1 *Bartonella sp*; 9:AB426697.1 *Bartonella grahamii***

**Table S3 Identity comparisons of nucleotide and amino acid sequence of *Bartonella gltA* gene (375bp) in small mammals in this study**

	GS129	GS134	GS136	HQ64	HQ19	1	2	3	4	5	5
GS129		71.0	88.7	91.3	99.7	97.9	70.1	70.1	93.7	100.0	97.6
GS134	43.3		68.3	72.6	70.7	70.4	96.0	70.9	70.2	67.5	70.4
GS136	69.3	40.2		87.9	88.4	88.0	68.0	88.6	92.1	87.3	87.9
HQ64	77.2	48.0	69.3		91.0	90.4	72.0	97.4	90.5	90.2	90.2
HQ19	99.2	43.3	68.5	76.4		97.6	69.8	90.7	93.4	99.7	97.4
1	92.1	41.7	66.1	73.2	91.3		69.6	89.6	93.1	97.6	99.7
2	40.9	89.0	36.2	44.9	40.9	41.7		70.4	69.3	66.6	69.6
3	45.1	25.4	41.3	54.5	44.6	43.2	25.4		90.7	90.5	89.7
4	80.3	40.9	77.2	74.8	79.5	79.5	41.7	46.5		92.9	92.9
5	89.0	33.1	58.3	66.9	88.2	83.3	32.3	40.9	70.9		97.6
6	53.7	24.1	38.4	42.6	53.2	57.9	24.5	70.8	46.8	48.6	

**1:** GU056197.1 *Bartonella phoceensis* ; **2:** EF662053.1 Uncultured *Bartonella* sp ;**3:** KT327033.1 *Bartonella grahamii* ; **4:** DQ884379.1 *Bartonella* sp ; **5:** AB529465.1 *Bartonella Koshimizu* ;**6:** AY515126.1 *Bartonella phoceensis*

**Table S3.** Identity comparisons of nucleotide and amino acid sequence of *Bartonella gltA* gene (375bp) in small mammals from this study.`

**Table S4.** The results of intra-group repeatability.

Number of copies/(copies/ $\mu$ L)	C <sub>t</sub> values			Mean C <sub>t</sub>	SD	CV (%)
	1	2	3			
10 <sup>8</sup>	14.2	14.3	14.3	14.3	0.08	0.5
10 <sup>7</sup>	17.6	17.5	17.4	17.5	0.06	0.5
10 <sup>6</sup>	21.6	22.3	21.7	21.9	0.4	1.8
10 <sup>5</sup>	24.8	25.1	25.1	25.0	0.2	0.8
10 <sup>4</sup>	27.6	27.8	28.3	27.9	0.3	1.3

C<sub>t</sub>: Cycle Threshold; SD: Standard deviation; CV: Coefficient of variation.

**Table 3.** The results of inter-group repeatability

Number of copies/(copies/ $\mu$ L)	C <sub>t</sub> values			Mean C <sub>t</sub>	SD	CV (%)
	1	2	3			
10 <sup>8</sup>	14.8	14.3	14.3	14.5	0.2	1.8
10 <sup>7</sup>	19.1	18.7	18.8	18.8	0.1	1.0
10 <sup>6</sup>	22.8	22.5	22.3	22.5	0.2	1.1
10 <sup>5</sup>	25.7	25.1	26.1	25.6	0.4	0.8
10 <sup>4</sup>	29.4	28.3	28.8	28.9	0.5	1.9

C<sub>t</sub>: Cycle Threshold; SD: Standard deviation; CV: Coefficient of variation.