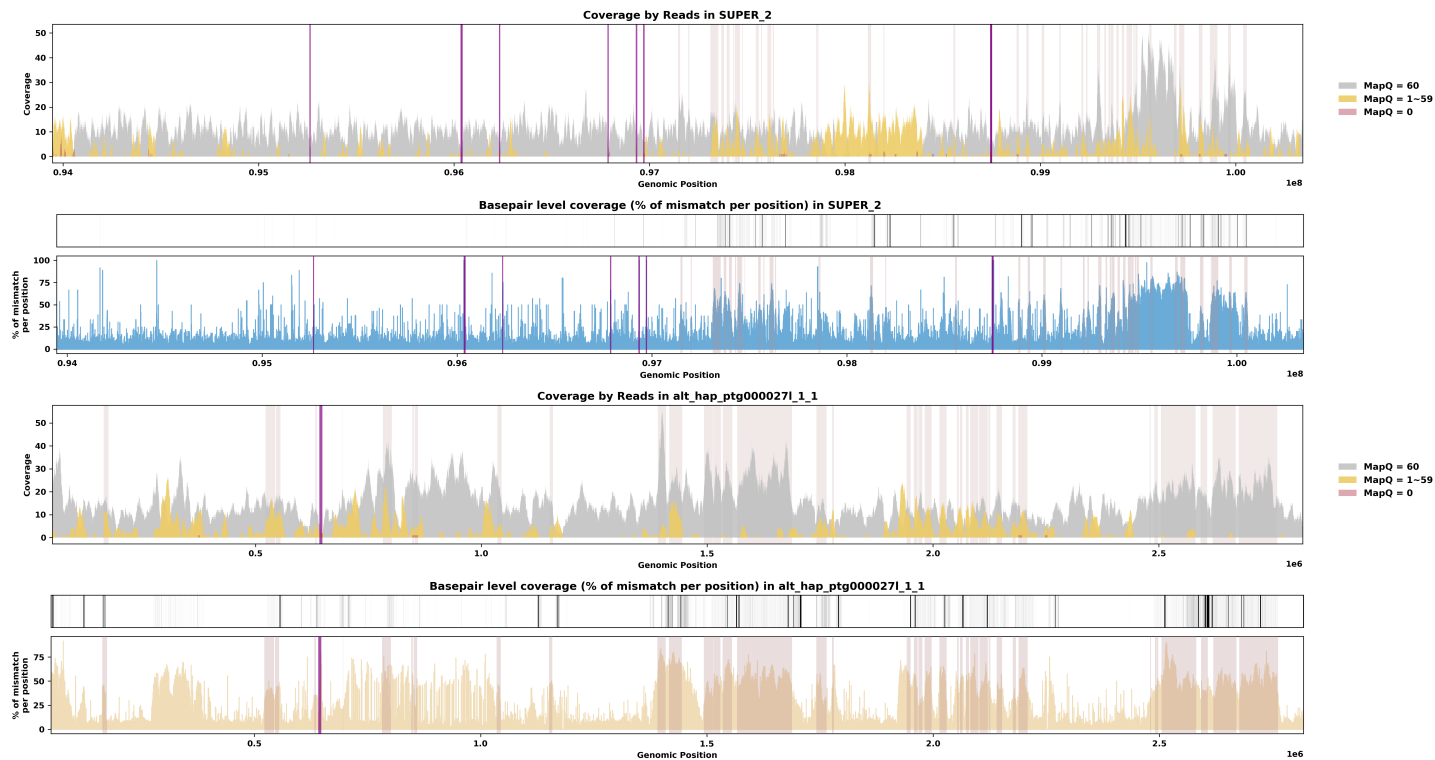
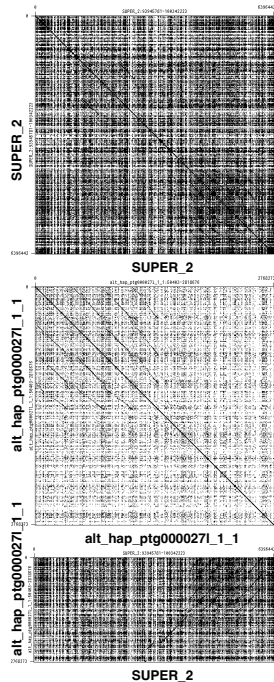
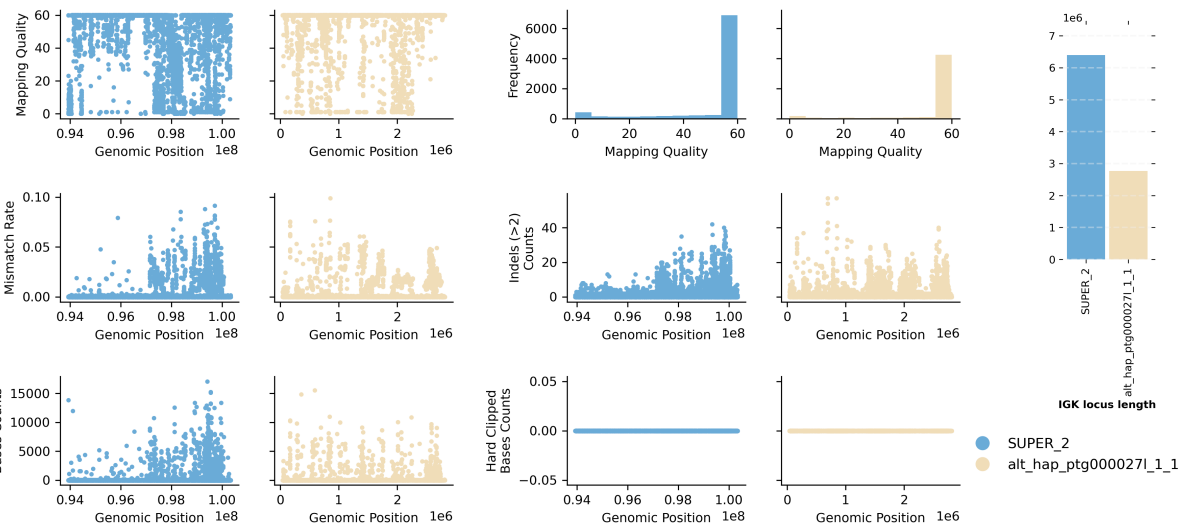


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Note: This supplementary material only displays alternate IG loci if they are longer than one-quarter of the corresponding primary IG locus length. Loci shorter than this threshold are typically too fragmented to be shown. 11 species had alternate IGK loci shorter than this threshold and are not shown.

Species ID: mApoSyl1
 Common Name: wood mouse
 Scientific Name: Apodemus sylvaticus
 Assembly Type: Not Haplotype Resolved
 Data Source: VGP



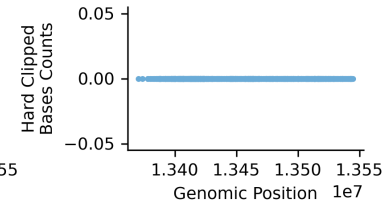
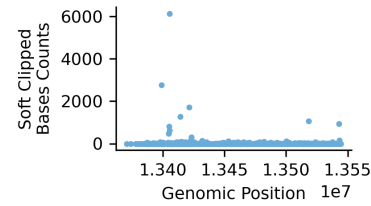
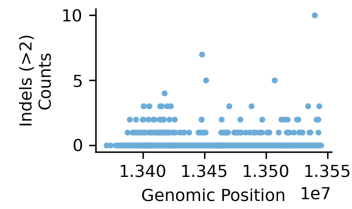
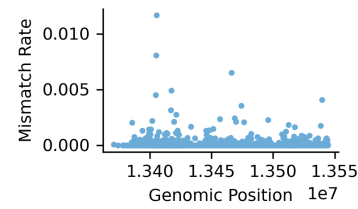
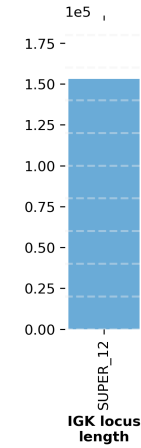
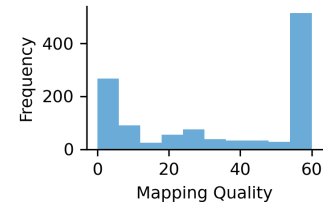
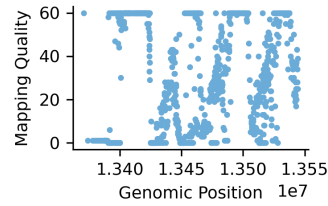
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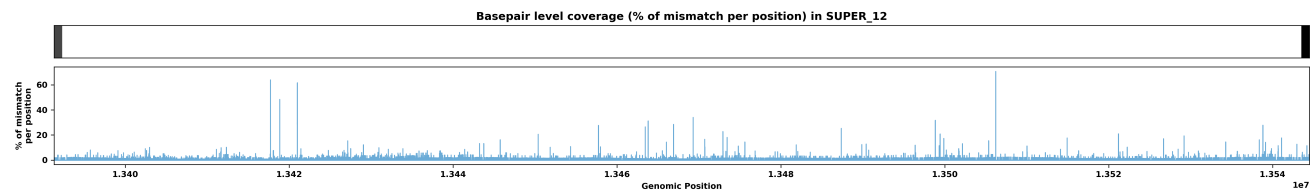
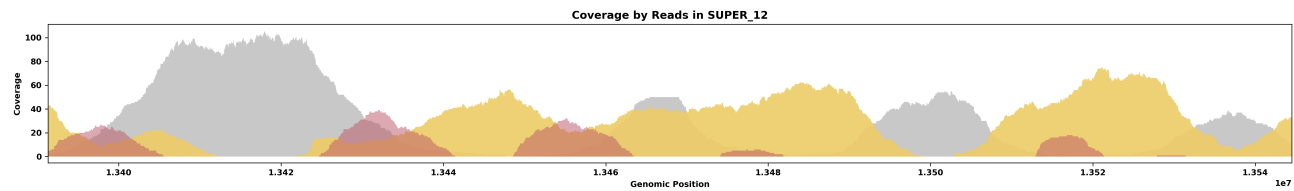
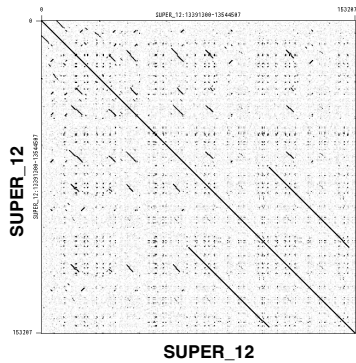
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Assembly Type: Not Haplotype Resolved

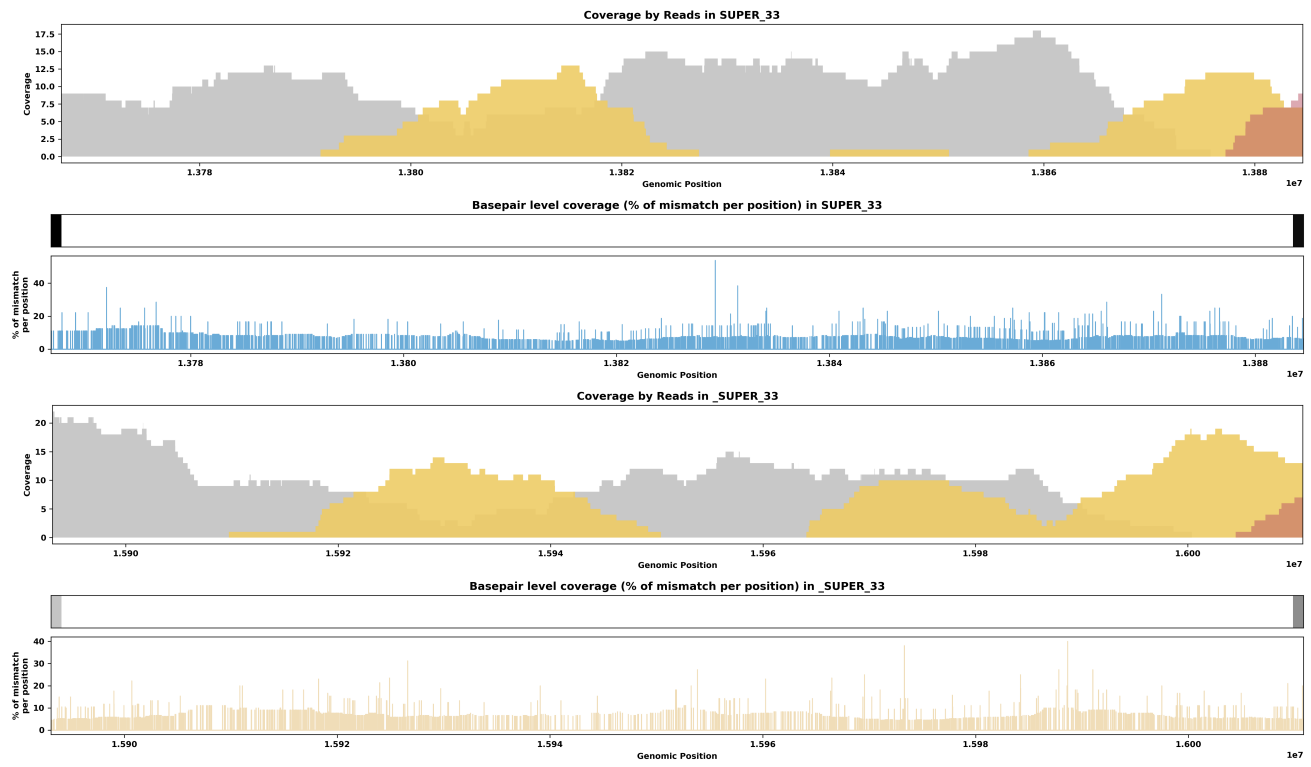
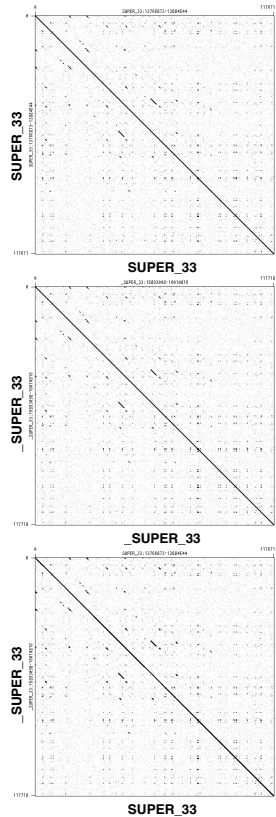
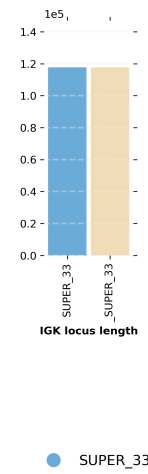
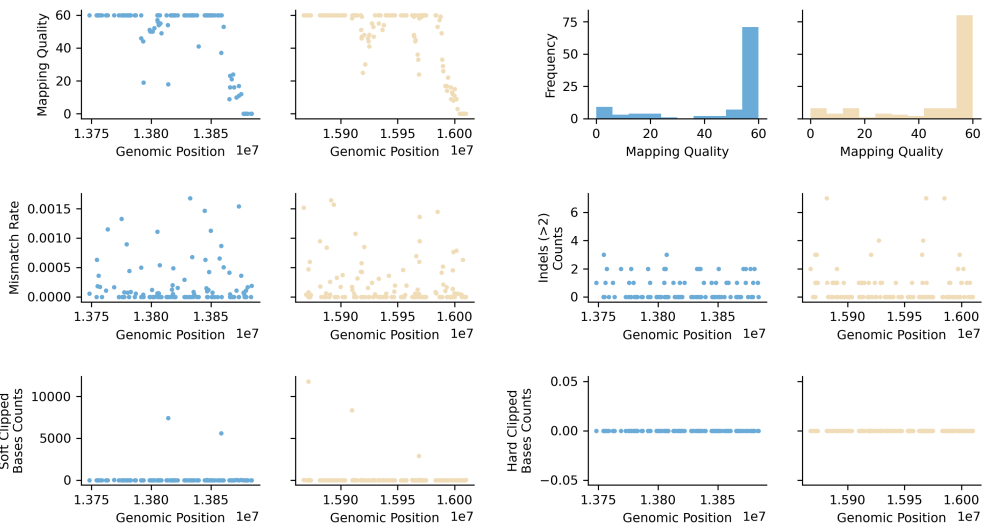
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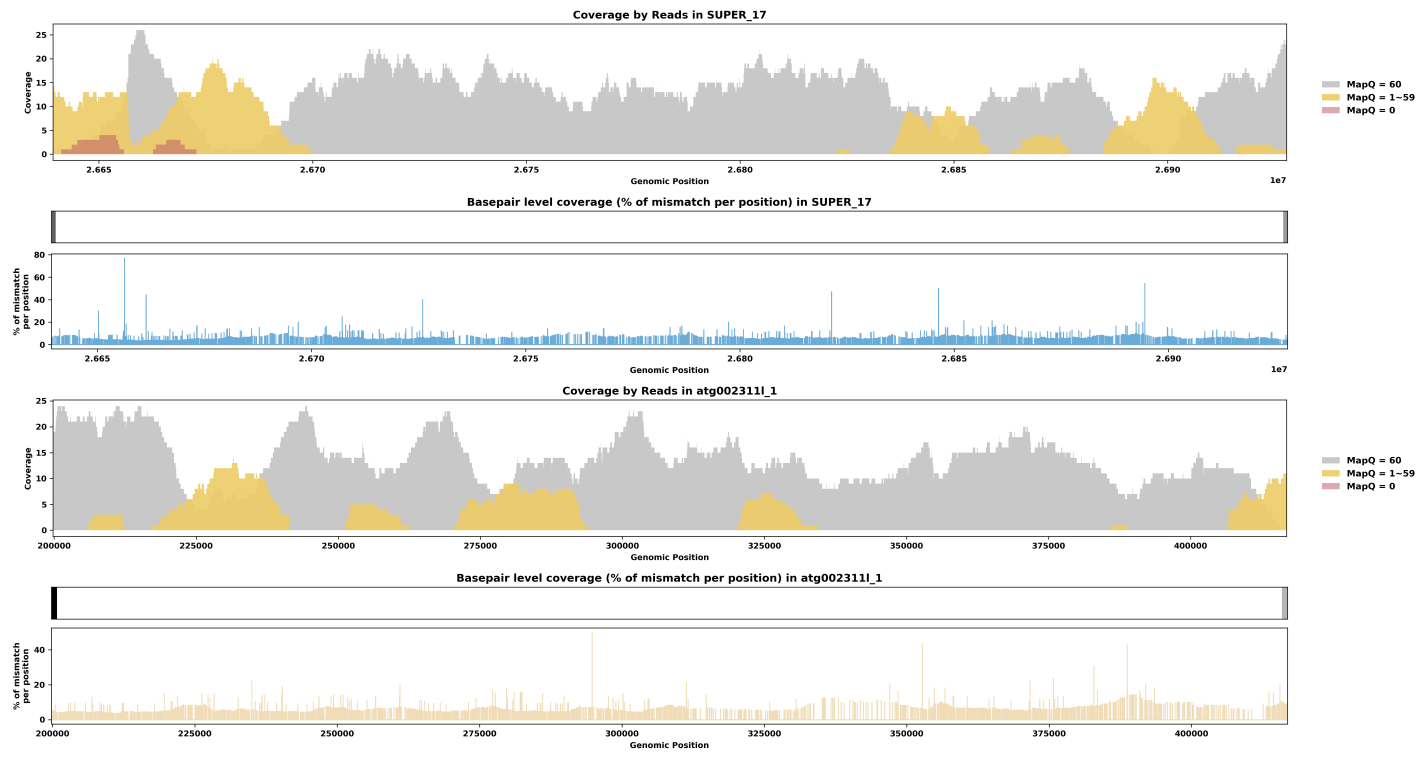
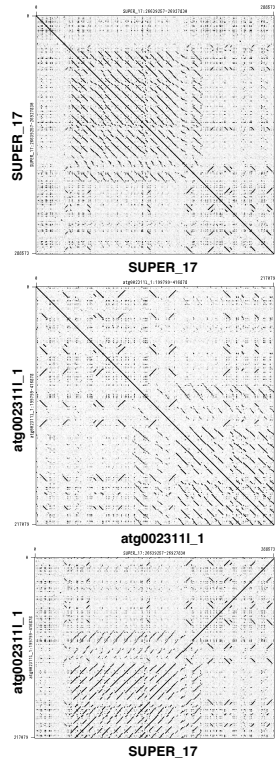
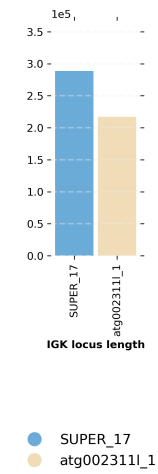
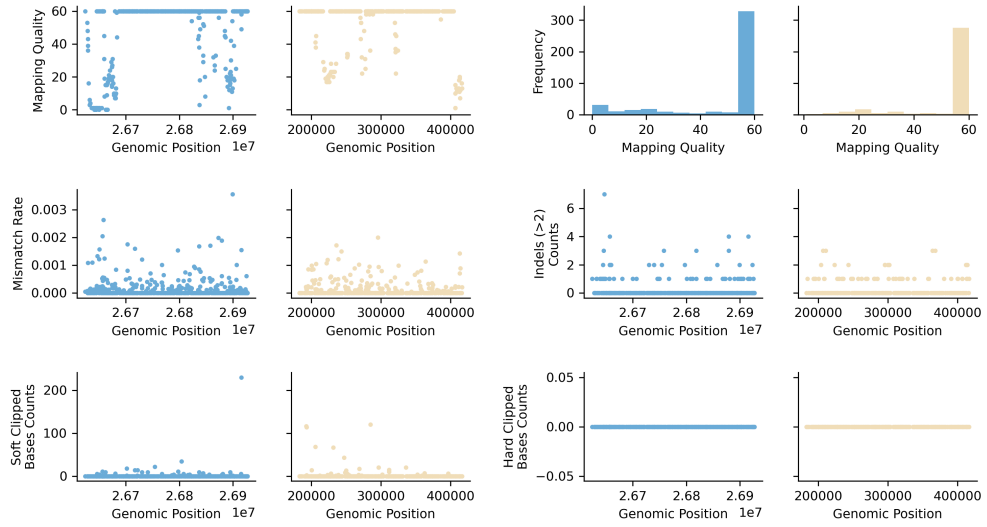
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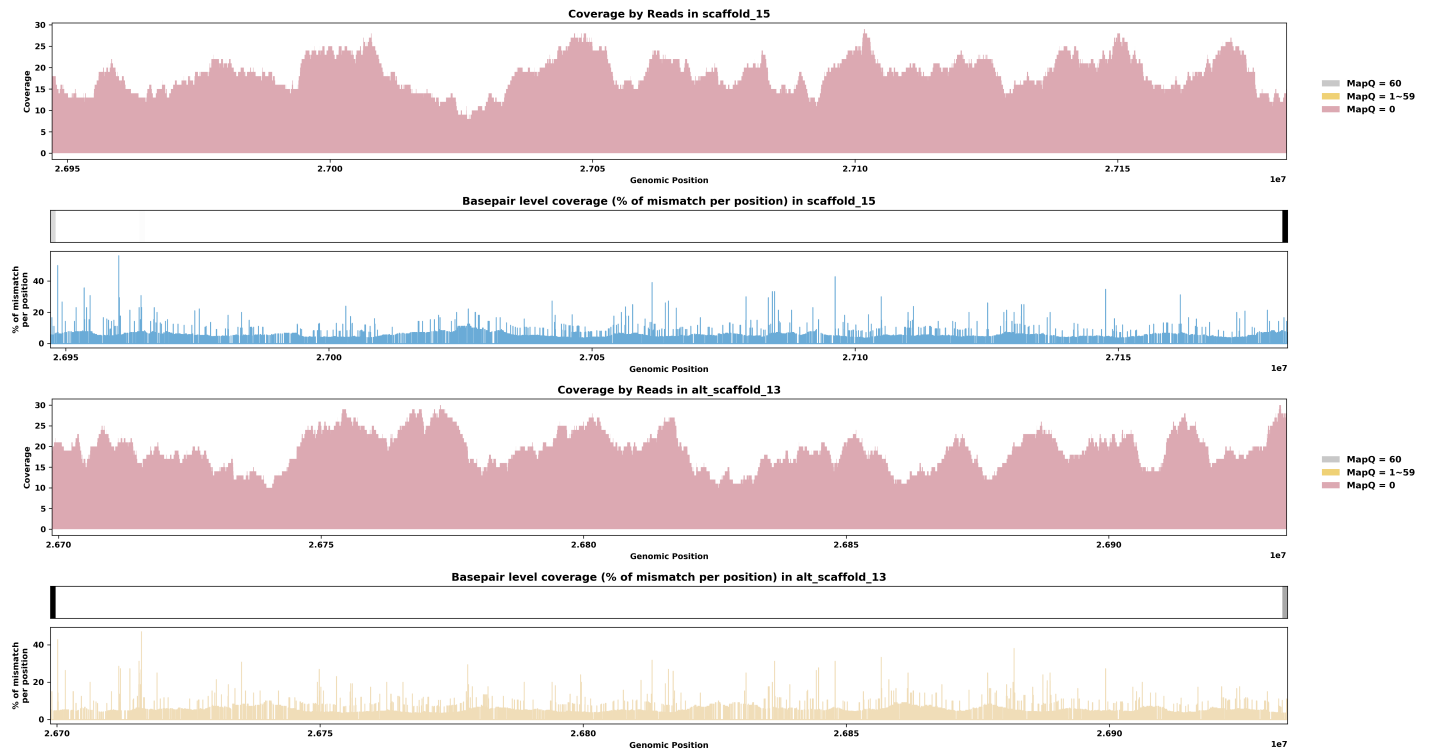
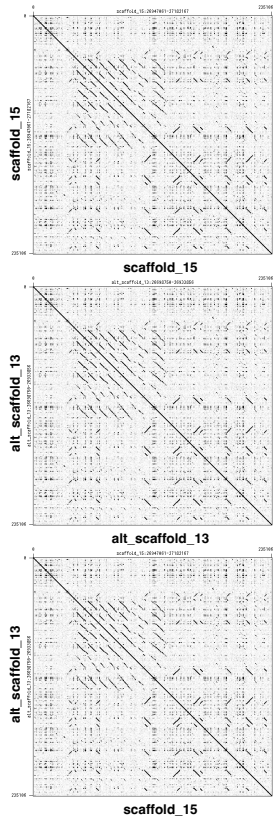
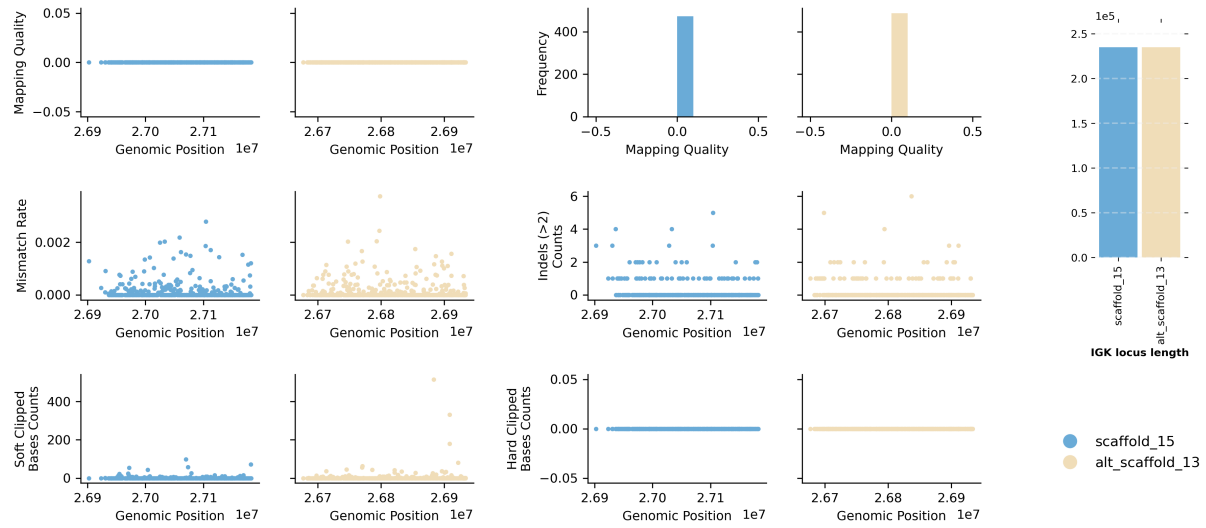
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 Scientific Name: Camelus dromedarius
 Assembly Type: Haplotype Resolved
 Data Source: VGP



