

**Supplemental Table S3. Parameters of genetic diversity within populations of 124 *Brachymystax lenok tsinlingensis* individuals in this study.**

Sample number	SNP number	SNP density (SNP/Kb)	Nucleotide diversity( $\pi$ )	Inbreeding coefficient(F)	Polymorphism information content(PIC)	Observed heterozygosity( $H_o$ )	Minor allele frequency(MAF)	Tajima.D
30	27084078	13.0712328	3.174e-03±1.741e-03	-5.709e-02±1.678e-01	0.194±0.122	0.247±0.225	0.164±0.141	0.2989002
18	17095284	8.250472361	1.168e-03±1.592e-03	-2.373e-01±1.203e+00	0.118±0.095	0.167±0.233	0.091±0.123	-1.873787
22	16122118	7.780806038	9.363e-04±1.605e-03	-2.760e-01±1.011e+00	0.099±0.108	0.148±0.249	0.083±0.134	-2.118592
23	7320422	3.532959112	6.376e-04±1.602e-03	-4.062e-01±6.839e-02	0.144±0.13	0.246±0.333	0.134±0.169	-1.71312
31	17068654	8.237620274	8.210e-04±1.558e-03	-2.727e-01±8.618e-01	0.083±0.106	0.124±0.237	0.07±0.128	-2.212497
<b>124</b>	<b>28324567</b>	<b>13.66991371</b>	<b>2.614e-03±1.511e-03</b>	<b>4.340e-01±4.636e-01</b>	<b>0.16±0.111</b>	<b>0.105±0.173</b>	<b>0.122±0.114</b>	<b>0.366538</b>