	Theileria paparinii	***Babesia* sp. BP1**	***Babesia* sp. BP7**	***Babesia gibsoni***	*Babesia gibsoni* (AB499087)	*Babesia canis canis* (KC207822)	*Babesia canis vogeli* (KC207825)	*Babesia canis rossi* (KC207823)	*Babesia caballi* (AB499086)	*Babesia* sp. Coco (KC207824)	*Babesia bigemina* (AB499085)	*Babesia bovis* (AB499088)	**Theileria sp. B60**	***Theileria* sp. K36**	***Theileria apogeana***	**P92**	**P68**	**Q2031b**	**Q1356**	**TB105**	*Cytauxzoon felis* (KC207821)	*Theileria annulata* (NW_001091933)	*Theileria parva* (AB499089)	*Babesia equi* (AB499091)	*Babesia conradae* (KC207826)	*Babesia microti* (LN871600)	*Babesia microti* (AB624353)	*Babesia* cf. *microti* (KC207827)	*Theileria orientalis* (AB499090)	*Babesia rodhaini* (AB499090)
Theileria paparinii																														
***Babesia* sp. BP1**	27.8%																													
***Babesia* sp. BP7**	27.1%	5.3%																												
Babesia gibsoni	22.1%	25.3%	24.7%																											
Babesia gibsoni (AB499087)	22.0%	25.2%	24.8%	0.4%																										
Babesia canis canis (KC207822)	24.8%	25.4%	25.2%	17.5%	17.4%																									
Babesia canis vogeli (KC207825)	24.2%	25.5%	25.2%	17.1%	17.2%	9.7%																								
Babesia canis rossi (KC207823)	25.7%	26.6%	25.8%	18.4%	18.2%	15.9%	16.9%																							
Babesia caballi (AB499086)	25.2%	24.1%	23.1%	20.8%	20.9%	20.8%	20.9%	21.5%																						
Babesia sp. Coco (KC207824)	23.7%	23.1%	22.5%	20.9%	21.2%	19.6%	20.6%	20.1%	13.0%																					
Babesia bigemina (AB499085)	25.2%	26.0%	25.2%	21.1%	21.3%	21.7%	22.1%	22.1%	15.0%	15.9%																				
Babesia bovis (AB499088)	26.1%	25.8%	24.8%	22.2%	22.4%	24.0%	23.6%	24.2%	19.2%	18.9%	19.4%																			
Theileria sp. B60	10.3%	28.4%	27.8%	23.5%	23.4%	24.3%	24.2%	24.7%	26.0%	25.4%	26.6%	28.2%																		
***Theileria* sp. K36**	10.1%	28.2%	27.8%	22.1%	22.1%	25.7%	23.5%	25.5%	25.8%	25.8%	26.9%	28.3%	10.7%																	
Theileria apogeana	11.9%	28.9%	28.4%	22.9%	22.9%	24.5%	24.1%	23.6%	26.2%	25.6%	26.3%	28.1%	13.5%	10.9%																
P92	11.1%	27.9%	27.1%	23.1%	23.2%	24.4%	23.9%	24.3%	25.8%	24.8%	26.0%	27.6%	12.5%	10.2%	3.7%															
P68	11.1%	27.9%	27.1%	23.1%	23.2%	24.4%	23.9%	24.3%	25.8%	24.8%	26.0%	27.6%	12.5%	10.2%	3.7%	0.0%														