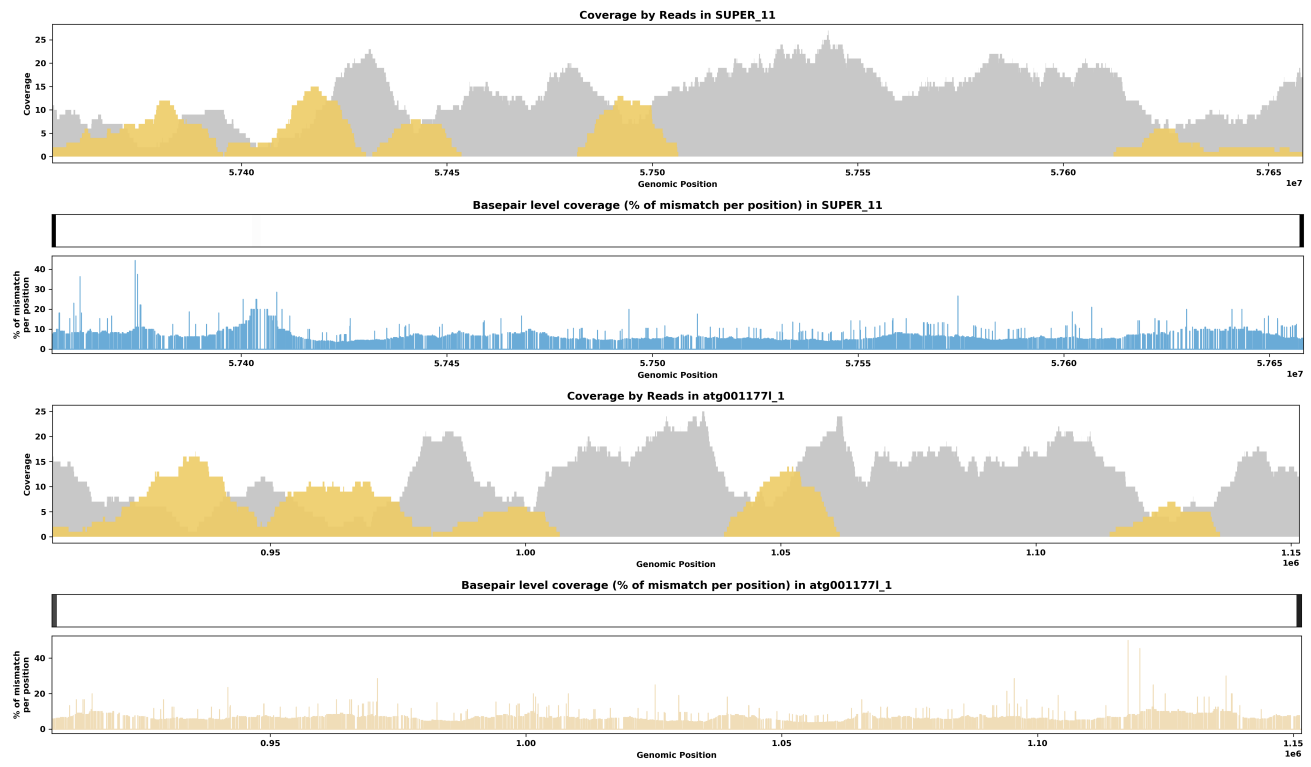
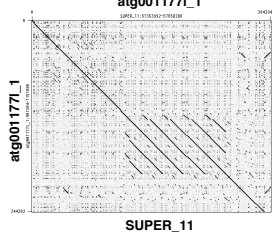
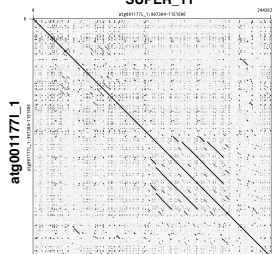
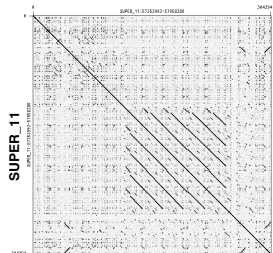
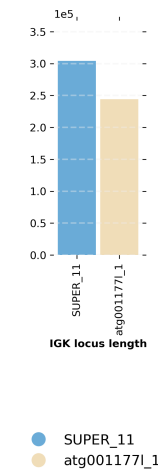
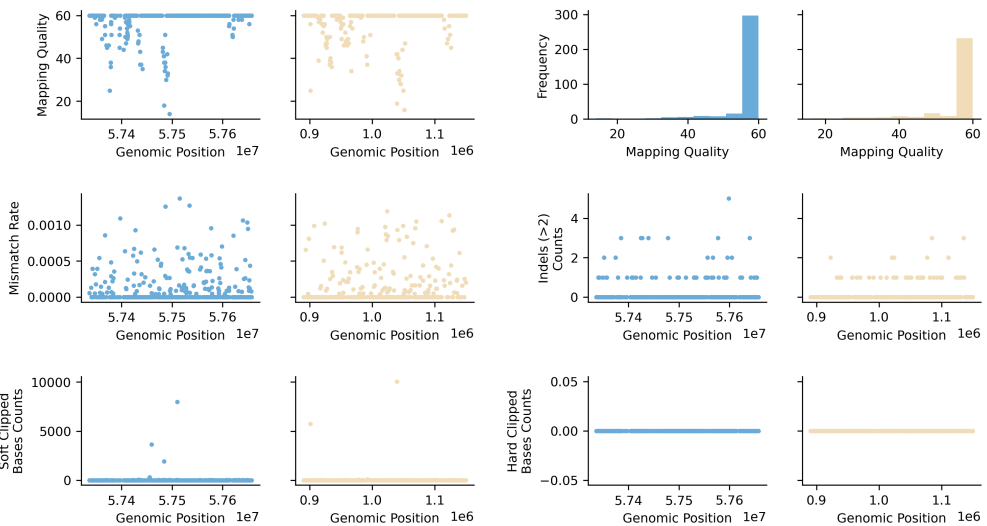
Species ID: mCanLor1
 Common Name: Greenland Wolf
 Scientific Name: *Canis lupus*
 Assembly Type: Not Haplotype Resolved
 Data Source: VGP



Species ID: mCanLor2
 Common Name: Greenland Wolf
 Scientific Name: *Canis lupus*
 Assembly Type: Haplotype Resolved
 Data Source: VGP



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 Scientific Name: Cervus_elaphus
 Assembly Type: Not Haplotype Resolved
 Data Source: VGP



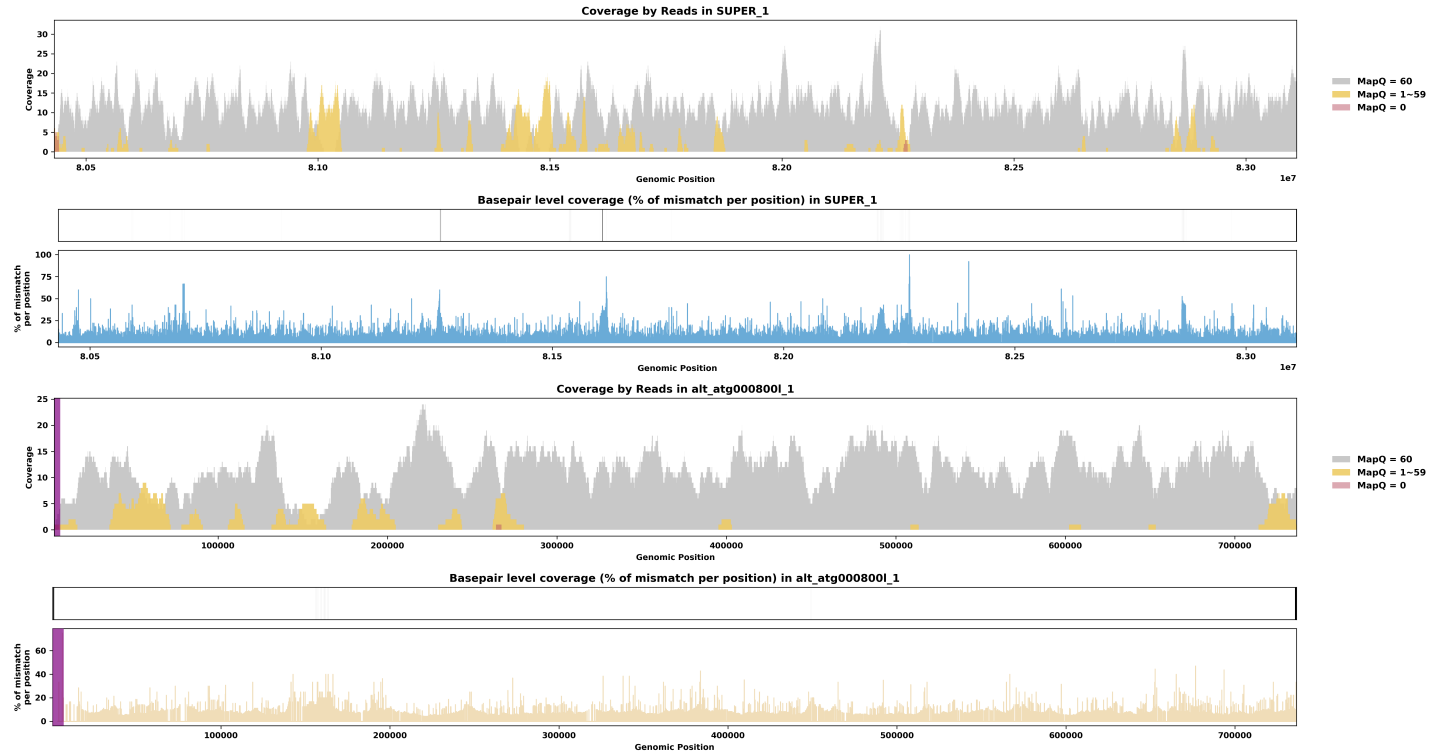
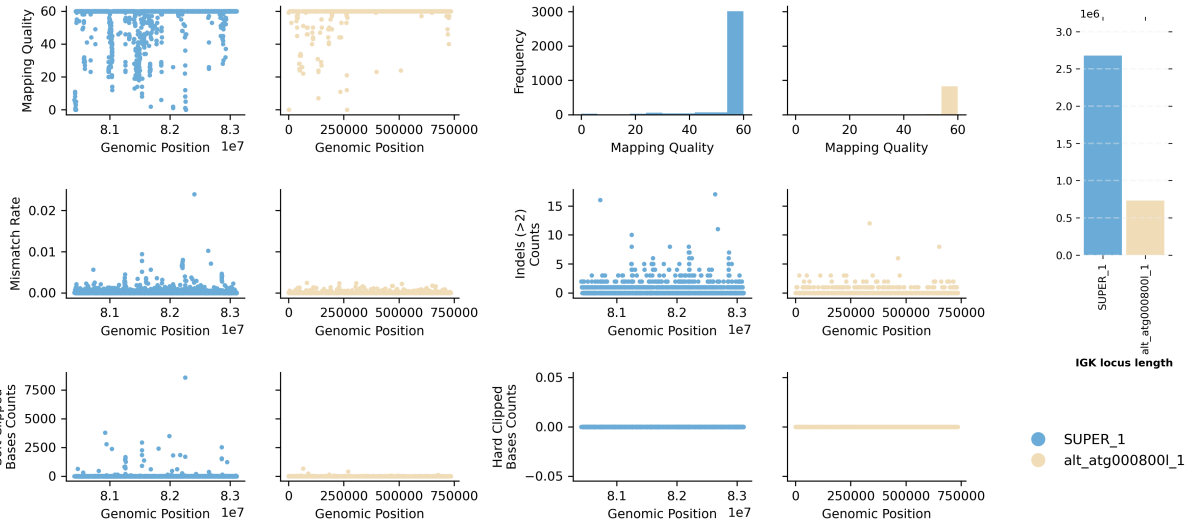
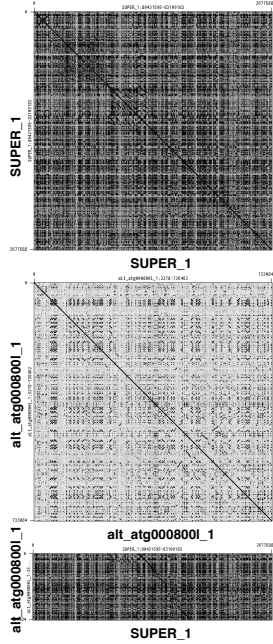
Species ID: mChiNiv1

Common Name: European snow vole

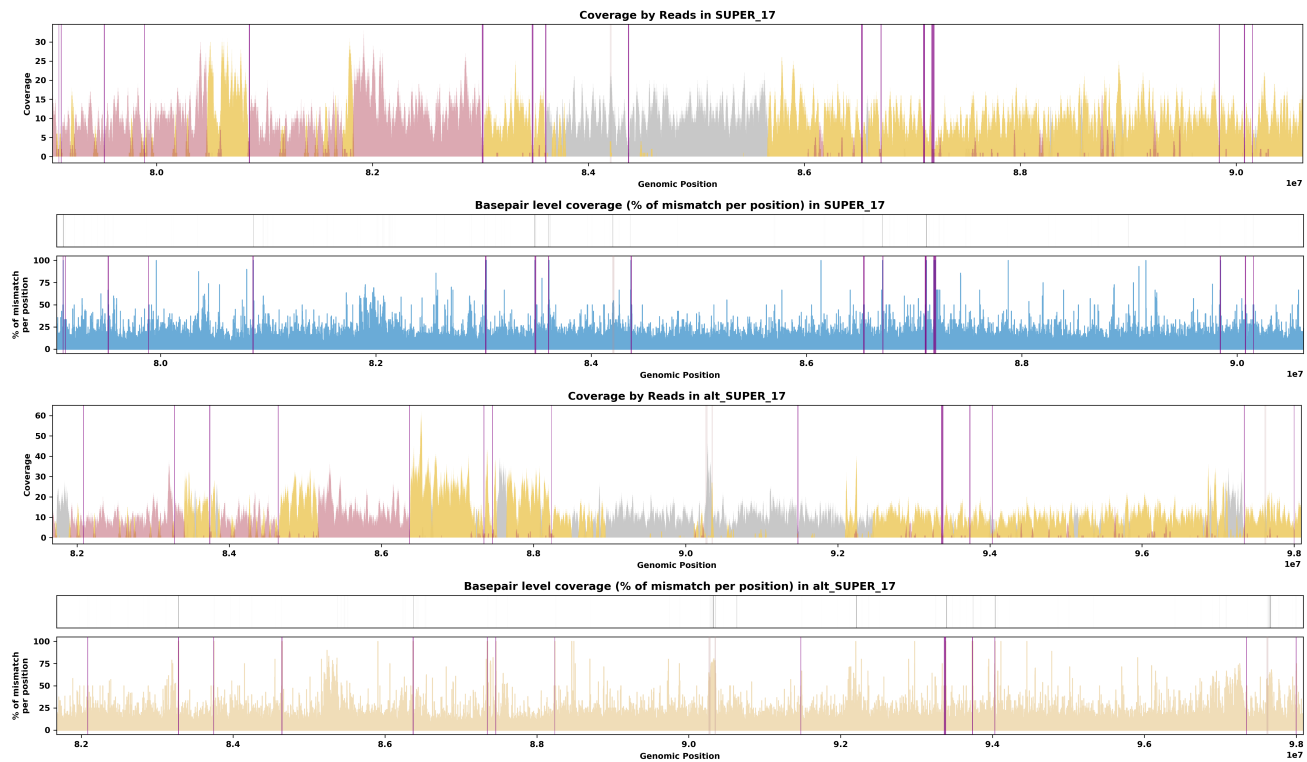
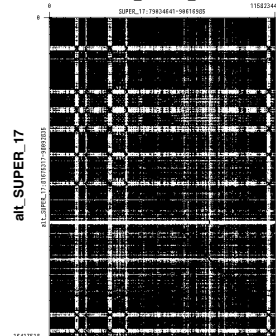
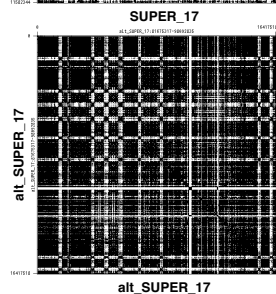
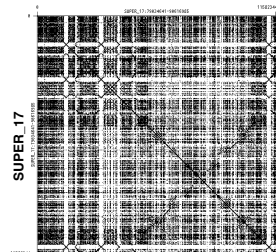
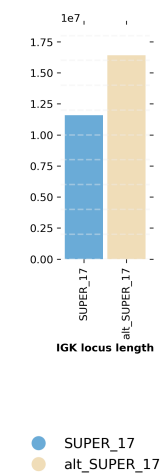
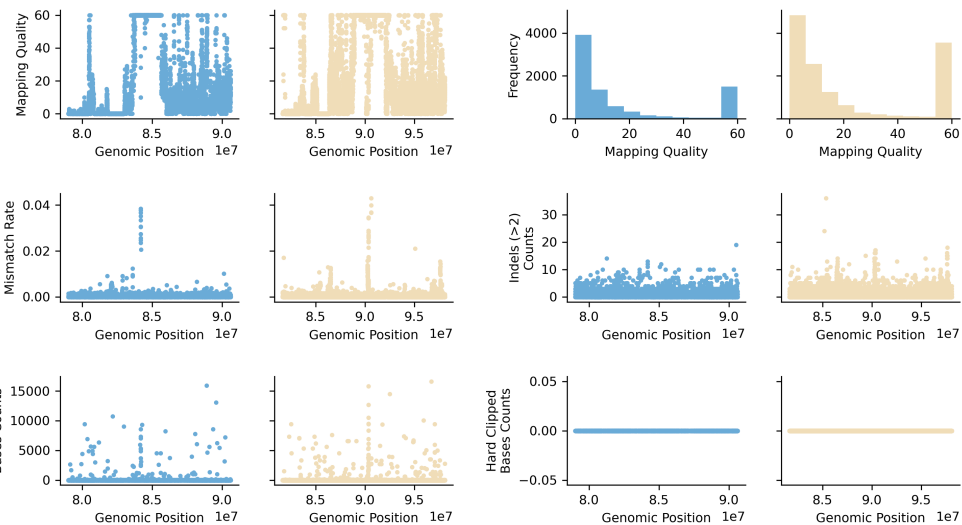
Scientific Name: *Chionomys nivalis*

Assembly Type: Not Haplotype Resolved

Data Source: VGP



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 Common Name: nine-banded armadillo
 Scientific Name: Dasypus novemcinctus
 Assembly Type: Haplotype Resolved
 Data Source: VGP



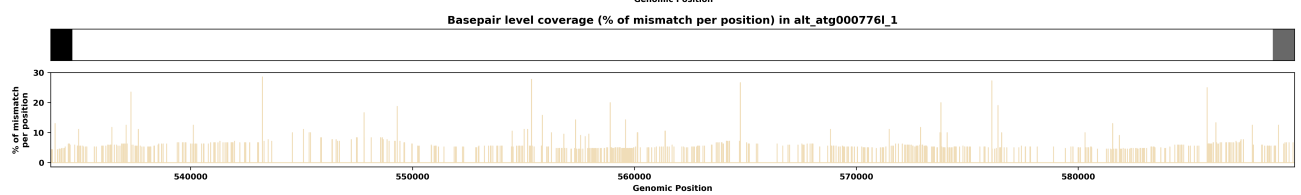
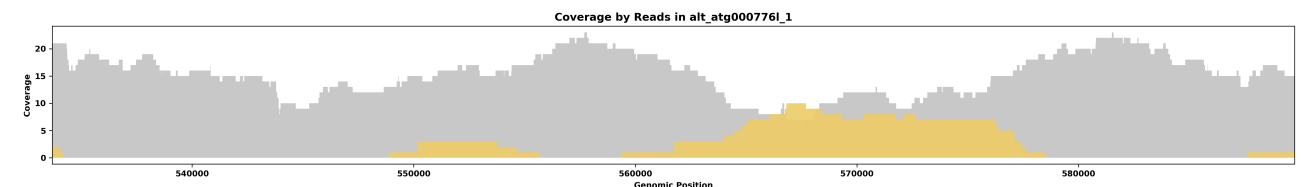
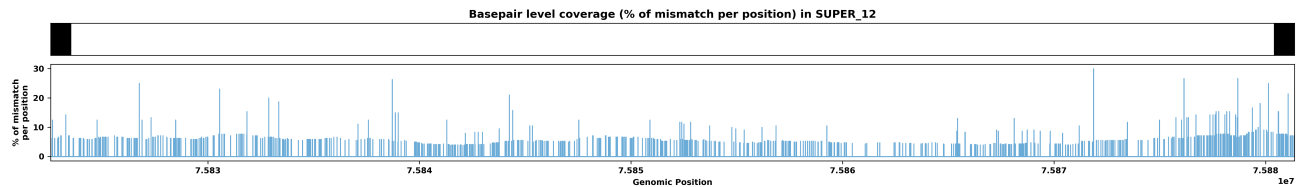
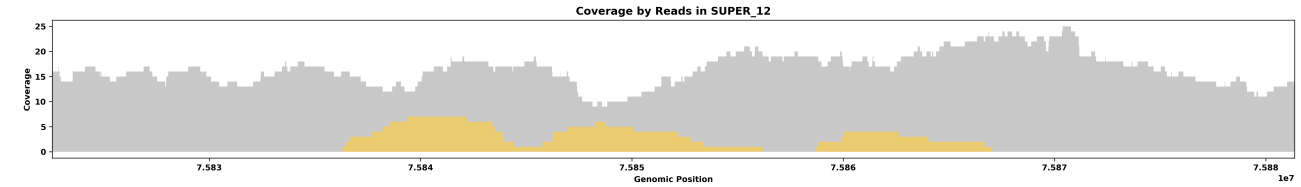
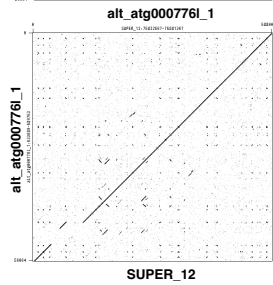
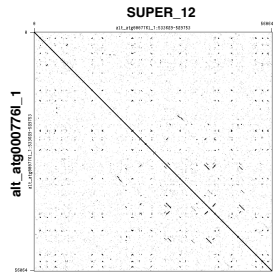
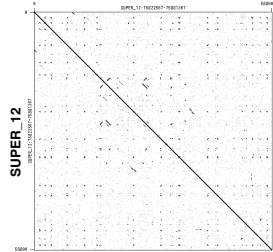
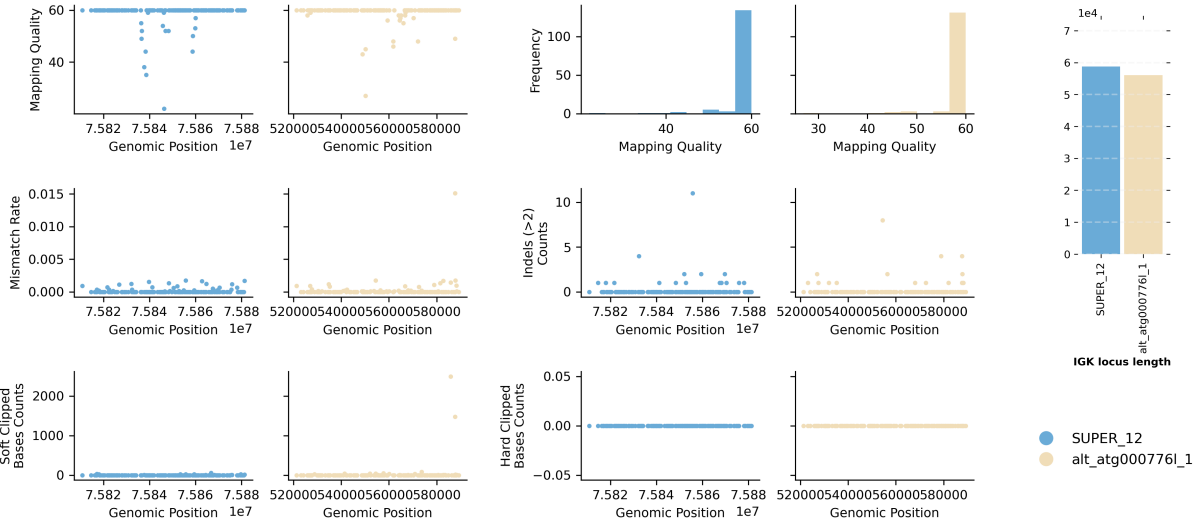
Species ID: mDelDel1

