

**APPENDIX 1.** Number of mapped reads and comparative statistics of the BWA multireference iterative mapping using stringent (STR) and relaxed (REL) parameters.

Mapping#1	Stringent BWA mapping parameters				Relaxed BWA mapping parameters			
	References				References			
A= <i>Dinaromys bogdanovi</i> (Genbank Accession MT588182)								
B= <i>Eolagurus luteus</i> (Genbank Accession MT492448)								
C= <i>Microtus thomasi</i> (Genbank Accession NC_057558)								
	Number of reads				Number of reads			
Iteration	A	B	C		Iteration	A	B	C
1	542	455	425		1	829	658	629
2	765	620	618		2	1180	950	888
3	881	729	708		3	1391	1203	1070
4	968	801	782		4	1513	1313	1181
5	1036	861	831		5	1618	1406	1293
6	1079	907	880		6	1703	1491	1381
7	1106	946	916		7	1762	1525	1436
8	1139	968	931		8	1787	1558	1473
9	1161	976	946		9	1821	1590	1508
10	1172	990	956		10	1840	1593	1525
11	1173	1002	963		11	1849	1610	1543
12	1173	1021	966		12	1857	1634	1570
13		1033	969		13	1865	1644	1585
14		1039	976		14	1873	1661	1600
15		1043	978		15	1881	1669	1609
16		1045	983		16	1888	1679	1620
17		1049	984		17	1891	1699	1622
18		1053	985		18	1898	1710	1631
19		1055	986		19	1898	1718	1636
20		1056	988		20		1726	1638
21		1056	988		21		1726	1639
					22			1641
					23			1641

Consensus stats				Consensus stats			
Final reads	1173	1056	988	Final reads	1898	1726	1641
Ref-Seq (%)	58.0	50.9	47.9	Ref-Seq (%)	84.7	76.1	74.6
Mean coverage	4.5	4.0	3.7	Mean coverage	7.3	6.5	6.3
Mean read leng	62.3	61.4	61.4	Mean read leng	63.1	62.0	62.4

Mapping#2	Stringent BWA mapping parameters				Relaxed BWA mapping parameters	
Iteration	# reads		Iteration	# reads <td rowspan="7"></td>		
1	1624		1	2139		
2	1645		2	2147		
3	1660		3	2163		
4	1671		4	2167		
5	1678		5	2168		
6	1678		6	2172		
			7	2175		
			8	2175		

FINAL consensus stats		FINAL consensus stats	
Final reads	1678	Final reads	2175
Ref-Seq (%)	74.6	Ref-Seq (%)	93.3
Mean coverage	6.4	Mean coverage	8.5
Mean read leng	62.8	Mean read leng	63.6