Q2031b	10.6%	28.0%	27.7%	23.2%	23.1%	24.8%	24.5%	25.0%	26.5%	25.0%	26.5%	27.1%	10.2%	8.7%	9.4%	8.9%	8.9%													
Q1356	10.6%	28.3%	28.0%	23.2%	23.1%	25.0%	24.6%	25.1%	26.5%	25.4%	26.5%	27.2%	10.2%	8.3%	9.8%	9.2%	9.2%	0.8%												
TB105	13.5%	28.5%	27.5%	22.5%	22.6%	23.2%	22.5%	25.5%	25.3%	24.4%	26.4%	27.0%	13.1%	14.0%	16.1%	15.0%	15.0%	15.0%	15.1%											
Cytauxzoon felis (KC207821)	22.1%	31.4%	30.8%	26.4%	26.3%	27.5%	26.3%	26.6%	30.0%	29.5%	30.3%	30.5%	21.5%	24.2%	23.3%	23.6%	23.6%	23.0%	23.0%	22.9%										
Theileria annulata (NW_001091933)	34.1%	37.5%	36.7%	35.8%	35.8%	37.5%	35.8%	34.9%	37.6%	37.3%	37.5%	38.2%	32.9%	34.8%	35.9%	35.5%	35.5%	34.4%	34.4%	34.2%	36.4%									
Theileria parva (AB499089)	35.2%	38.3%	37.5%	36.1%	36.0%	36.3%	35.9%	34.4%	37.4%	36.8%	37.4%	37.5%	35.2%	35.1%	35.3%	35.0%	35.0%	35.1%	35.1%	36.0%	36.3%	26.6%								
Babesia equi (AB499091)	27.8%	31.6%	30.9%	31.3%	31.3%	31.3%	30.5%	31.2%	31.0%	30.5%	31.9%	32.0%	27.8%	28.5%	29.7%	28.6%	28.6%	27.9%	27.6%	28.6%	28.8%	38.4%	37.9%							
Babesia conradae (KC207826)	37.3%	39.2%	38.7%	39.2%	39.3%	37.1%	37.7%	37.6%	40.2%	40.8%	41.0%	40.3%	36.5%	38.1%	38.7%	38.9%	38.9%	37.5%	37.0%	35.6%	36.6%	42.7%	42.9%	39.0%						
Babesia microti (LN871600)	42.3%	43.2%	43.5%	43.7%	43.8%	42.9%	43.0%	42.5%	43.8%	43.4%	44.0%	42.4%	41.3%	42.5%	40.5%	40.4%	40.4%	40.6%	40.8%	41.3%	41.9%	47.9%	47.0%	45.5%	47.6%					
Babesia microti (AB624353)	42.4%	42.9%	44.3%	42.8%	42.7%	42.6%	43.4%	43.8%	43.5%	44.0%	43.4%	43.1%	40.6%	41.4%	40.5%	40.5%	40.5%	41.1%	41.4%	41.4%	43.7%	48.2%	48.0%	46.5%	48.1%	10.3%				
Babesia cf. *microti* (KC207827)	41.6%	43.3%	43.7%	43.3%	43.3%	42.5%	42.6%	44.4%	44.0%	44.5%	43.7%	42.5%	40.5%	41.7%	41.5%	41.1%	41.1%	41.9%	42.1%	42.1%	42.3%	49.2%	48.9%	45.1%	48.8%	14.2%	13.3%			
Theileria orientalis (AB499090)	54.7%	51.7%	51.8%	54.5%	54.7%	54.4%	54.1%	54.7%	53.5%	52.2%	54.1%	54.0%	53.3%	54.8%	55.1%	54.9%	54.9%	54.1%	54.4%	56.0%	53.3%	58.3%	58.8%	55.1%	55.3%	57.9%	57.9%	58.8%		
Babesia rodhaini (AB499090)	41.2%	40.2%	40.1%	40.2%	40.1%	40.6%	40.6%	40.8%	42.3%	41.0%	42.5%	41.9%	40.5%	39.9%	41.9%	41.5%	41.5%	41.4%	41.0%	40.2%	41.3%	44.2%	44.8%	42.1%	45.4%	34.8%	35.2%	35.5%	56.4%	
Plasmodium falciparum (AY283019)	53.8%	57.0%	56.5%	55.0%	54.9%	56.2%	56.1%	57.2%	55.4%	55.3%	55.9%	57.0%	54.5%	55.7%	54.6%	55.3%	55.3%	54.4%	54.5%	54.2%	56.6%	59.9%	61.2%	55.7%	59.4%	59.8%	59.6%	59.5%	64.6%	58.1%