Common Name: saddleback dolphin

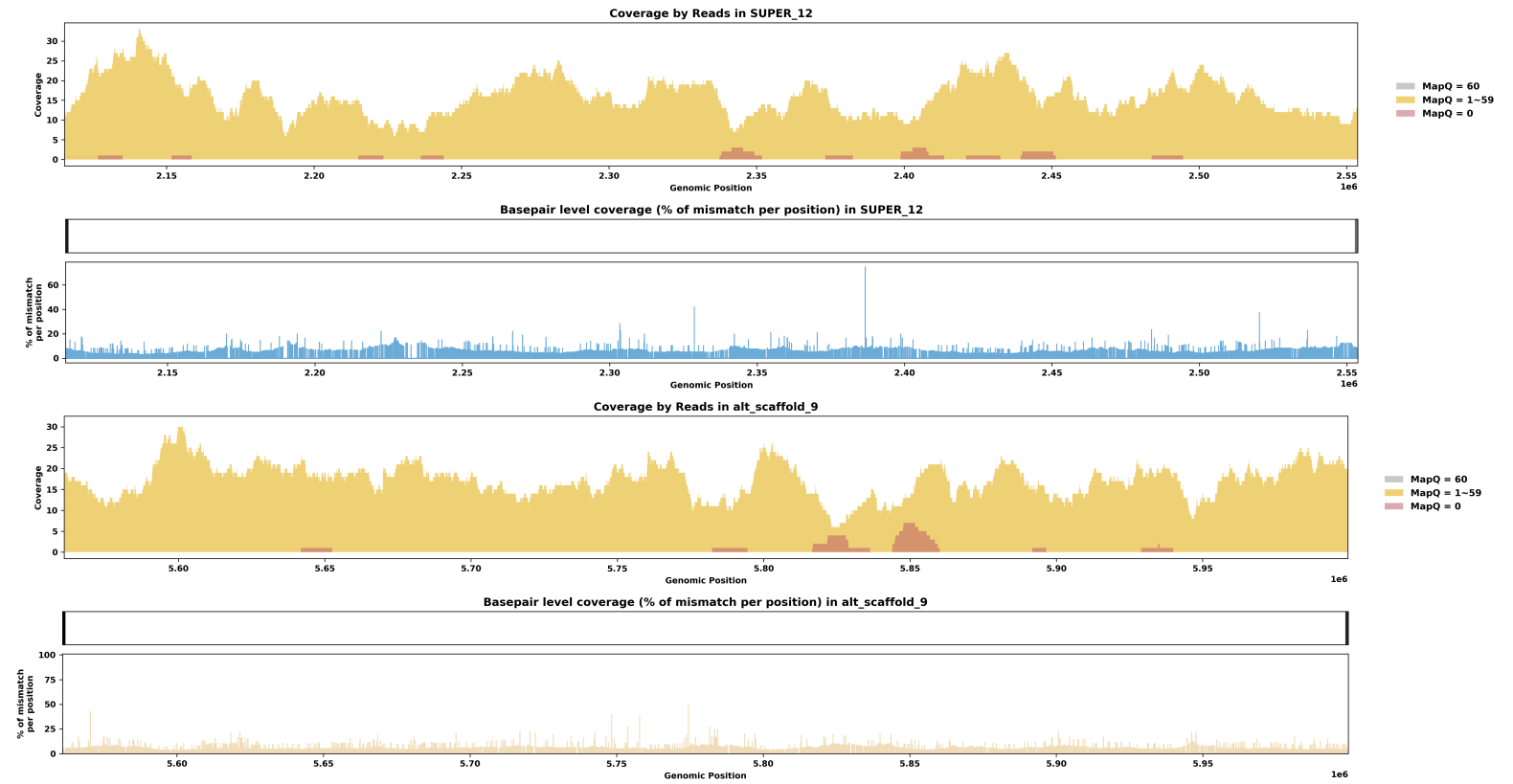
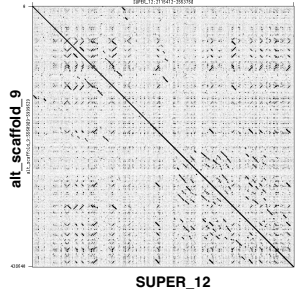
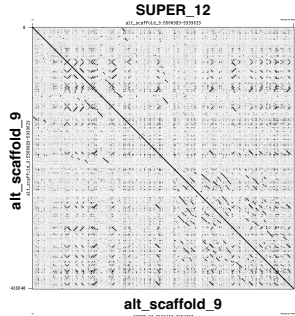
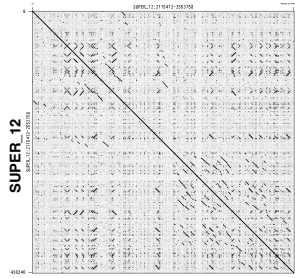
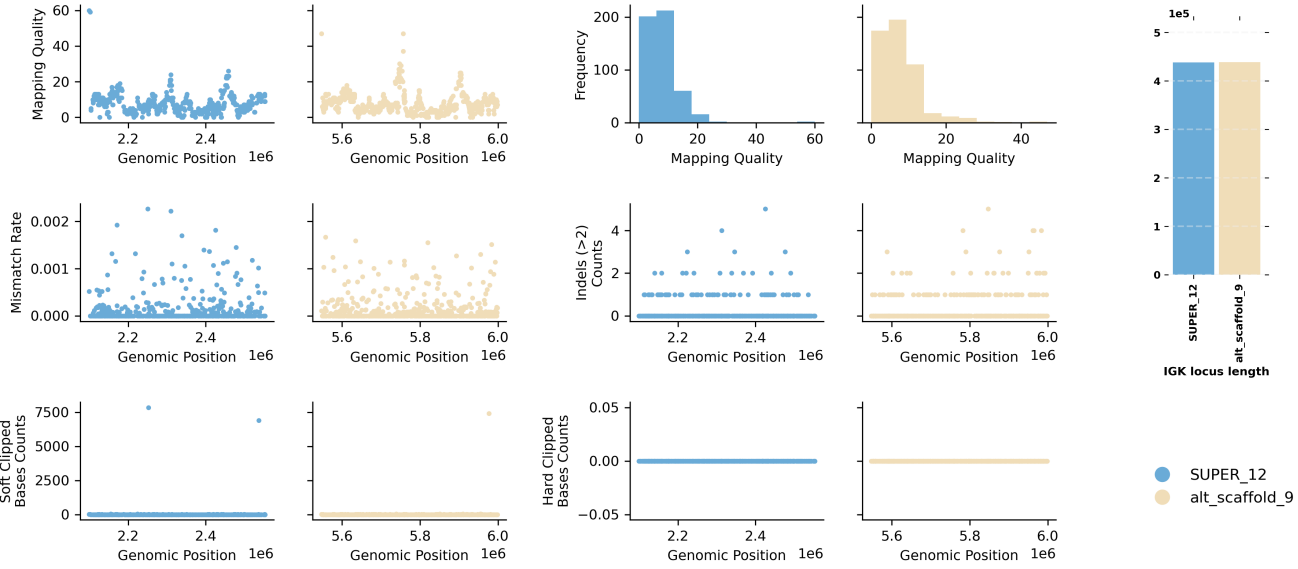
Scientific Name: Delphinus delphis

Assembly Type: Not Haplotype Resolved

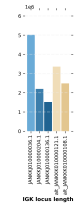
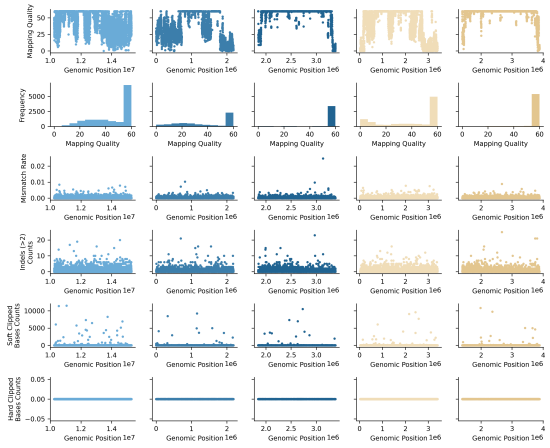
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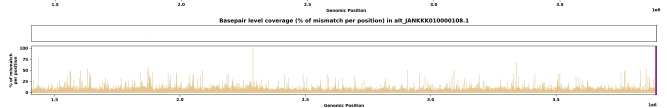
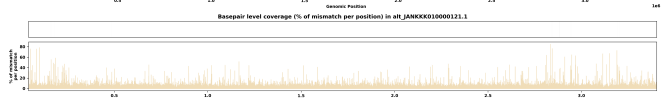
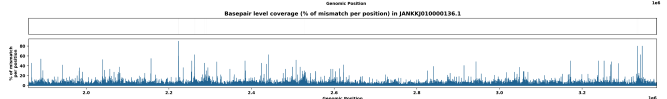
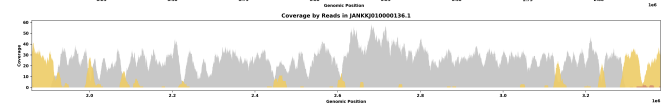
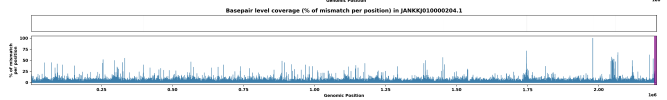
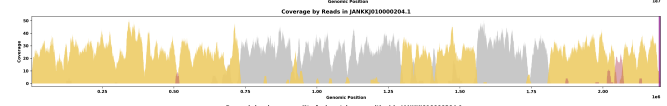
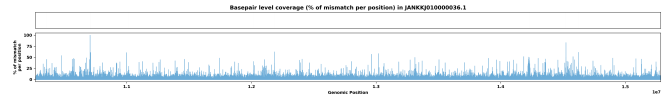
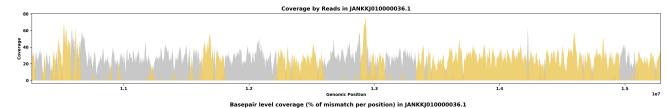
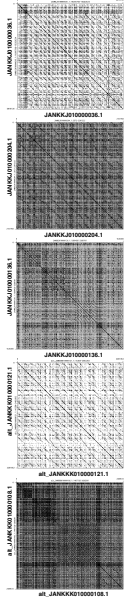
Species ID: mDicBic1
 Common Name: black rhinoceros
 Scientific Name: *Diceros bicornis*
 Assembly Type: Haplotype Resolved
 Data Source: VGP



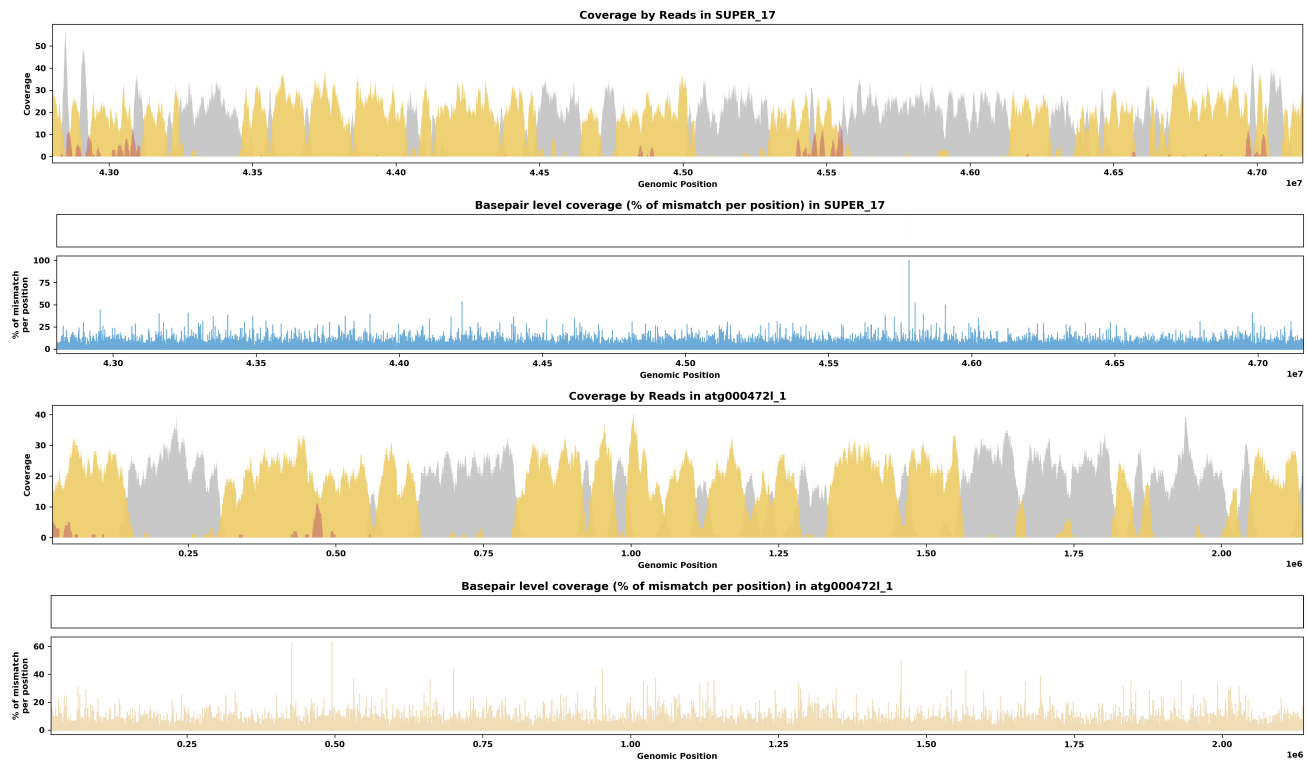
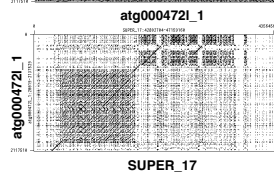
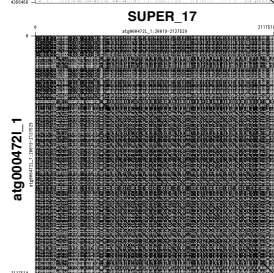
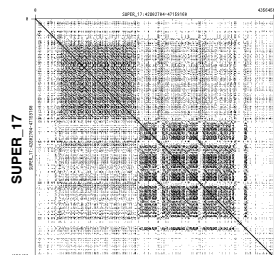
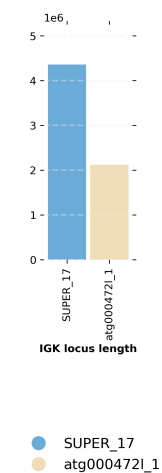
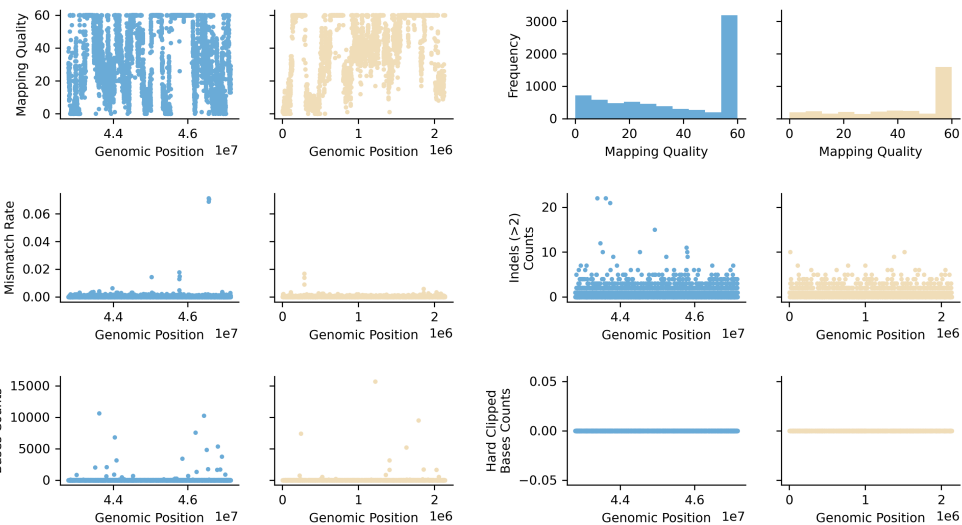
Species ID: mDyMer1
 Common Name: Meriam Kangaroo Rat
 Scientific Name: Dipodomys merriami
 Assembly Type: Not Haplotype Resolved
 Data Source: CCDF



● primary JANKK01000036.1
 ● primary JANKK01000024.1
 ● primary JANKK01000136.1
 ● alternate alt_JANXXX01000121.1
 ● alternate alt_JANXXX0000108.1



Species ID: mEleMax1
 Common Name: Asiatic Elephant
 Scientific Name: *Elephas maximus*
 Assembly Type: Not Haplotype Resolved
 Data Source: VGP



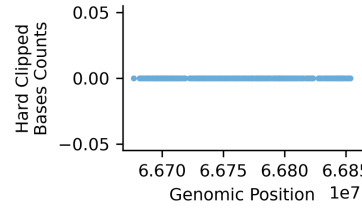
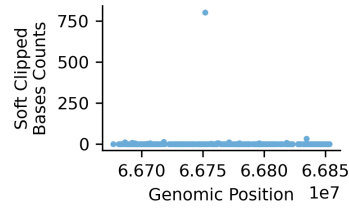
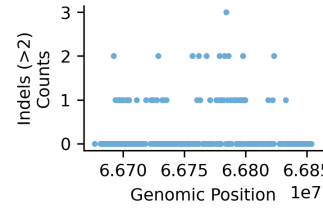
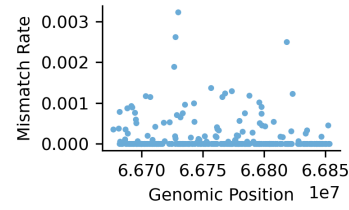
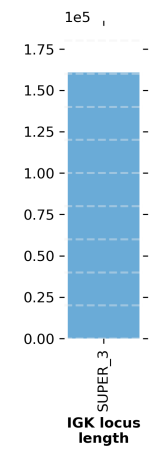
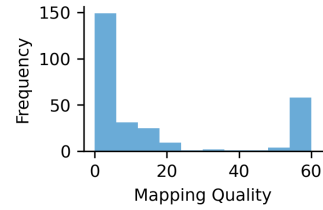
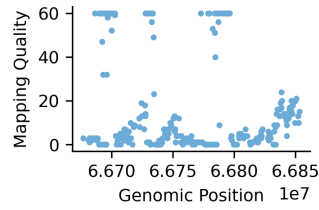
Species ID: mEriEur2

Common Name: western European hedgehog

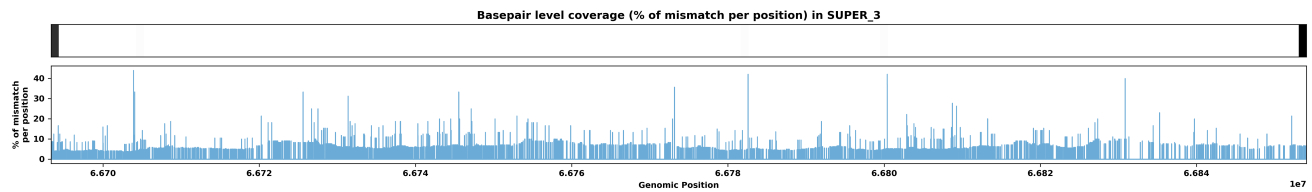
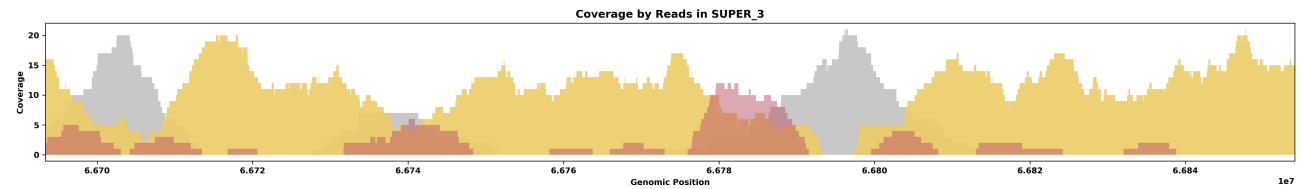
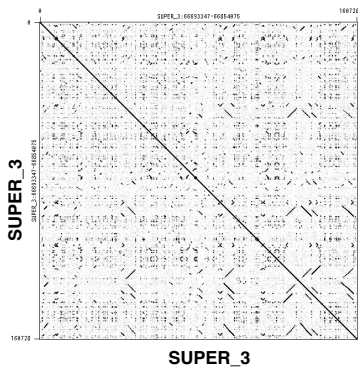
Scientific Name: Erinaceus europaeus

Assembly Type: Not Haplotype Resolved

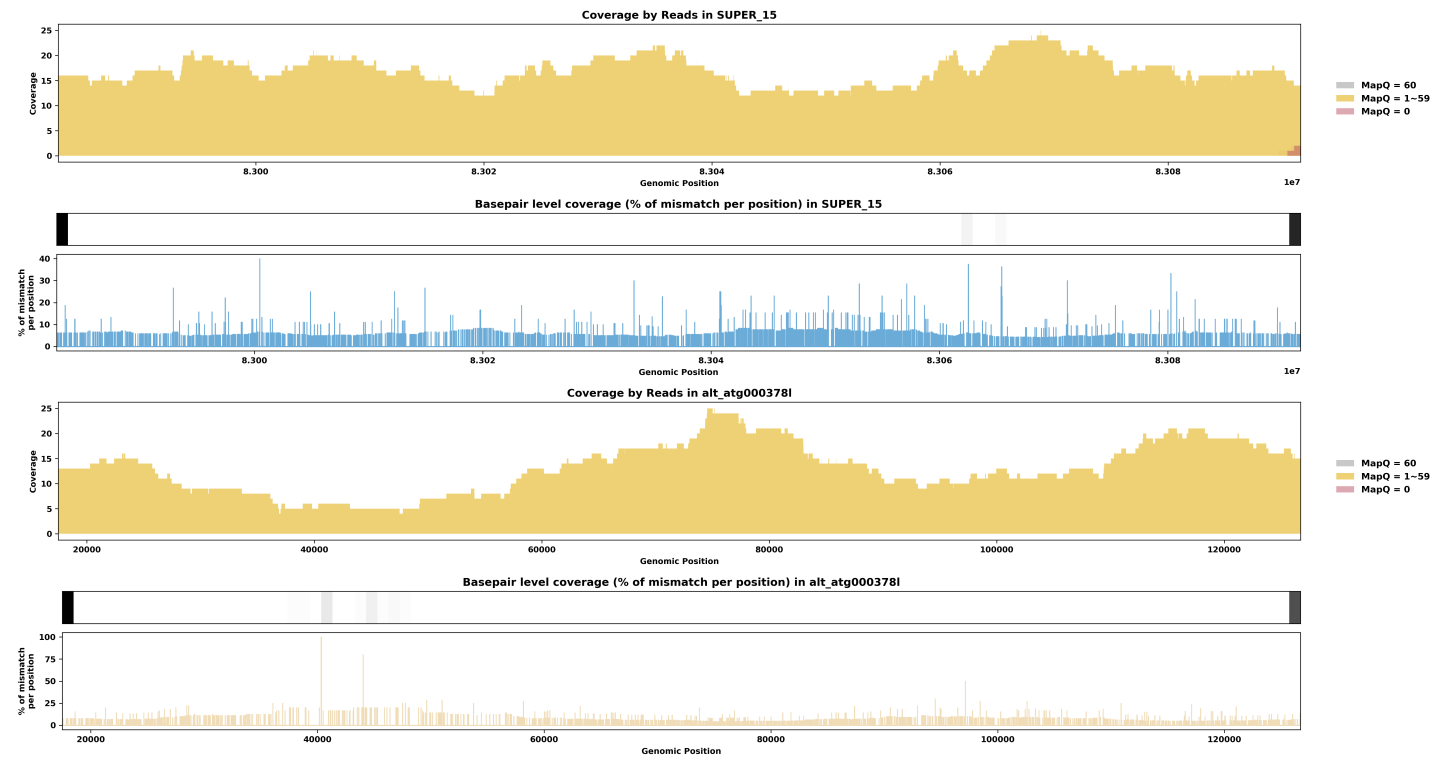
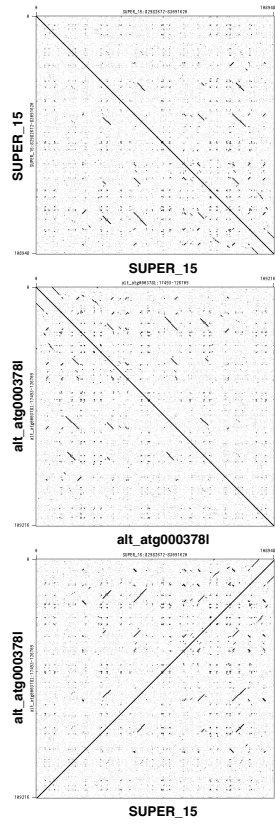
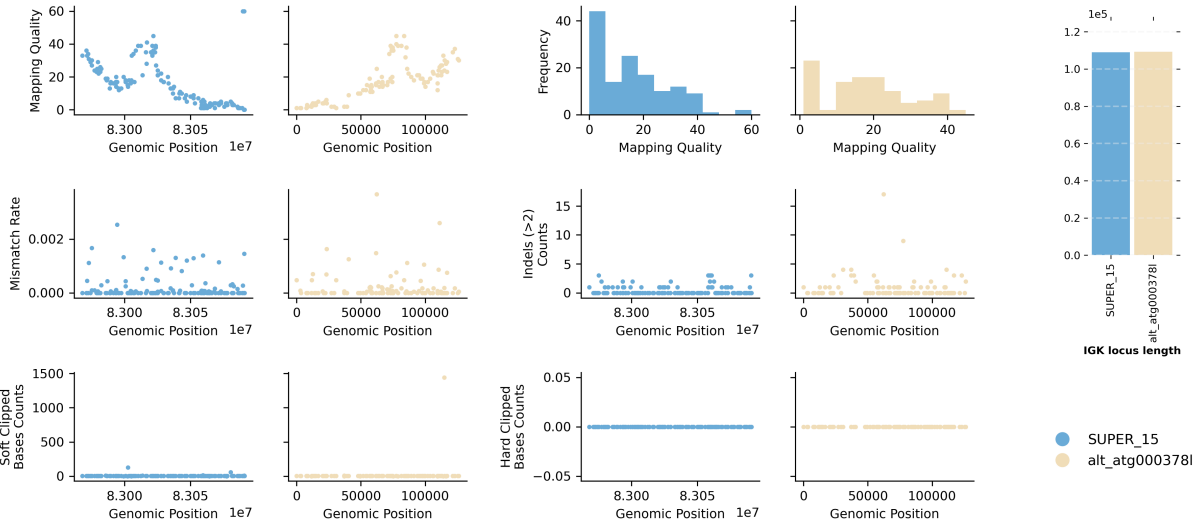
Data Source: VGP



● SUPER_3



Species ID: mEscRob2
 Common Name: grey whale
 Scientific Name: *Eschrichtius robustus*
 Assembly Type: Not Haplotype Resolved
 Data Source: VGP



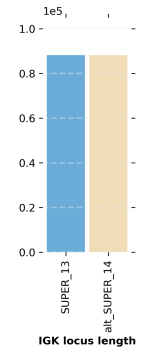
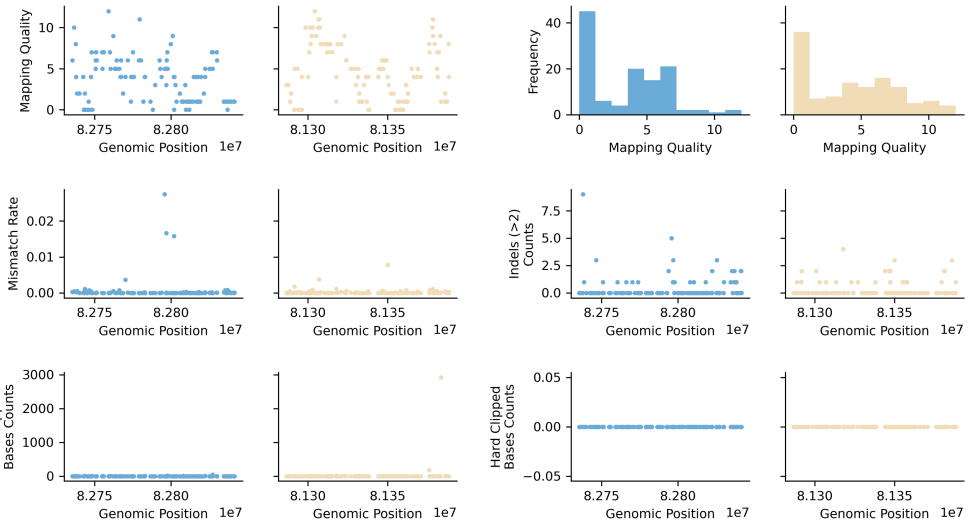
Species ID: mEubGla1

Common Name: North Atlantic right whale

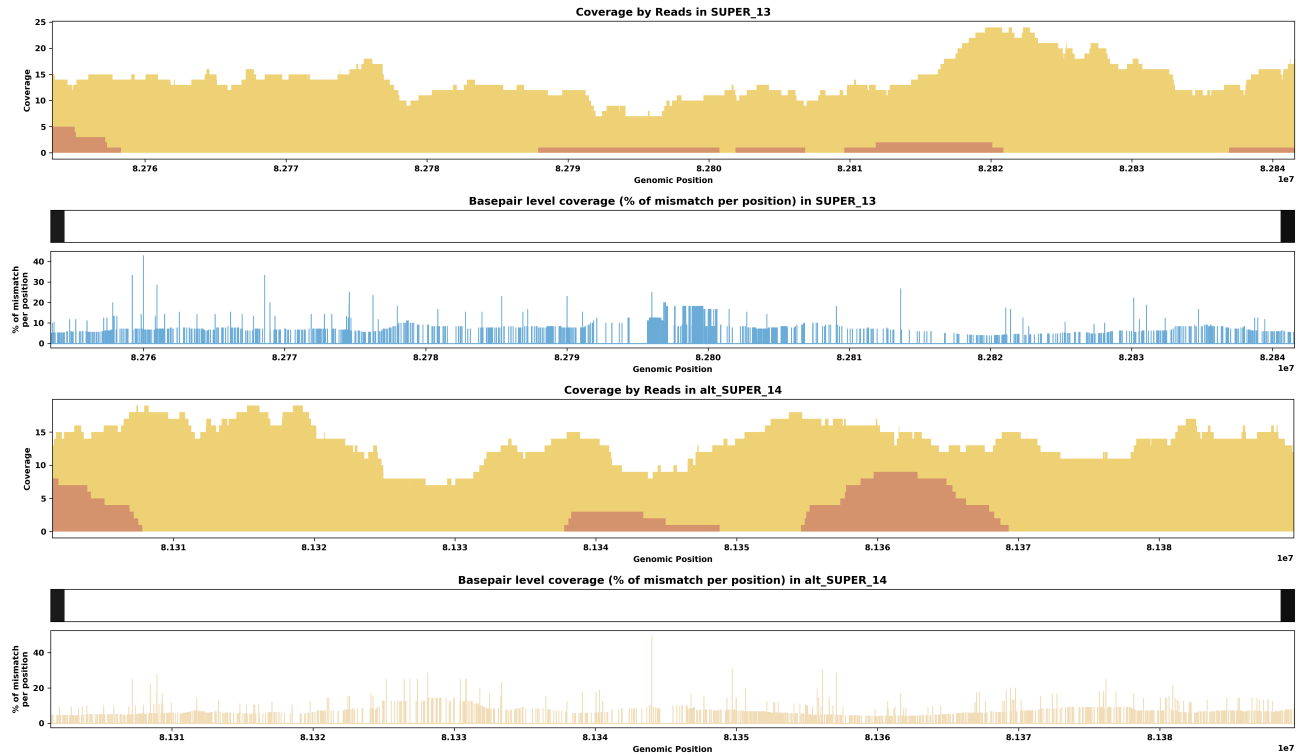
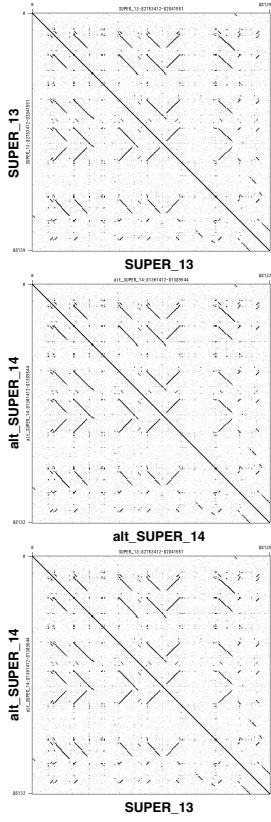
Scientific Name: Eubalaena glacialis

Assembly Type: Haplotype Resolved

Data Source: VGP



● SUPER_13
● alt_SUPER_14



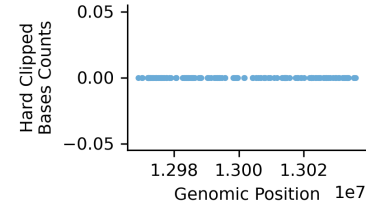
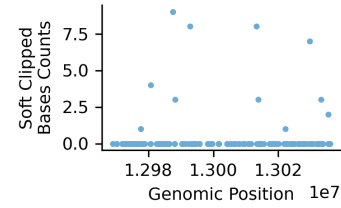
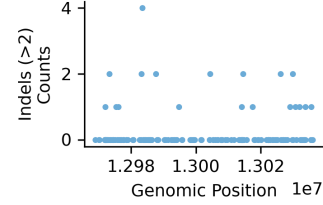
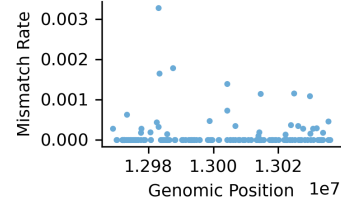
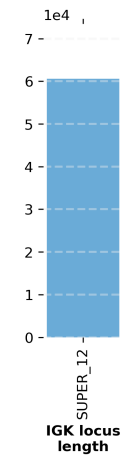
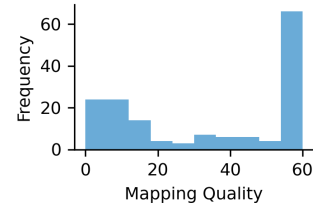
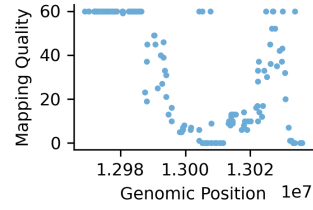
Species ID: mGloMel1

Common Name: long-finned pilot whale

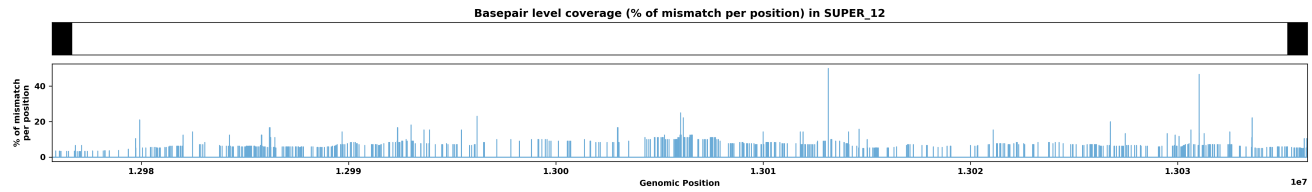
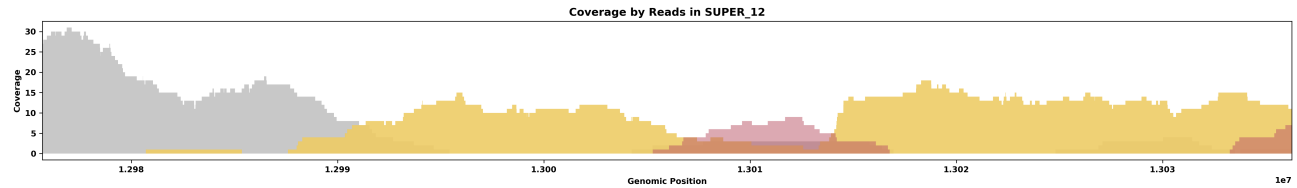
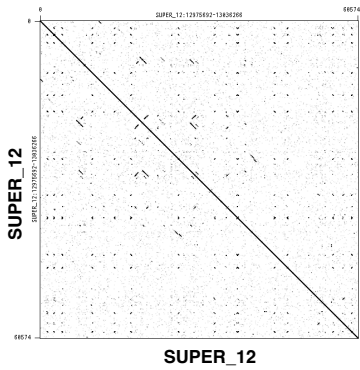
Scientific Name: Globicephala melas

Assembly Type: Not Haplotype Resolved

Data Source: VGP



● SUPER_12



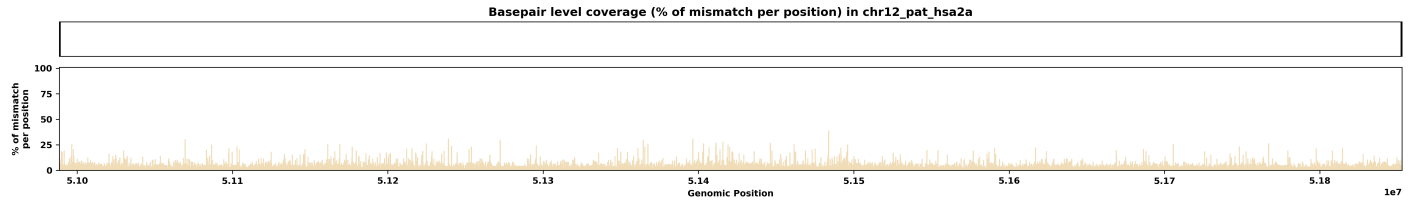
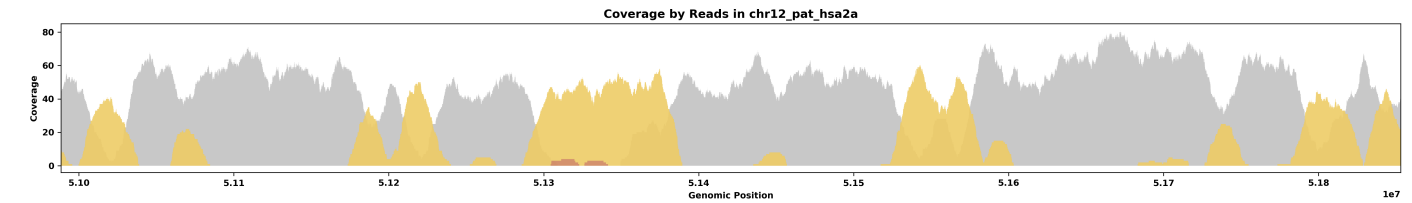
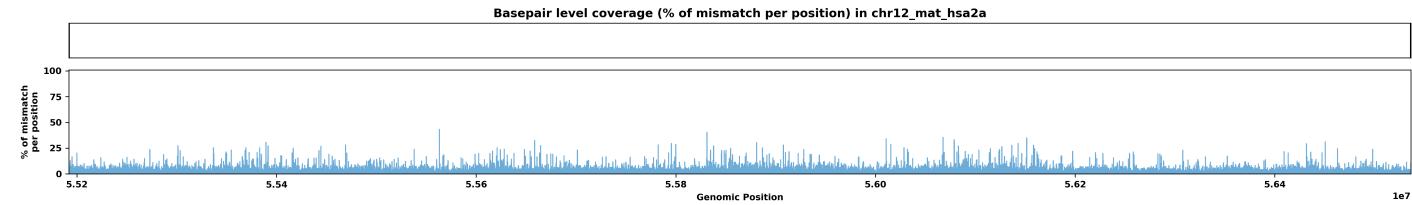
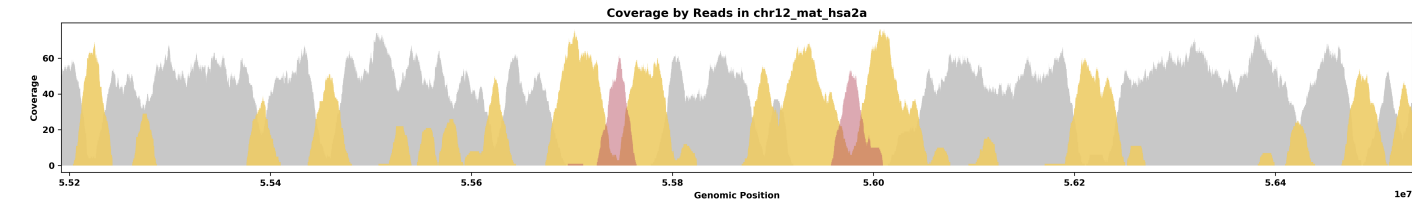
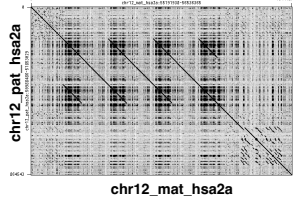
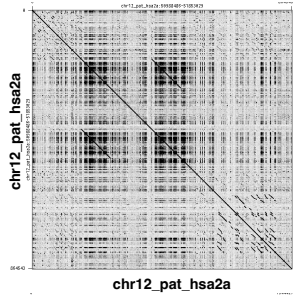
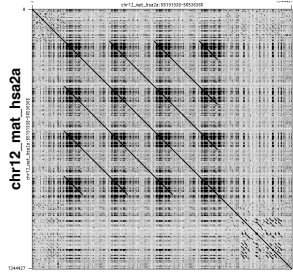
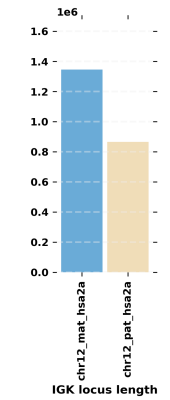
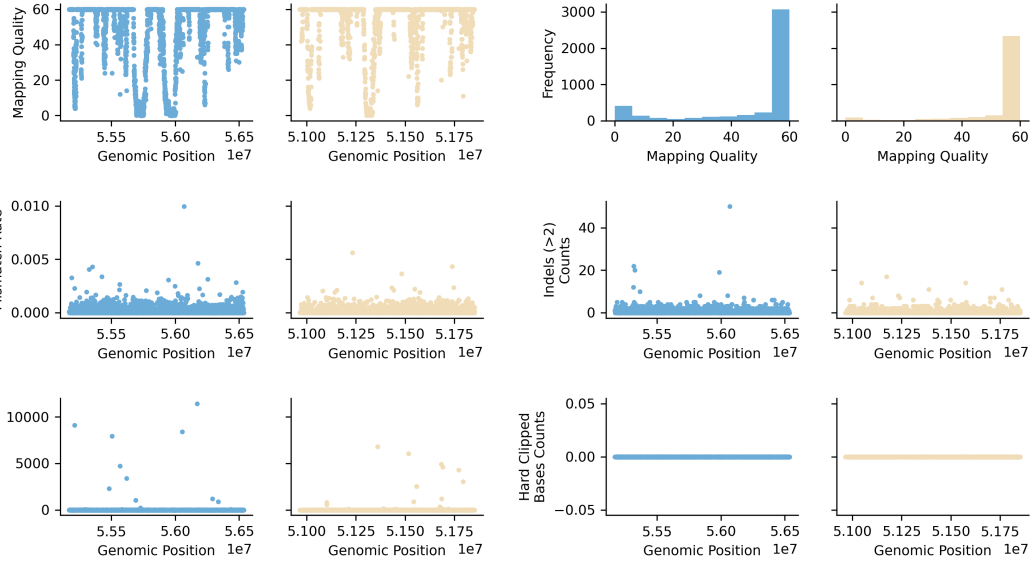
Species ID: mGorGor1

Common Name: Gorilla

Scientific Name: Gorilla_gorilla

Assembly Type: Haplotype Resolved

Data Source: T2T Primate



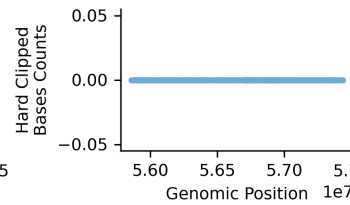
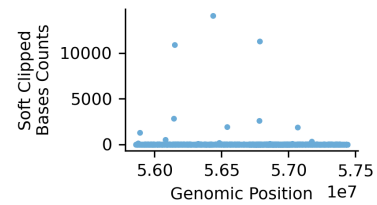
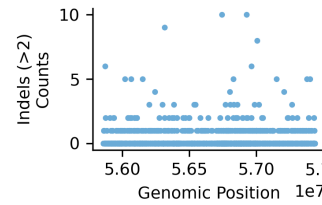
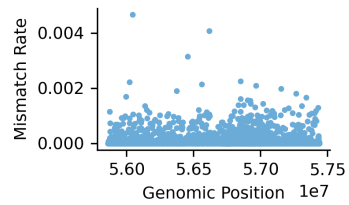
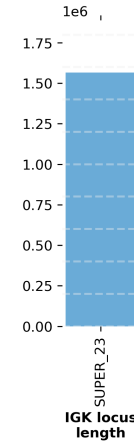
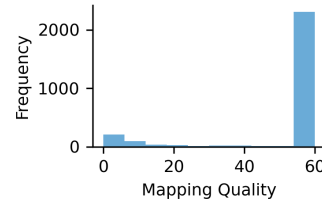
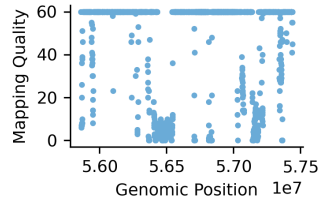
Species ID: mHetBru1

Common Name: Yellow-spotted hyrax

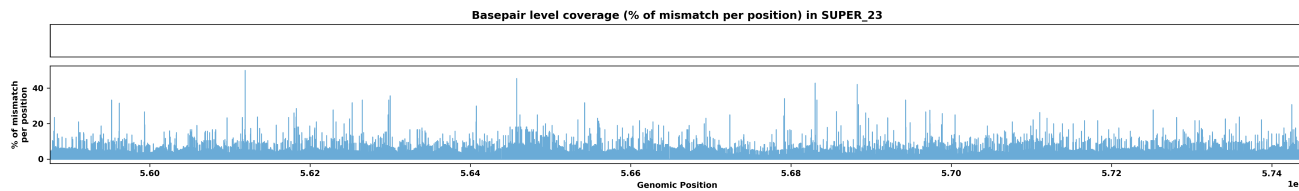
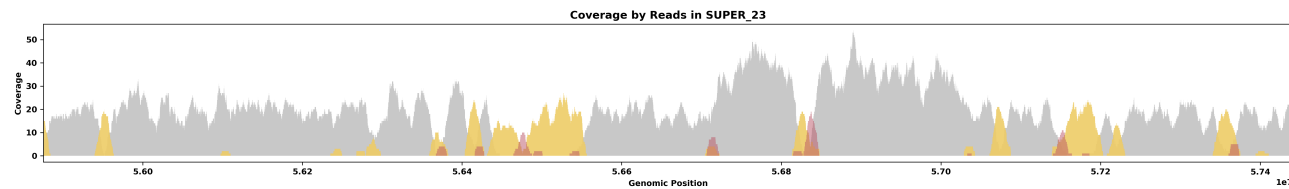
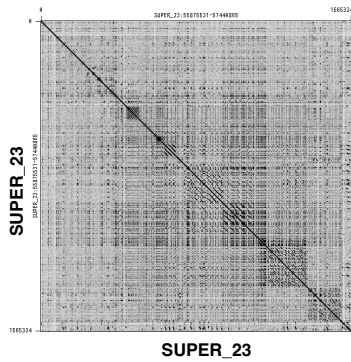
Scientific Name: Heterohyrax brucei

Assembly Type: Not Haplotype Resolved

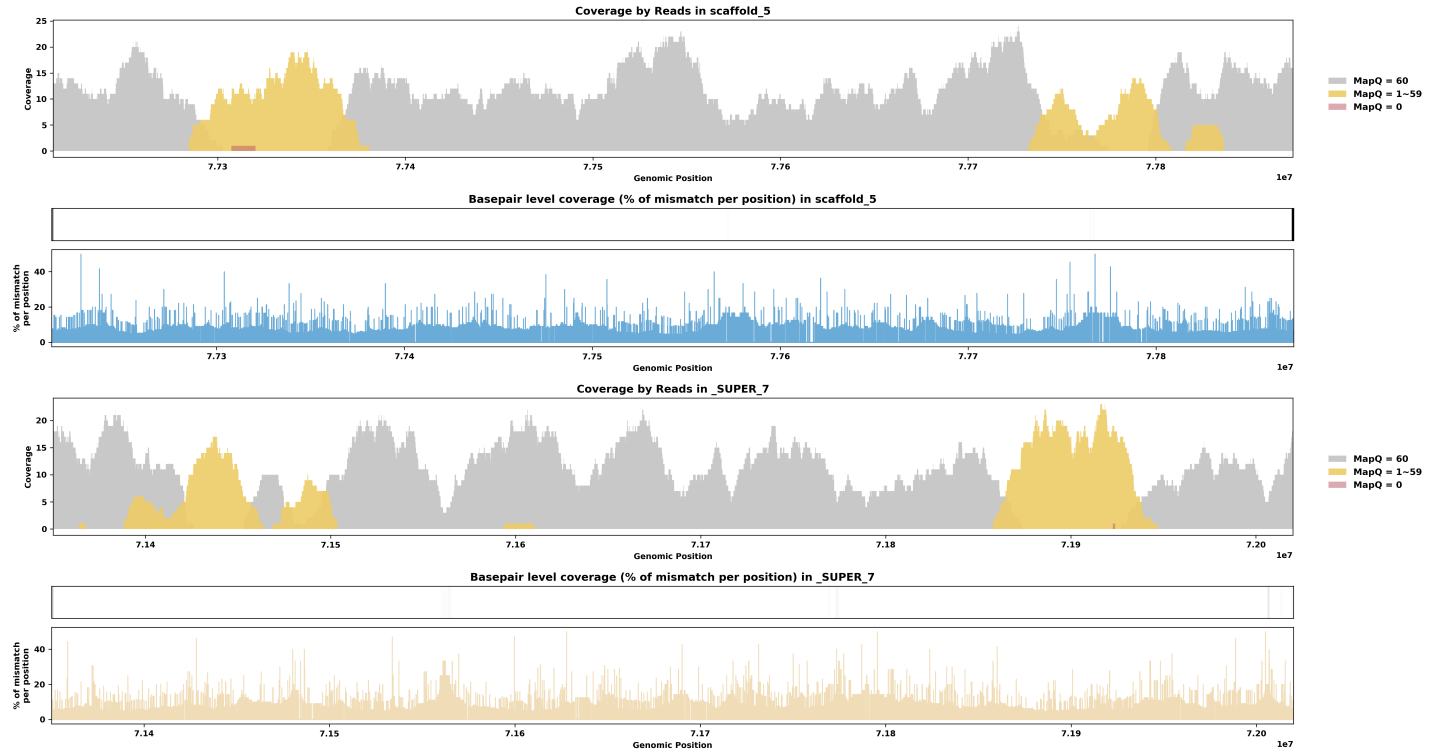
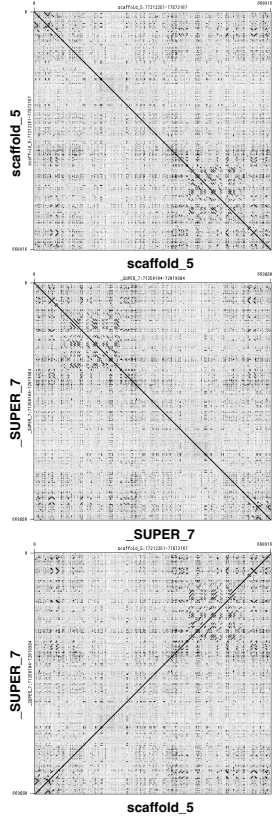
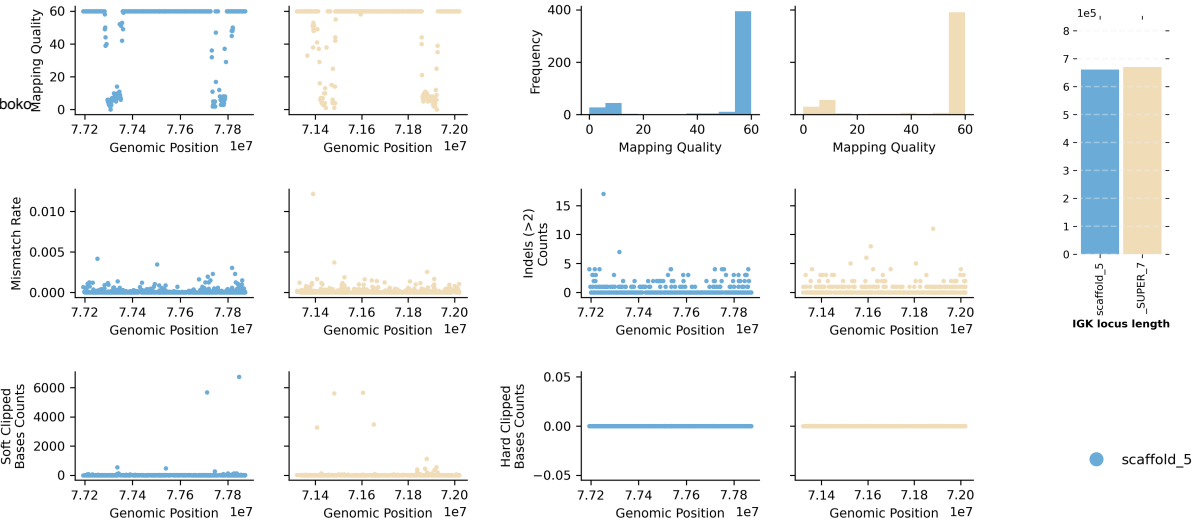
Data Source: VGP



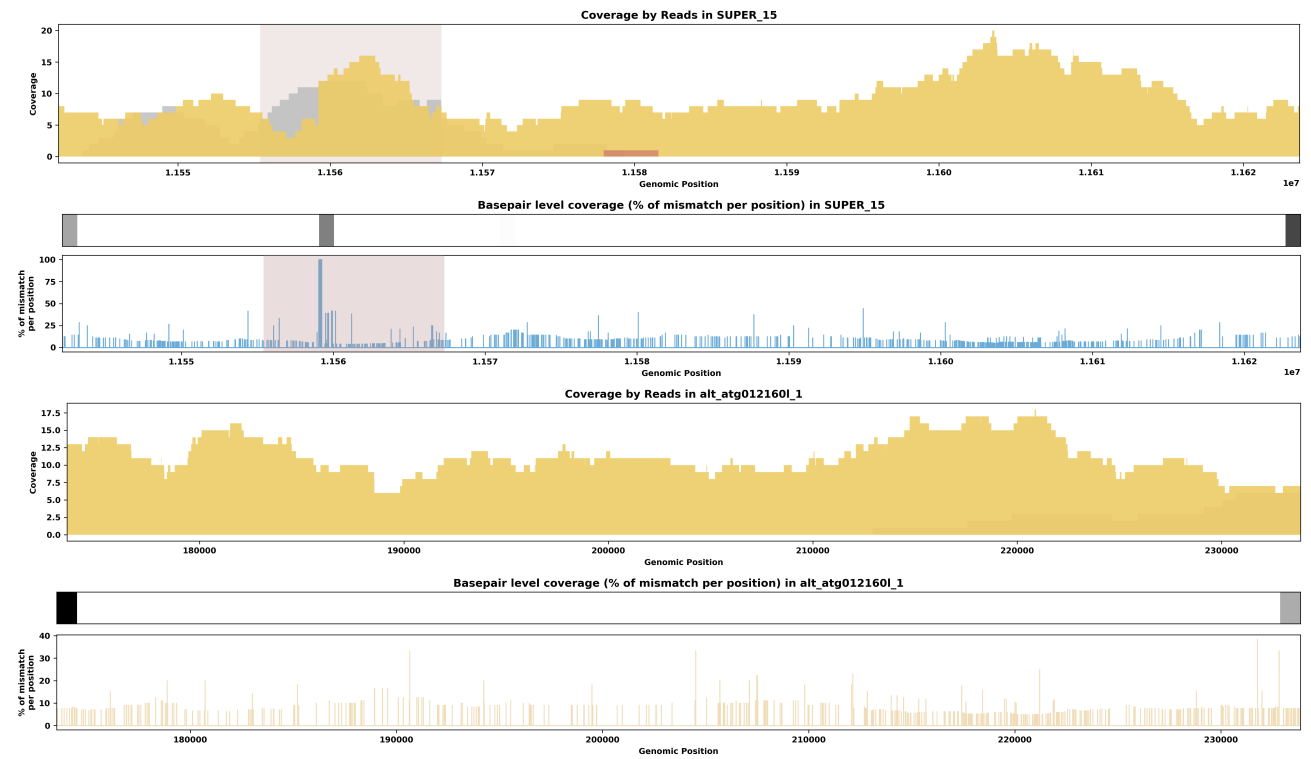
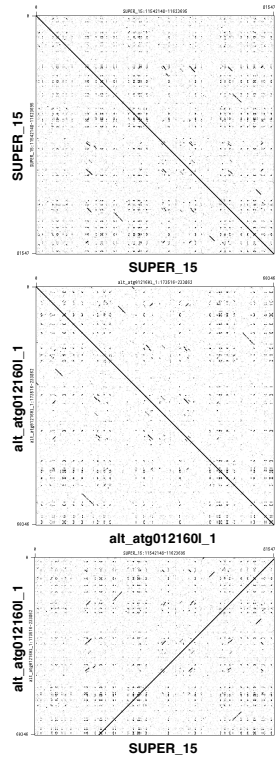
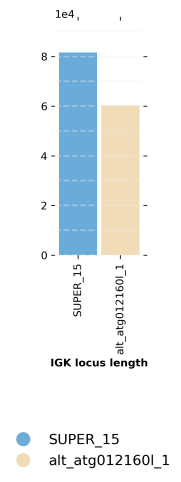
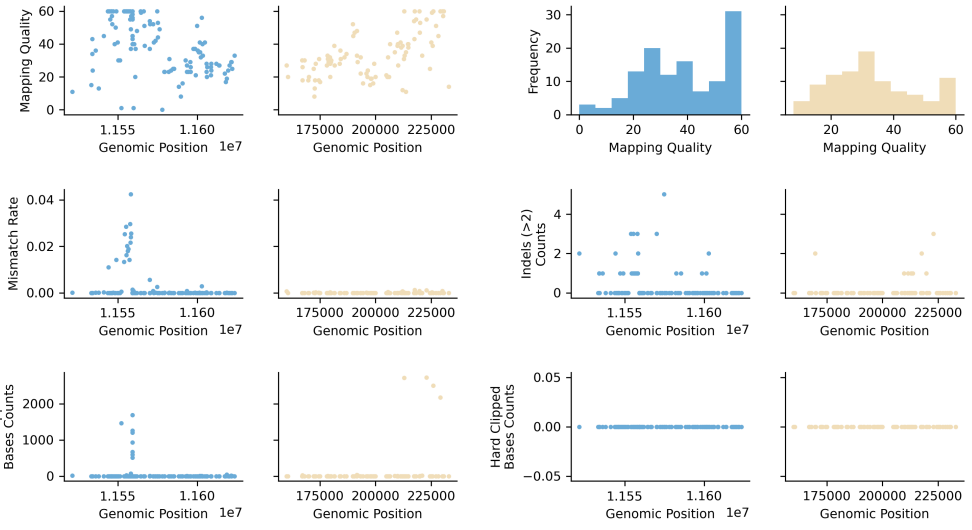
● SUPER_23



Species ID: mHipAmp2
 Common Name: hippopotamus
 Scientific Name: Hippopotamus amphibius kiboko
 Assembly Type: Haplotype Resolved
 Data Source: VGP

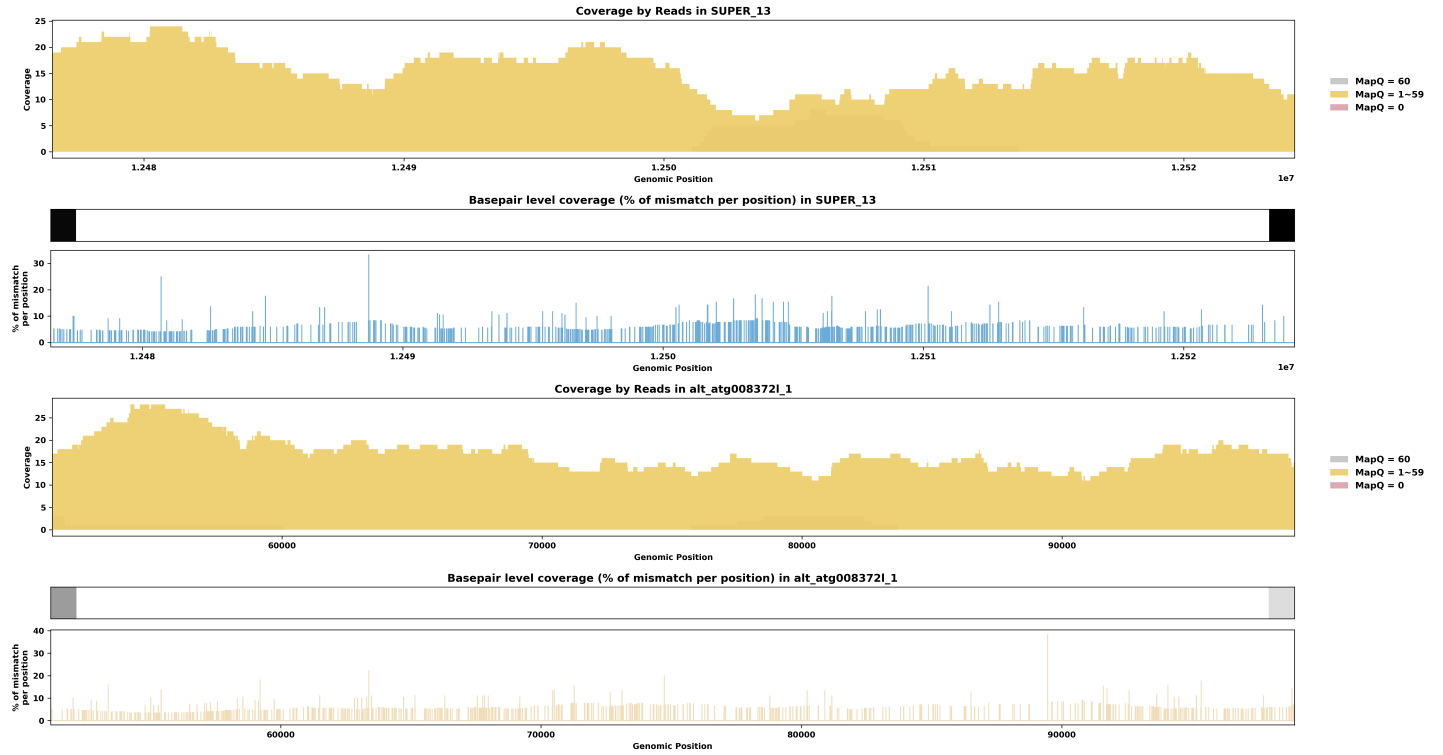
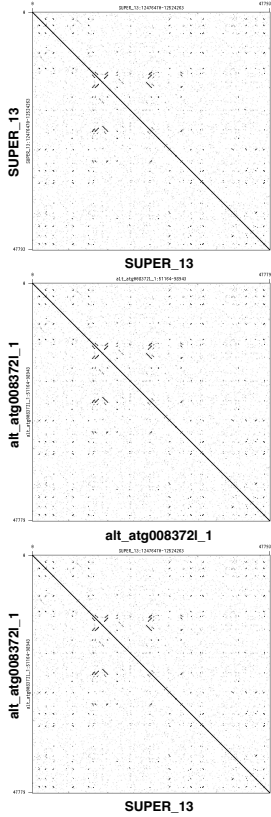
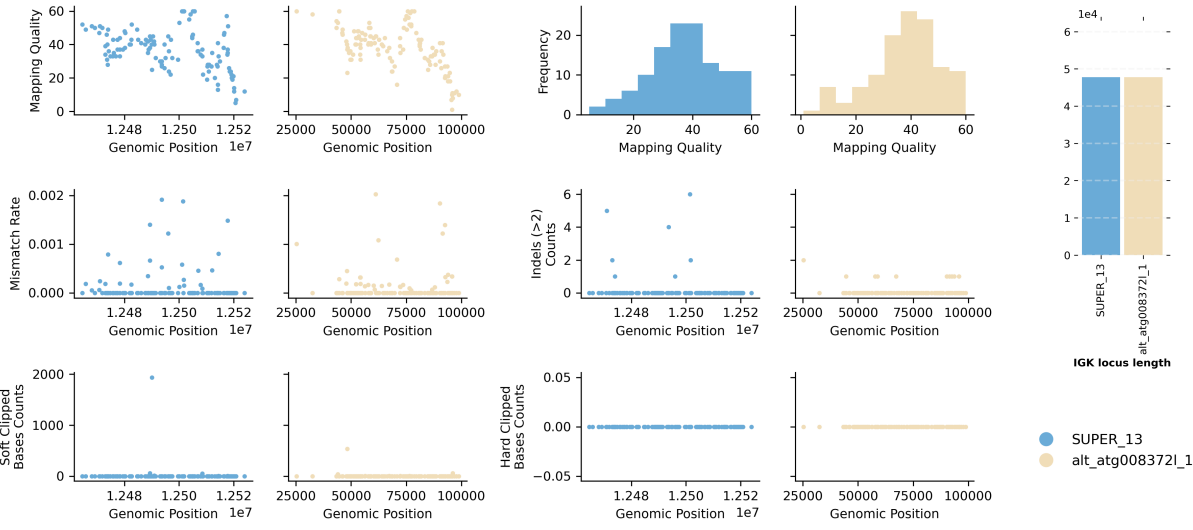


Species ID: mHypAmp2
 Common Name: northern bottlenose whale
 Scientific Name: *Hyperoodon ampullatus*
 Assembly Type: Not Haplotype Resolved
 Data Source: VGP

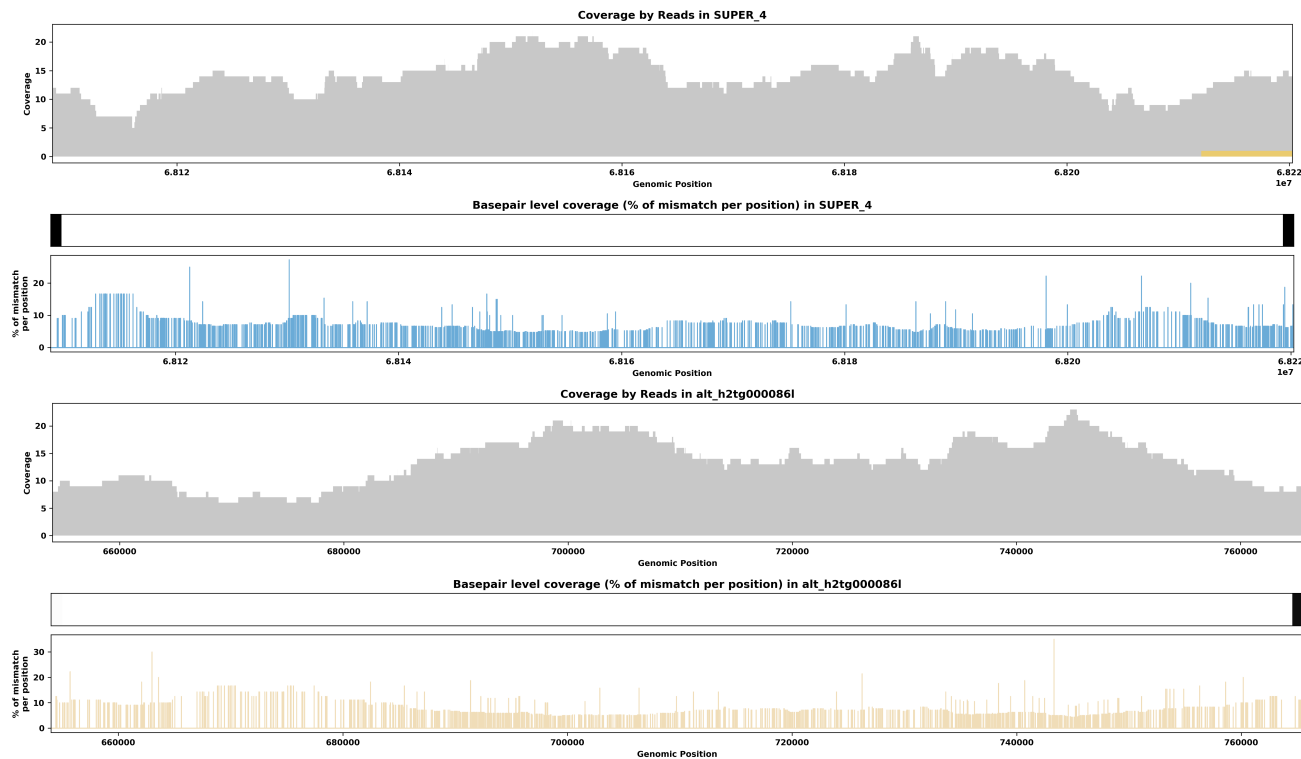
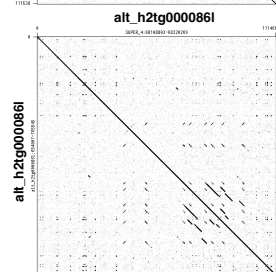
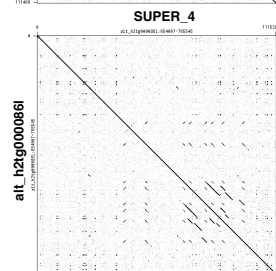
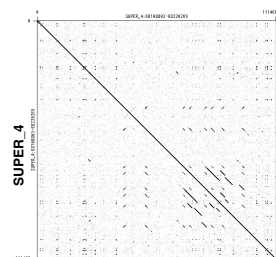
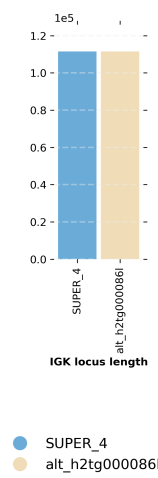
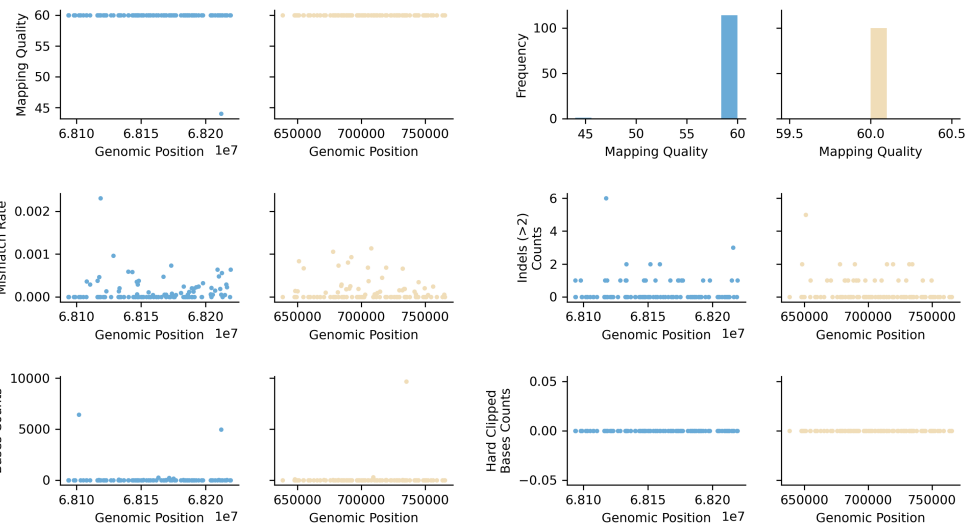


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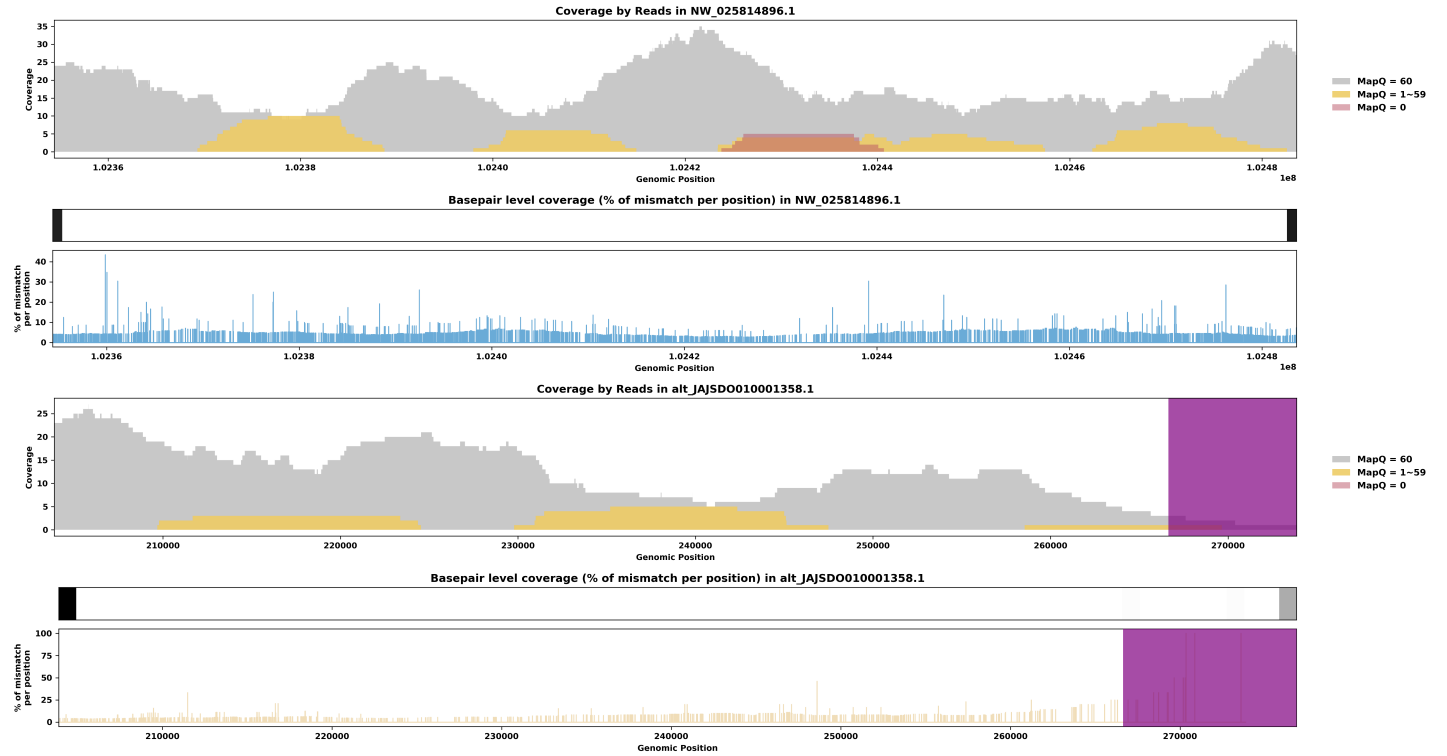
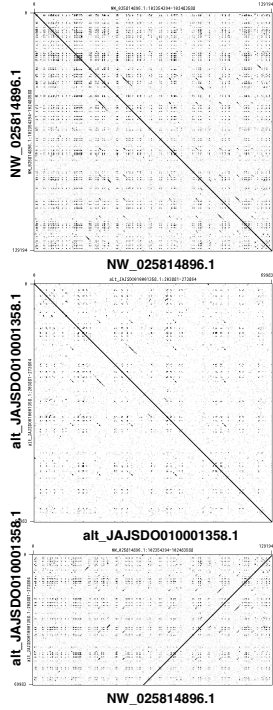
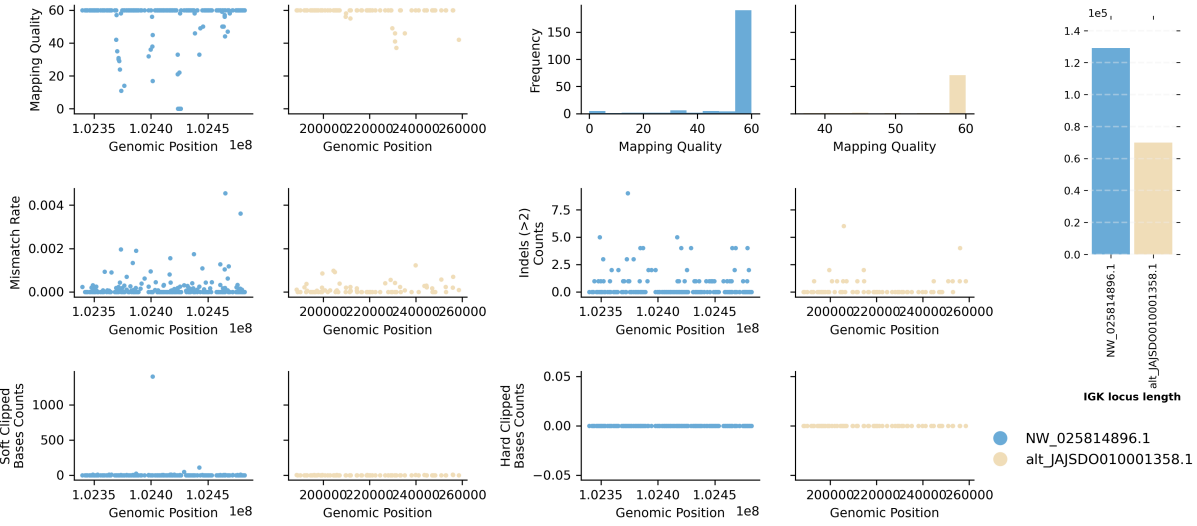
Species ID: mLagAlb1
 Common Name: white-beaked dolphin
 Scientific Name: Lagenorhynchus albirostris
 Assembly Type: Not Haplotype Resolved
 Data Source: VGP



Species ID: mLemCat1
 Common Name: Ring-tailed lemur
 Scientific Name: Lemur catta
 Assembly Type: Not Haplotype Resolved
 Data Source: VGP



Species ID: mLynRuf1
 Common Name: Bobcat
 Scientific Name: Lynx rufus
 Assembly Type: Not Haplotype Resolved
 Data Source: CCGP



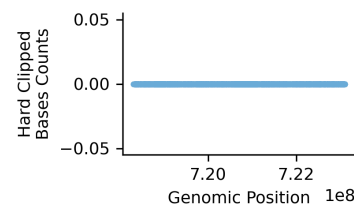
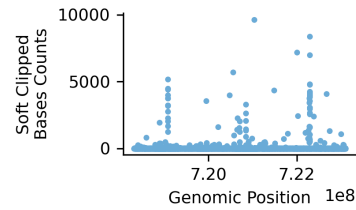
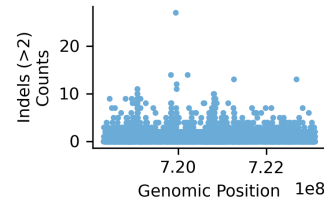
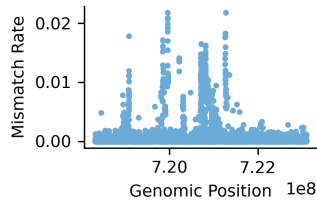
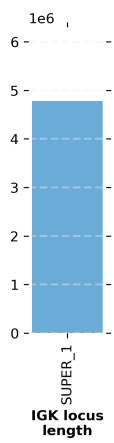
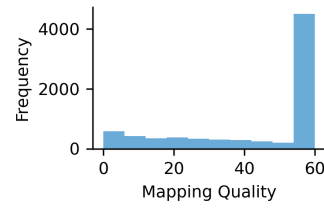
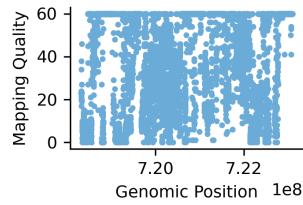
Species ID: mMacEug1

Common Name: tammar wallaby

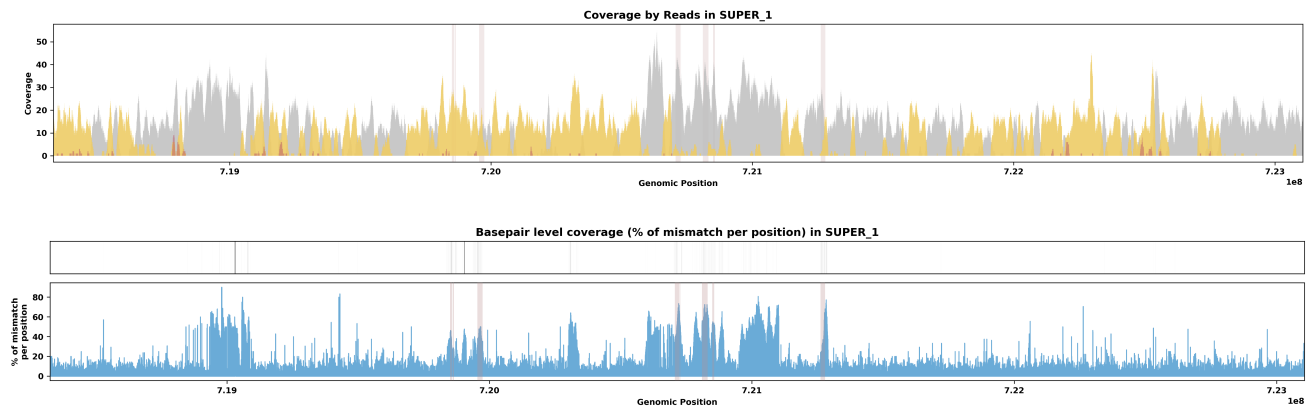
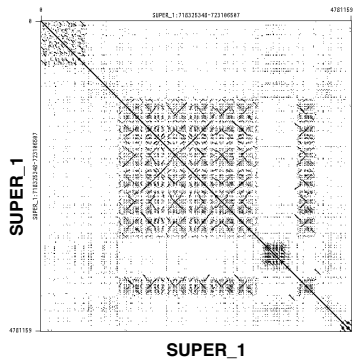
Scientific Name: Macropus eugenii

Assembly Type: Not Haplotype Resolved

Data Source: VGP



● SUPER_1



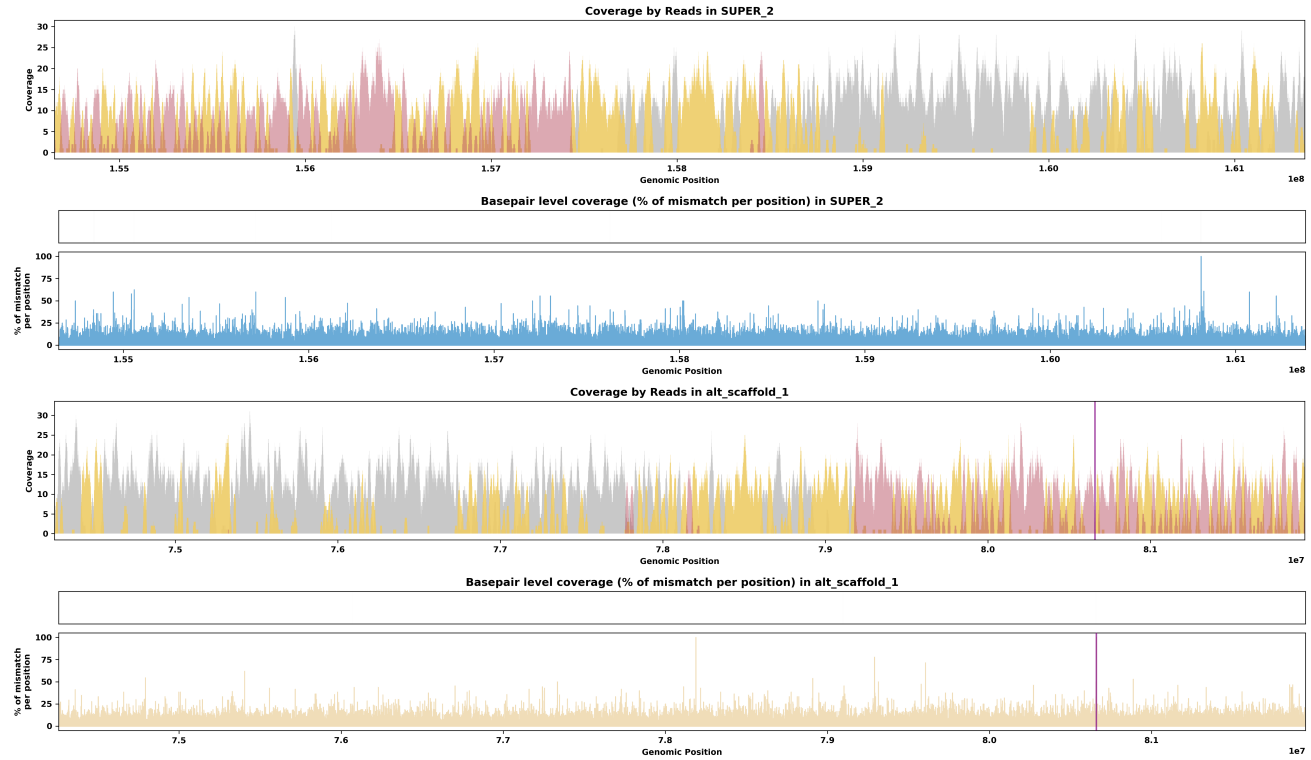
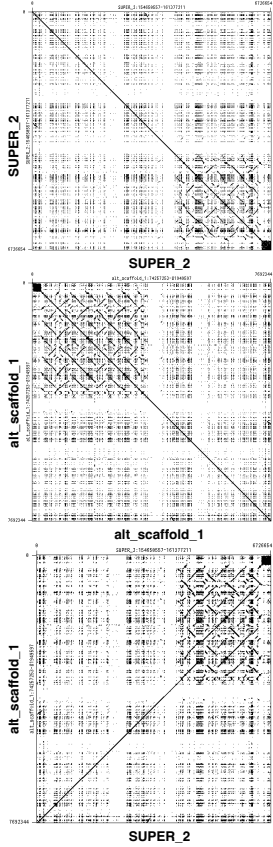
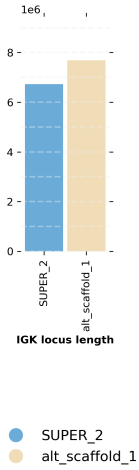
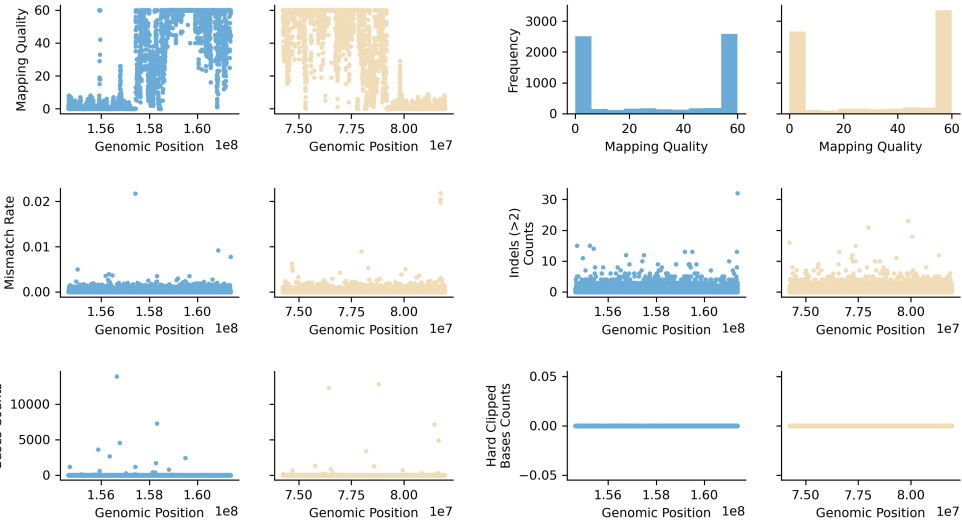
Species ID: mManPen7

Common Name: Chinese pangolin

Scientific Name: *Manis pentadactyla*

Assembly Type: Haplotype Resolved

Data Source: VGP



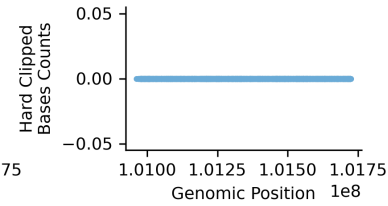
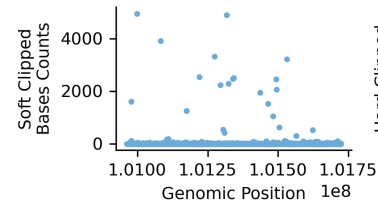
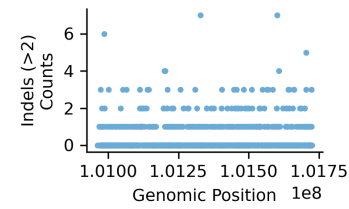
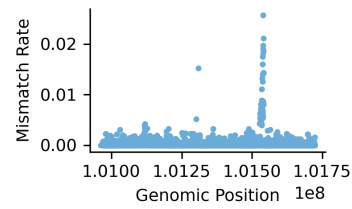
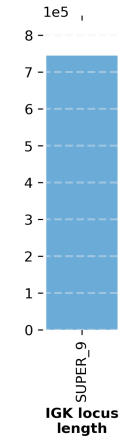
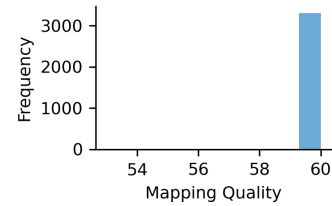
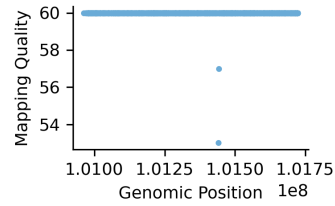
Species ID: mMarMar1

Common Name: European pine marten

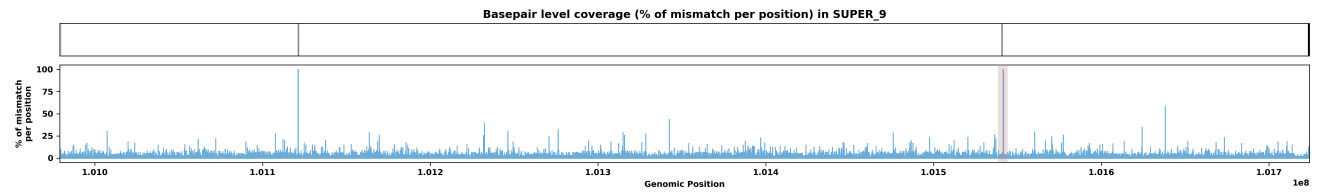
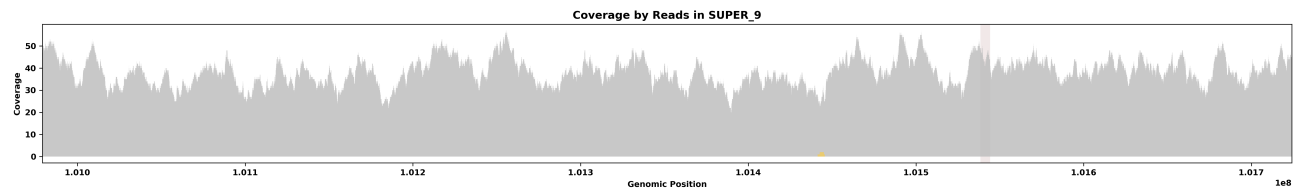
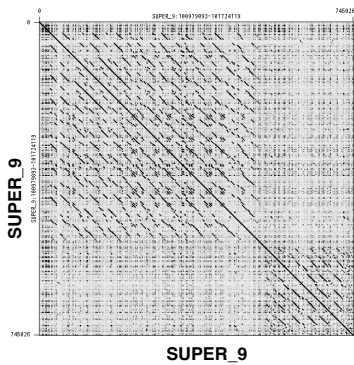
Scientific Name: *Martes martes*

Assembly Type: Not Haplotype Resolved

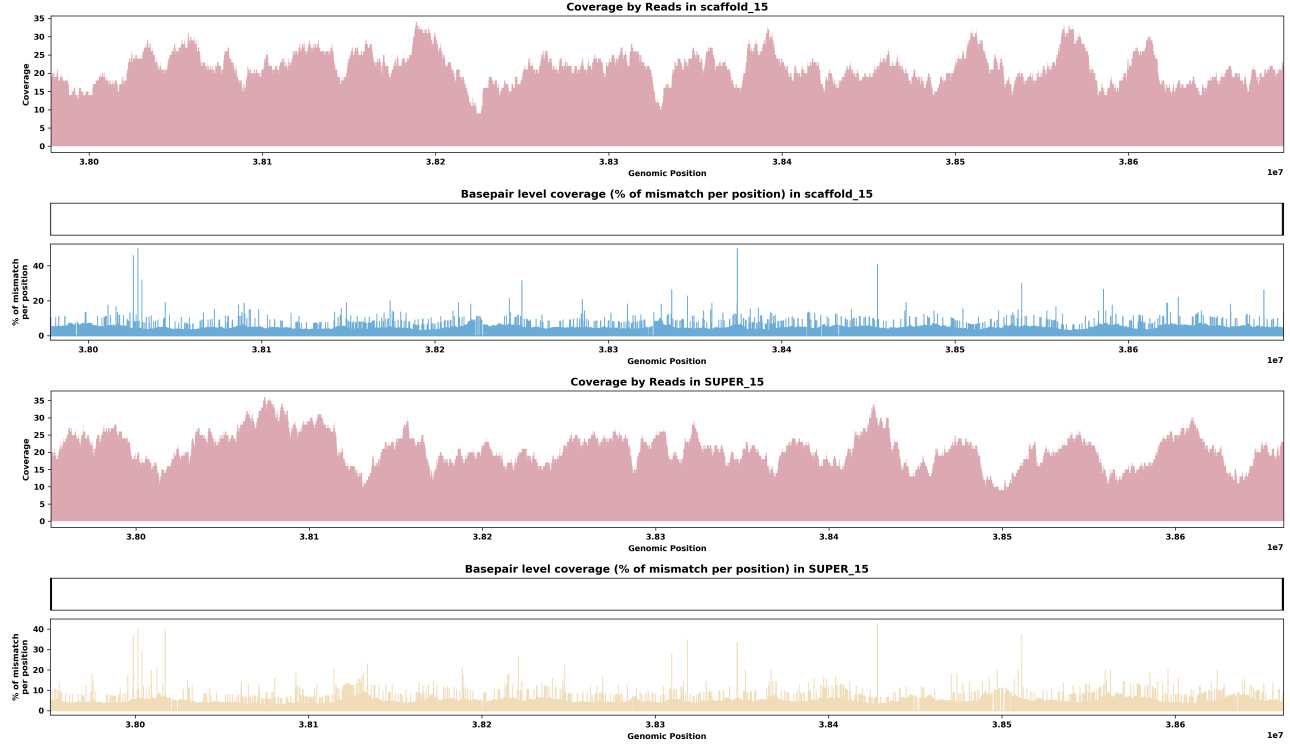
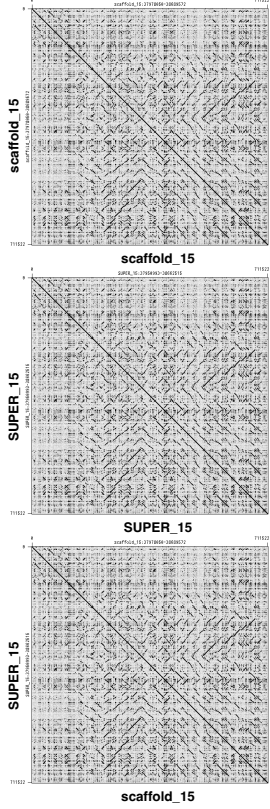
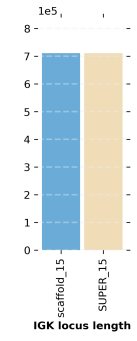
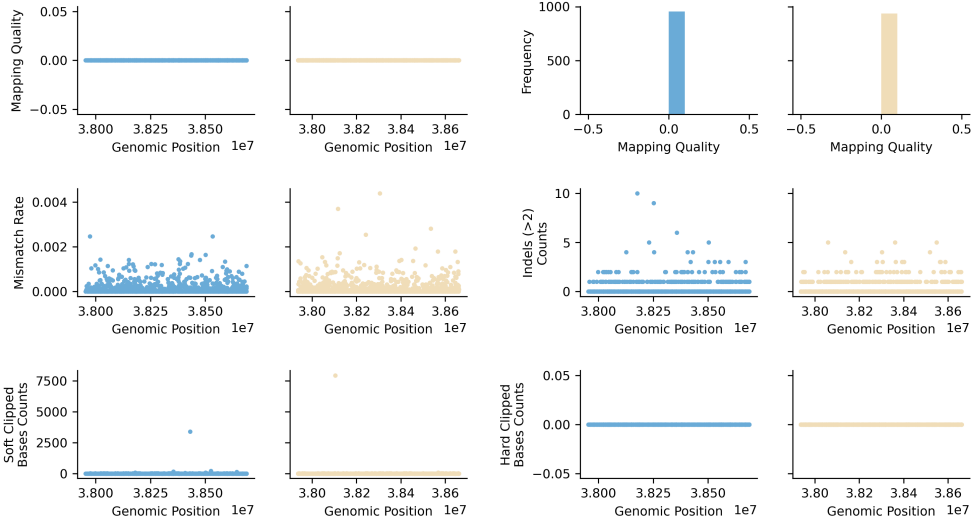
Data Source: VGP



● SUPER_9



Species ID: mMelMeI3
 Common Name: European badger
 Scientific Name: Meles meles
 Assembly Type: Haplotype Resolved
 Data Source: VGP



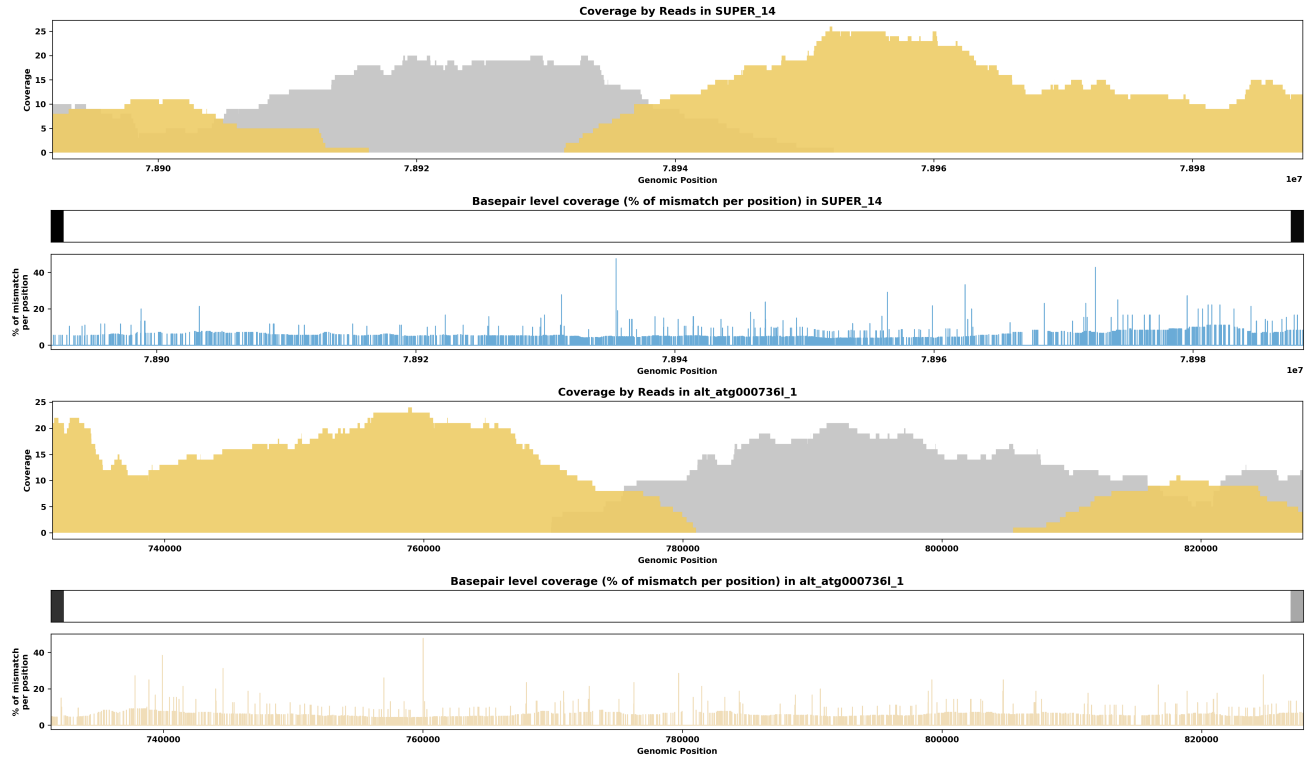
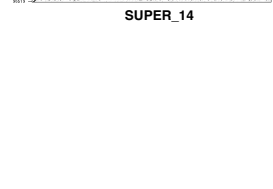
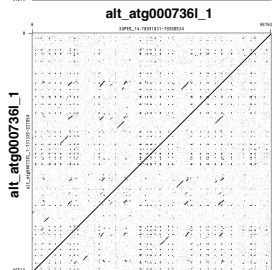
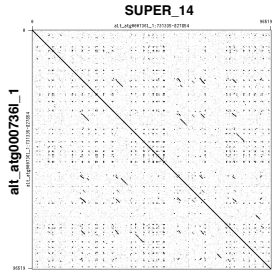
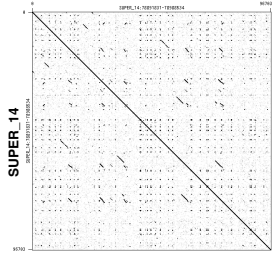
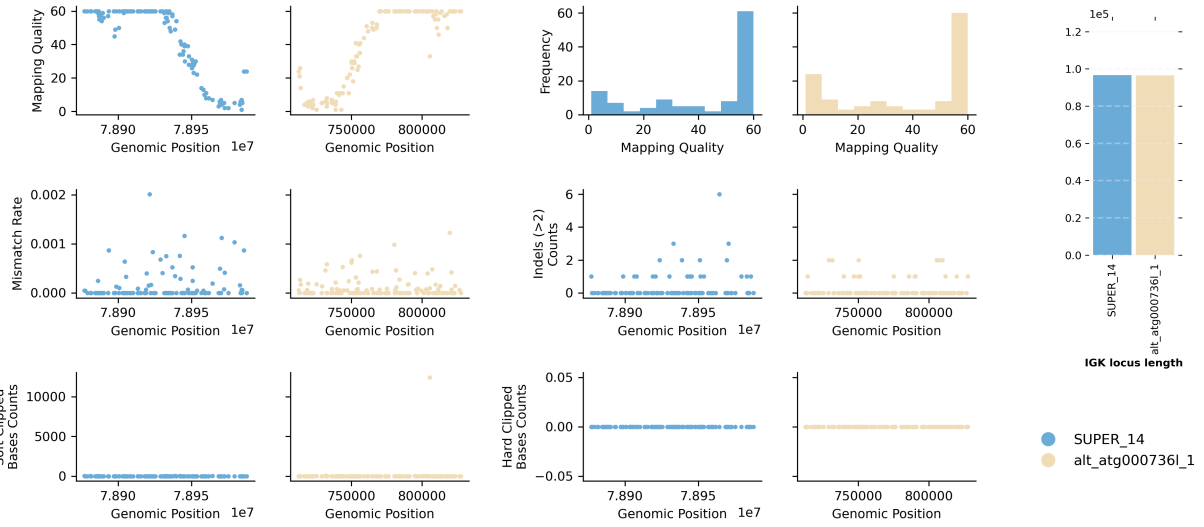
Species ID: mMesDen1

Common Name: Blainville's beaked whale

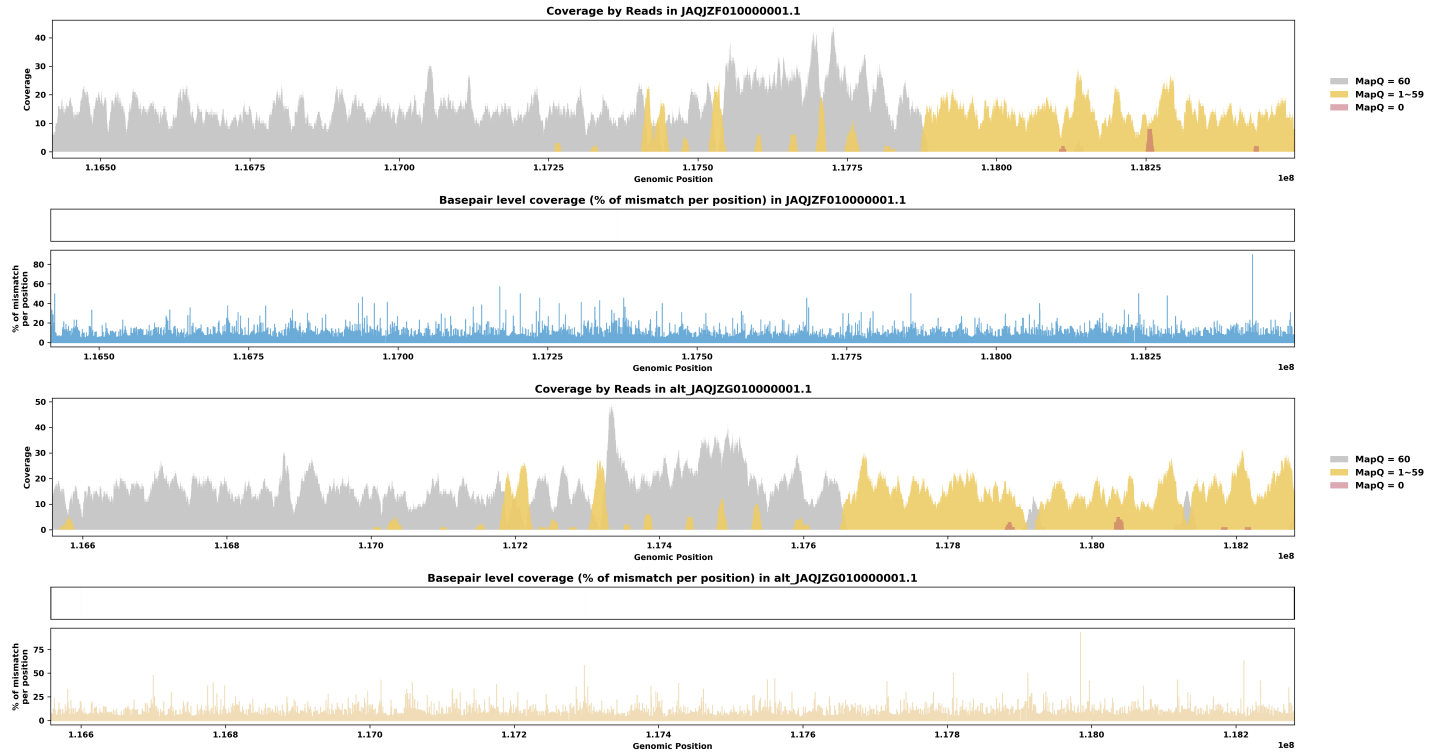
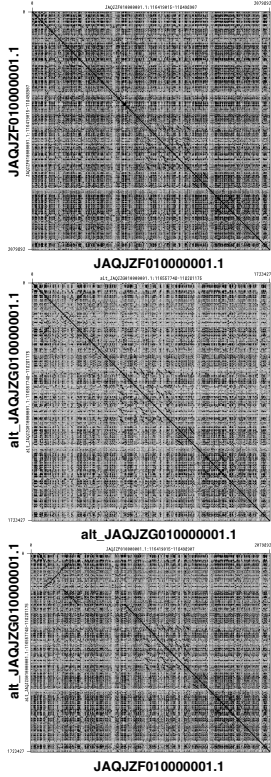
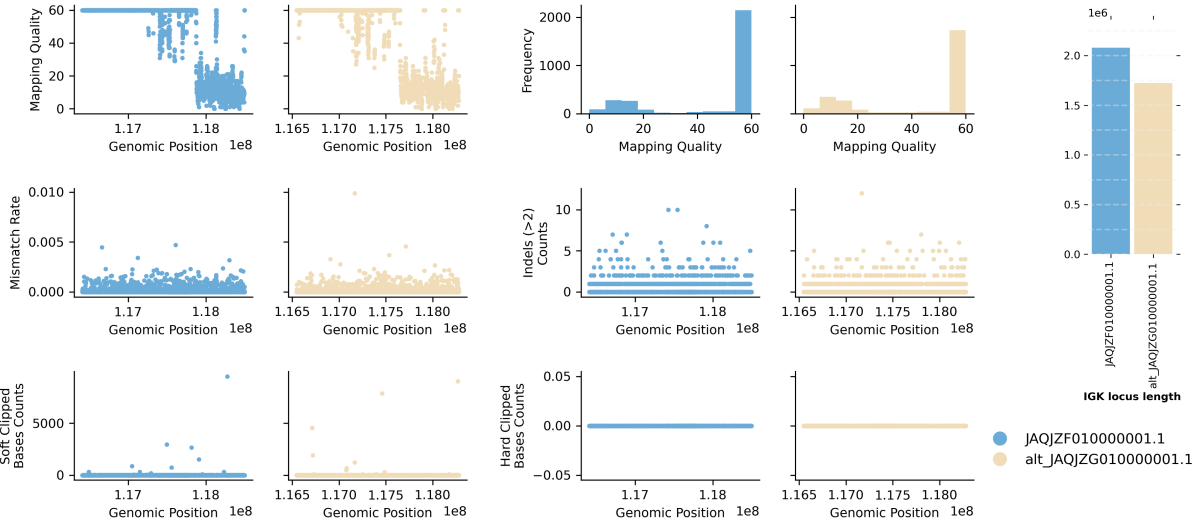
Scientific Name: *Mesoplodon densirostris*

Assembly Type: Not Haplotype Resolved

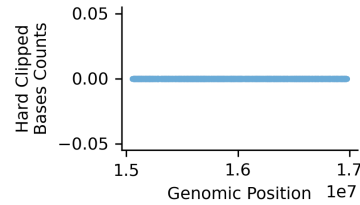
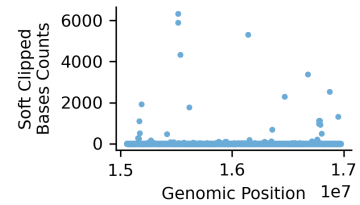
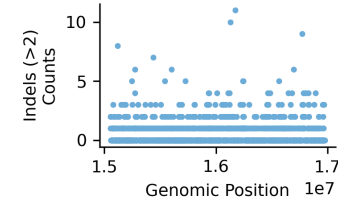
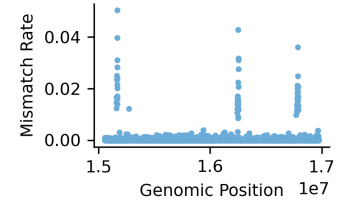
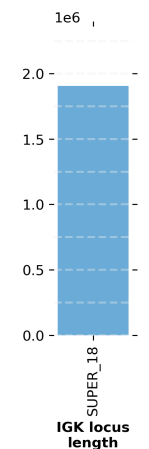
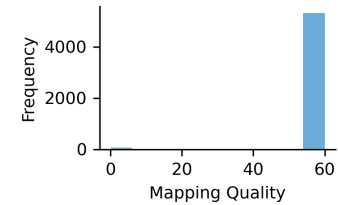
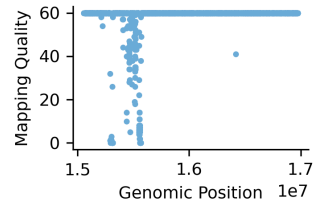
Data Source: VGP



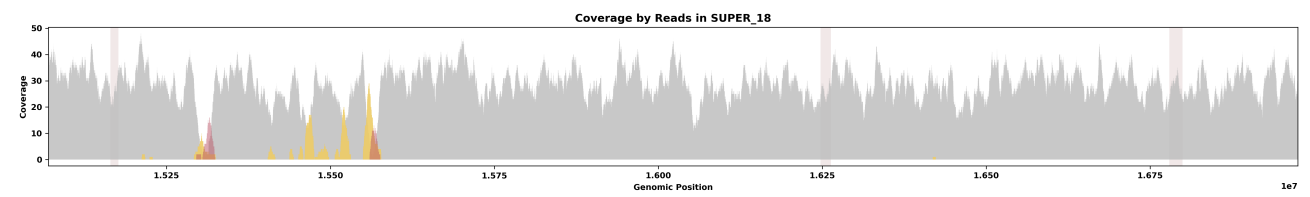
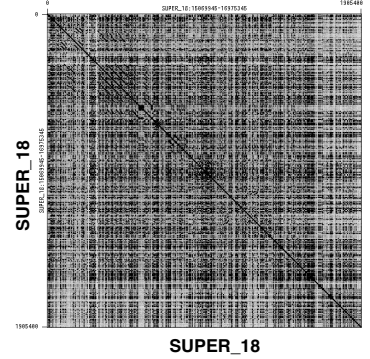
Species ID: mMicCa1
 Common Name: California Vole
 Scientific Name: *Microtus californicus*
 Assembly Type: Haplotype Resolved
 Data Source: CCGP



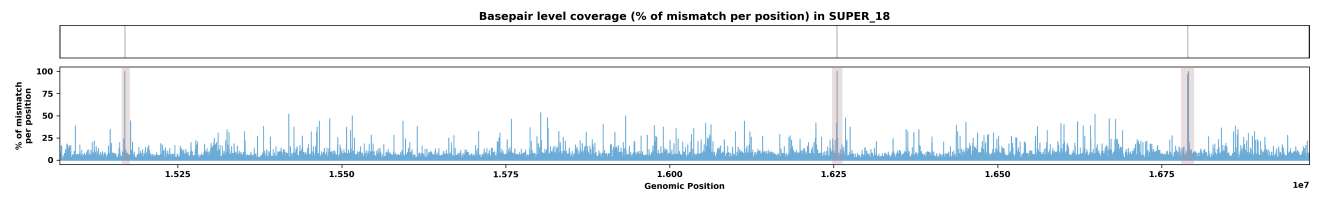
Species ID: mMicMin1
 Common Name: European harvest mouse
 Scientific Name: *Micromys minutus*
 Assembly Type: Not Haplotype Resolved
 Data Source: VGP



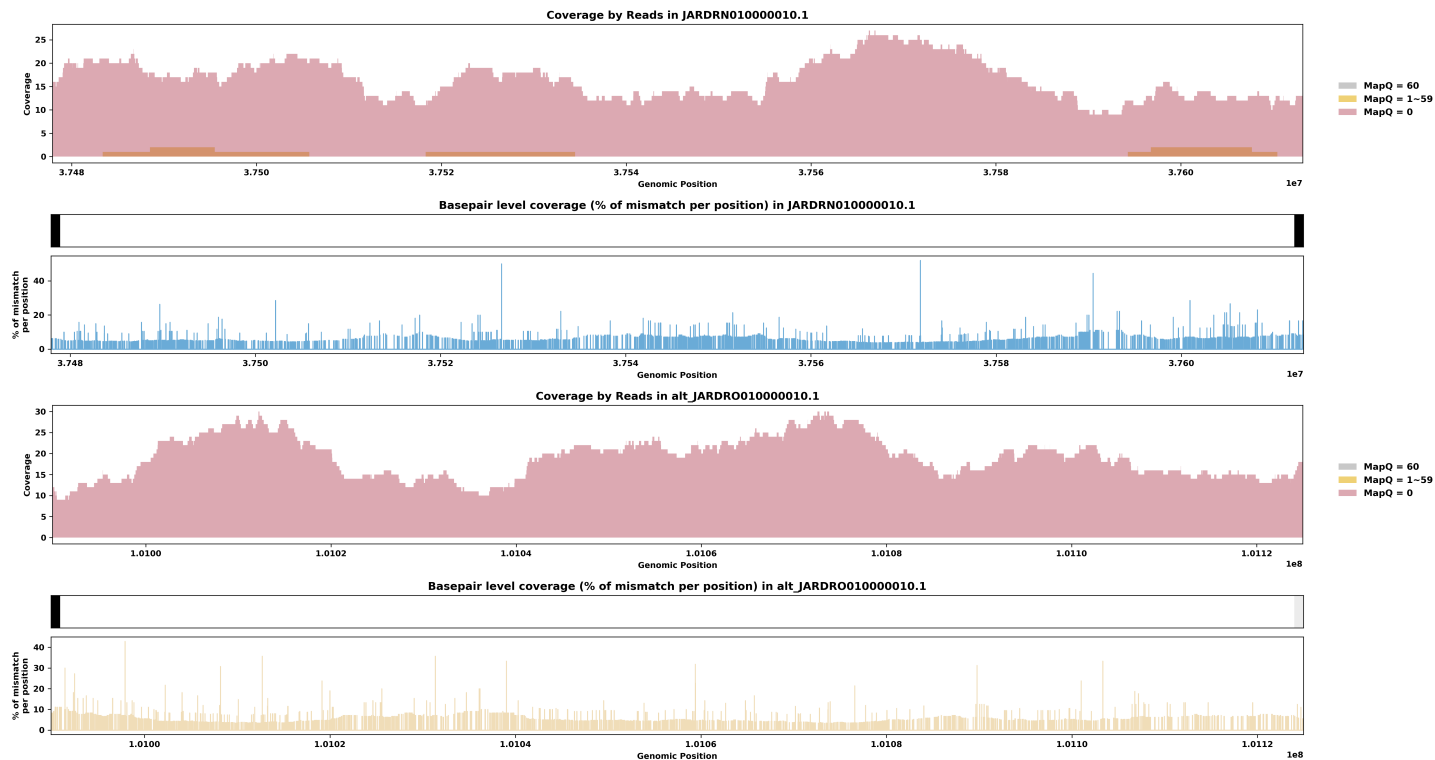
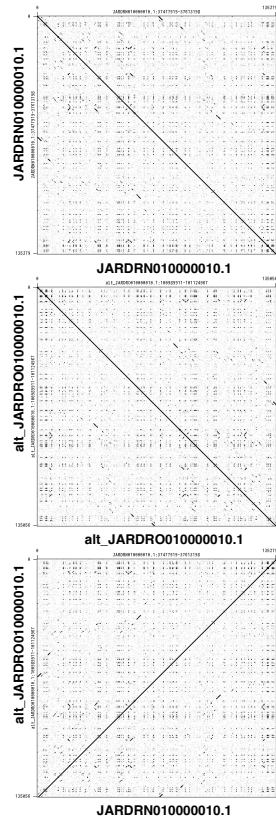
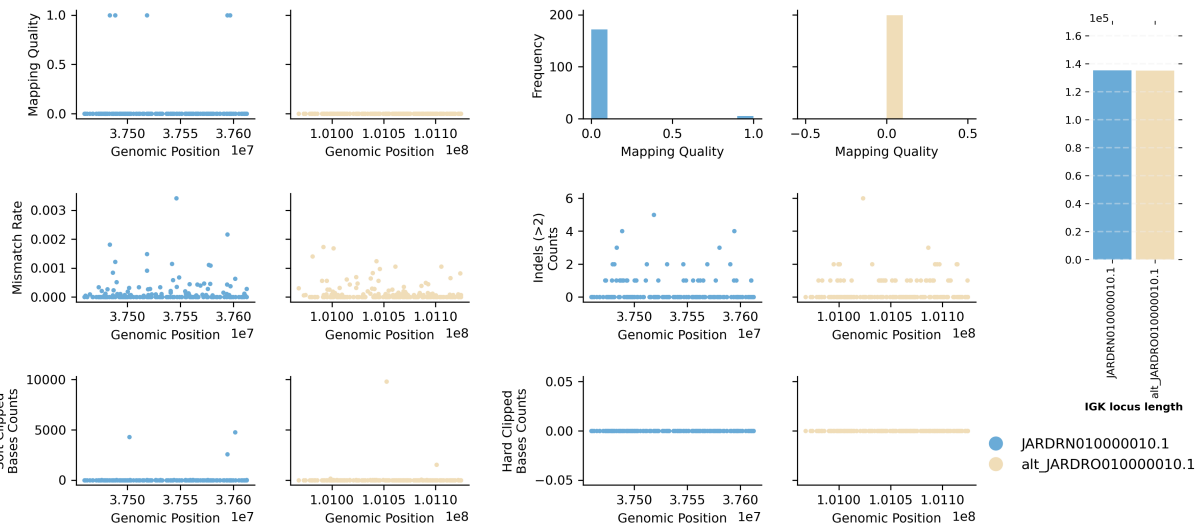
● SUPER_18



MapQ = 60
 MapQ = 1-59
 MapQ = 0



Species ID: mMirAng1
 Common Name: Northern Elephant Seal
 Scientific Name: *Mirounga angustirostris*
 Assembly Type: Haplotype Resolved
 Data Source: CCGP



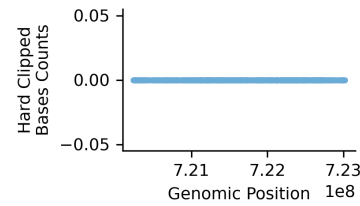
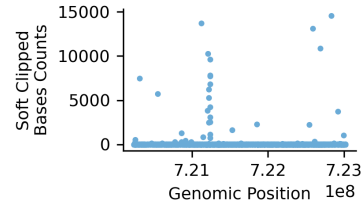
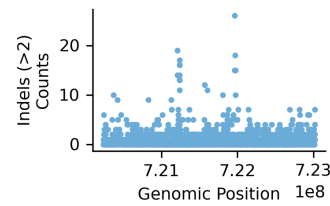
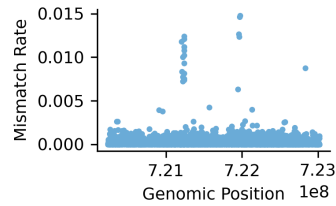
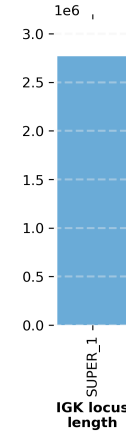
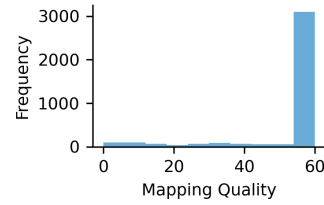
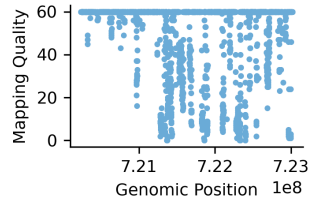
Species ID: mMonDom1

Common Name: gray short-tailed opossum

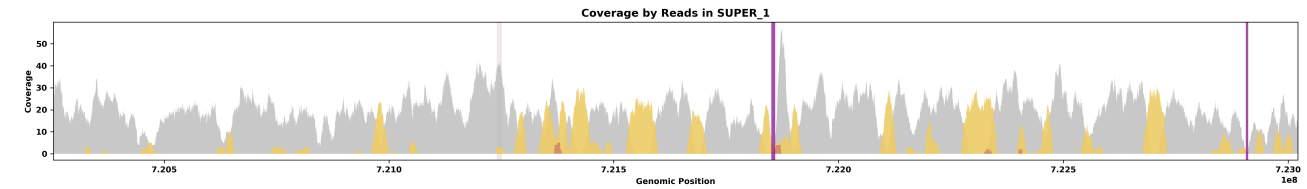
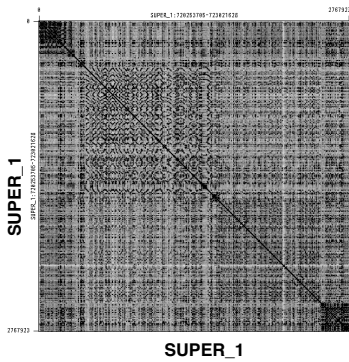
Scientific Name: *Monodelphis domestica*

Assembly Type: Not Haplotype Resolved

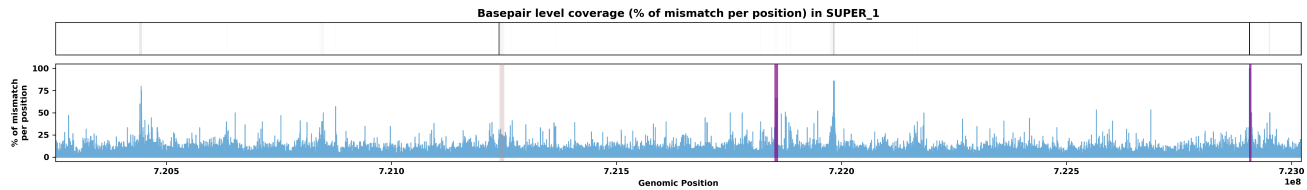
Data Source: VGP



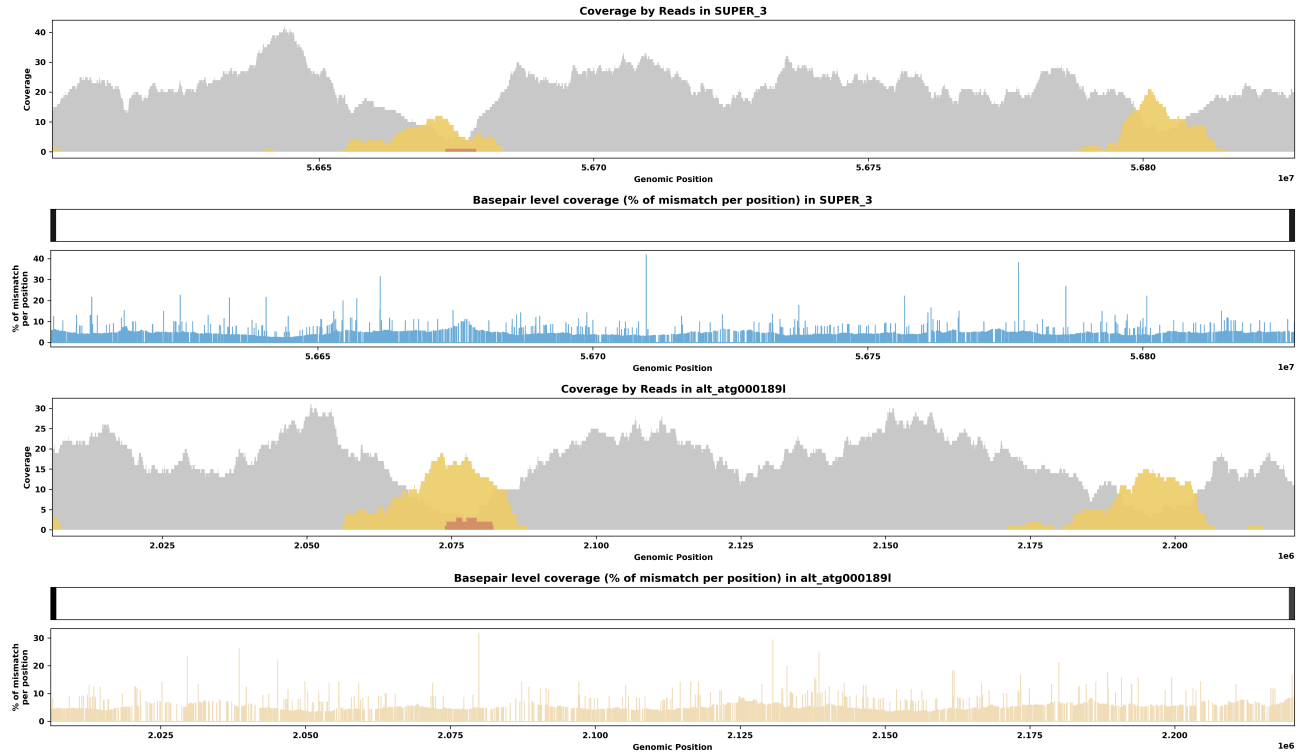
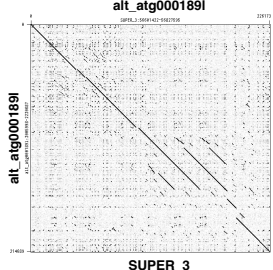
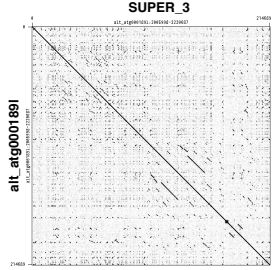
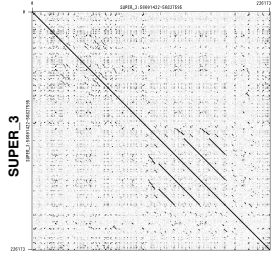
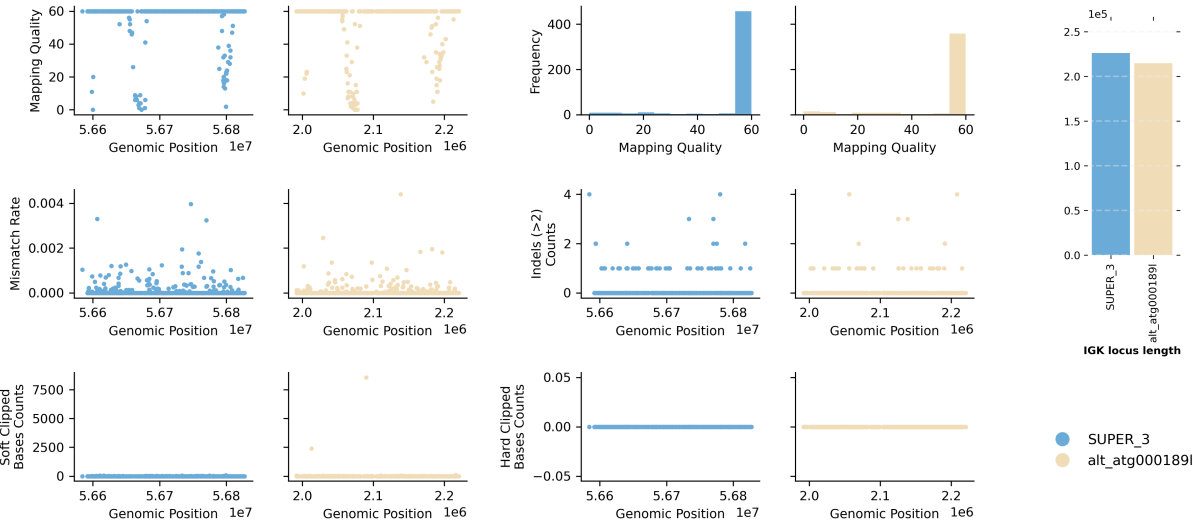
● SUPER_1



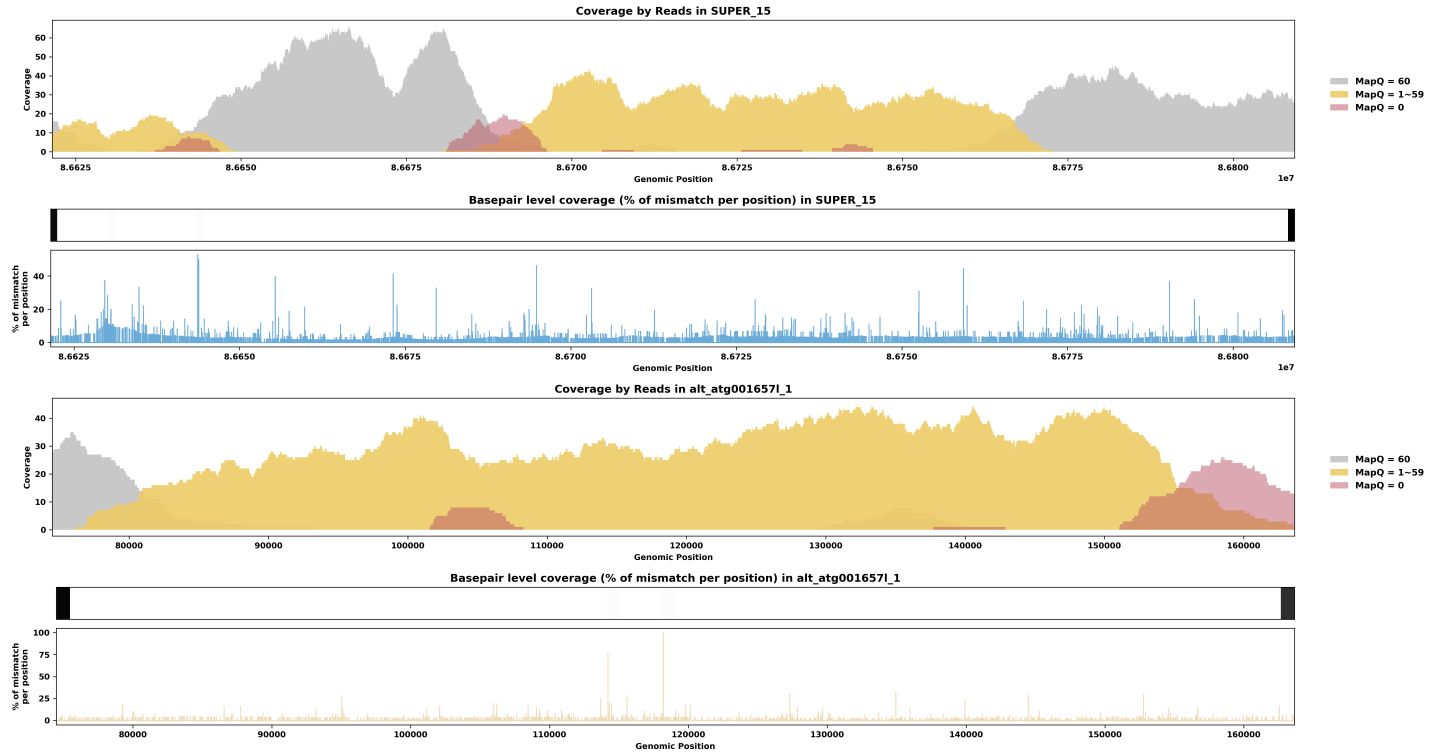
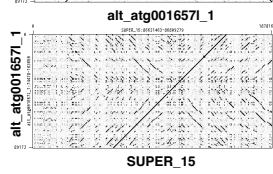
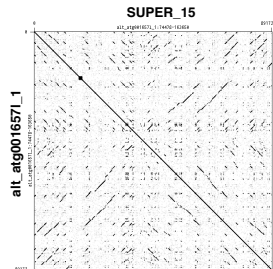
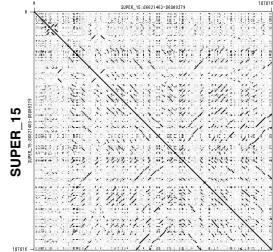
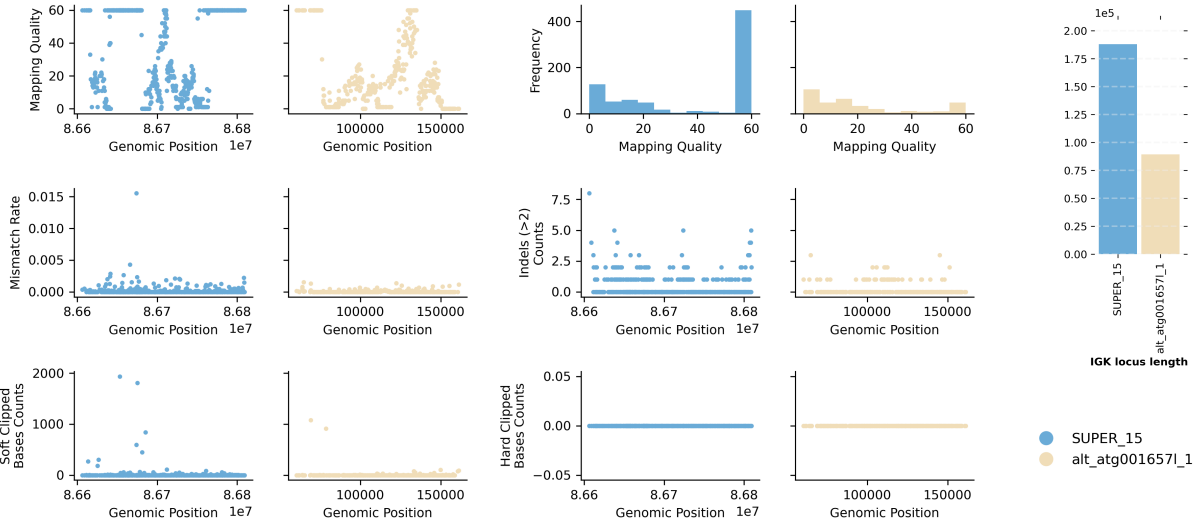
■ MapQ = 60
■ MapQ = 1-59
■ MapQ = 0



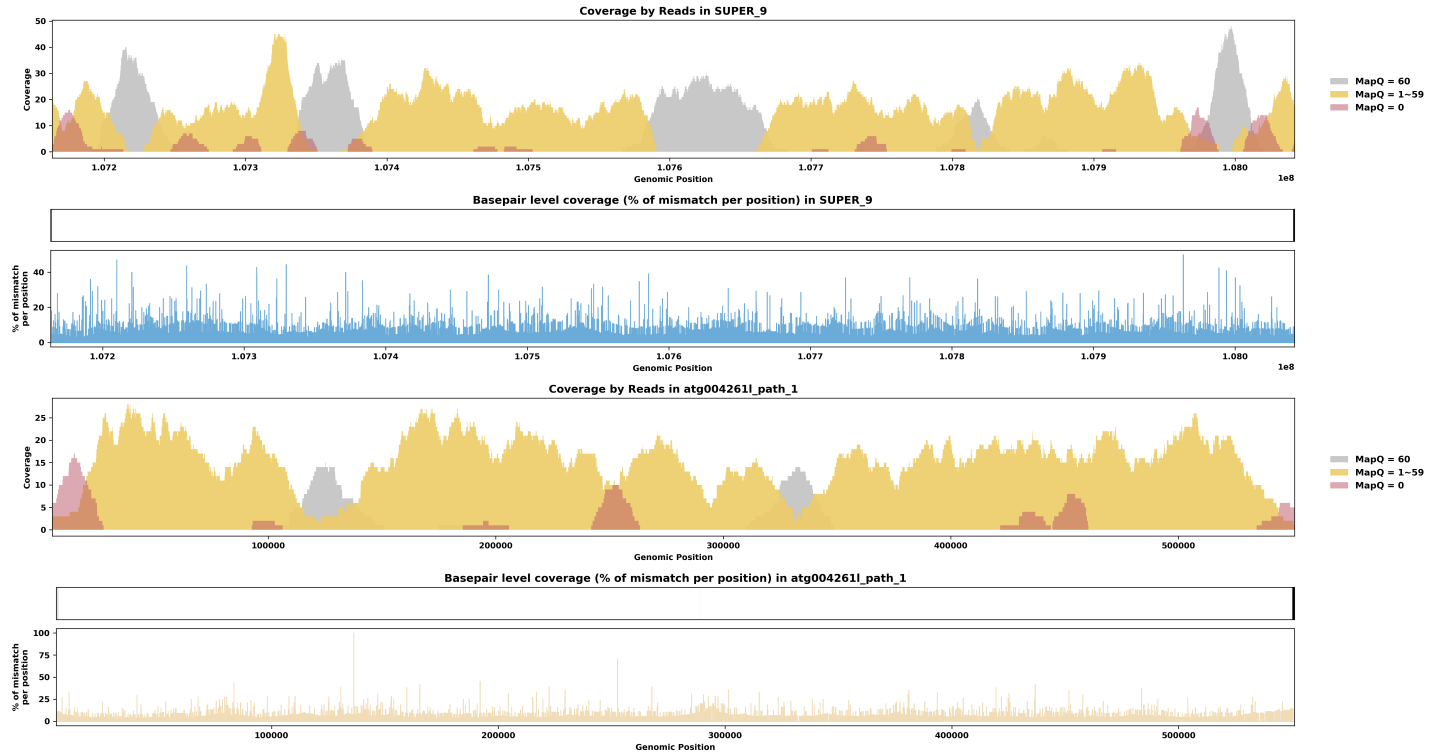
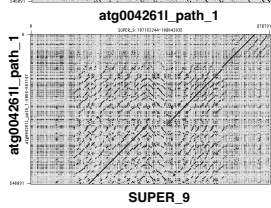
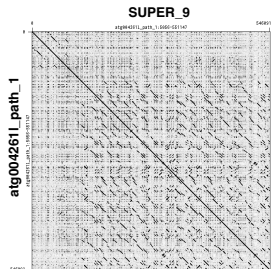
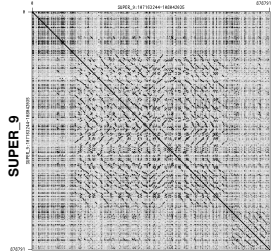
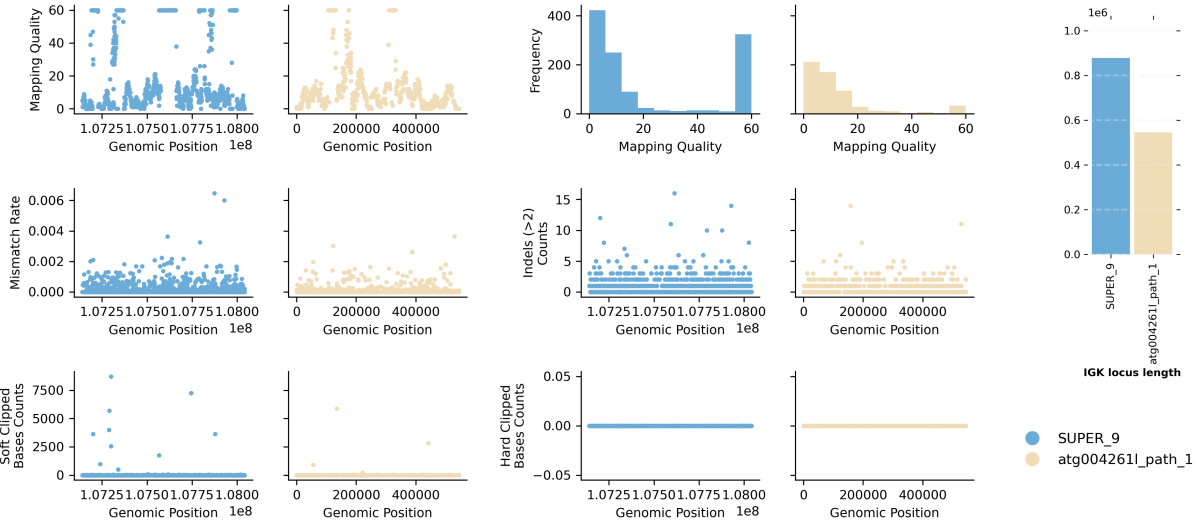
Species ID: mMunRee1
 Common Name: Reeves' muntjac
 Scientific Name: Muntiacus reevesi
 Assembly Type: Not Haplotype Resolved
 Data Source: VGP



Species ID: mMusAve1
 Common Name: hazel dormouse
 Scientific Name: Muscardinus avellanarius
 Assembly Type: Not Haplotype Resolved
 Data Source: VGP



Species ID: mMusLut2
 Common Name: European mink
 Scientific Name: Mustela lutreola
 Assembly Type: Not Haplotype Resolved
 Data Source: VGP



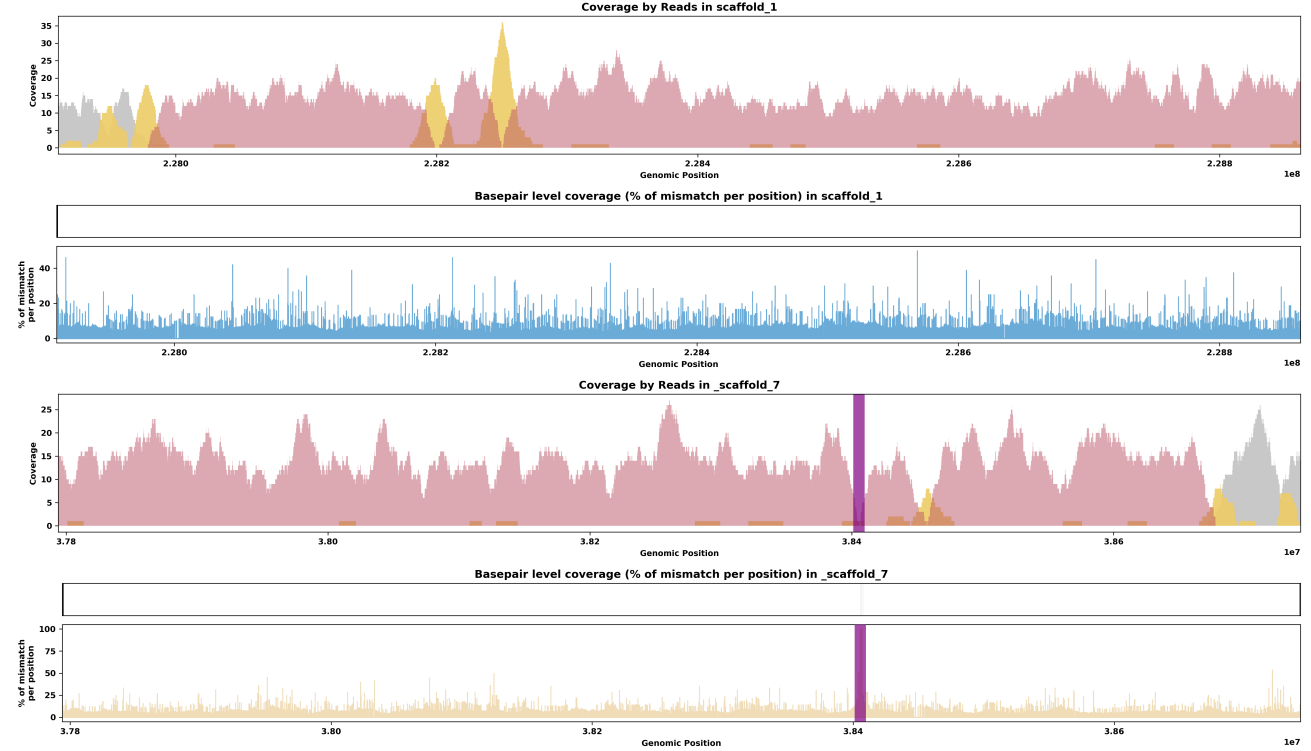
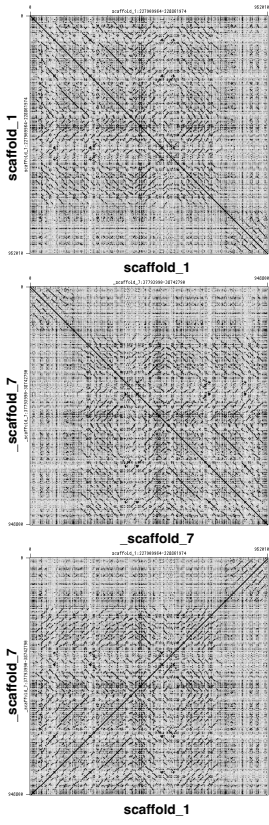
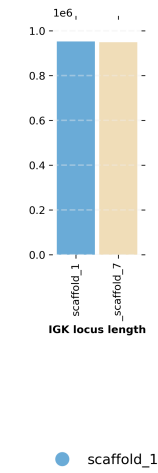
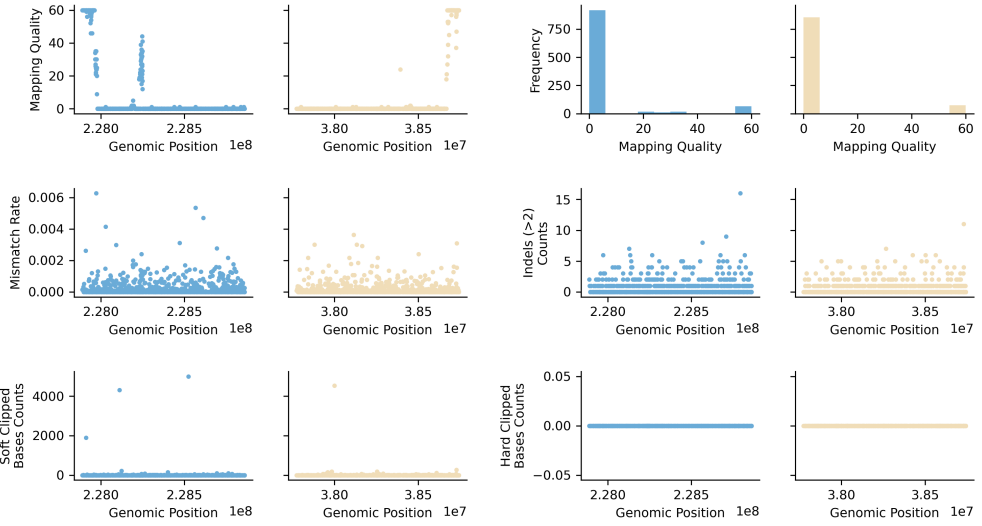
Species ID: mMusNiv1

Common Name: Least weasel

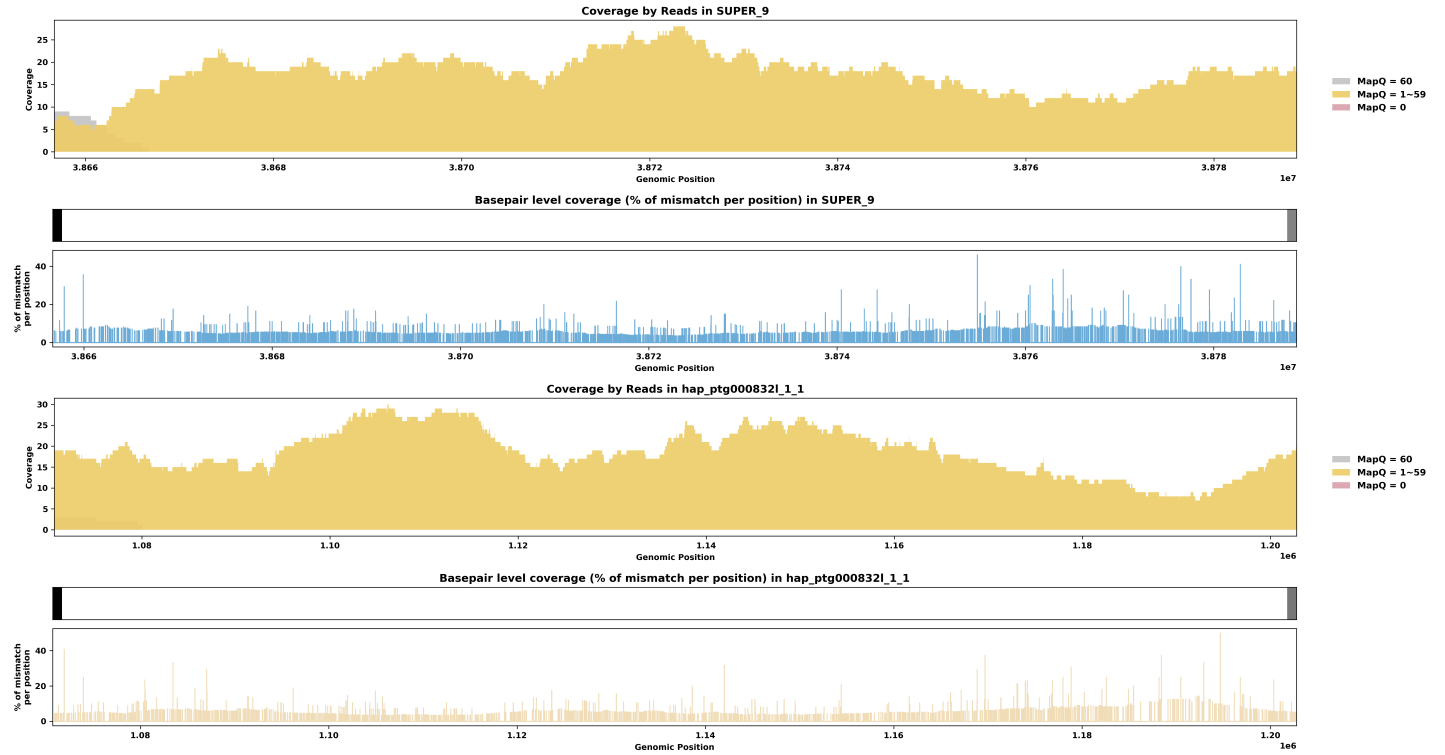
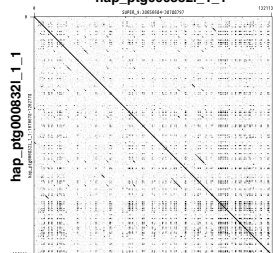
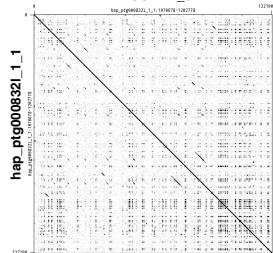
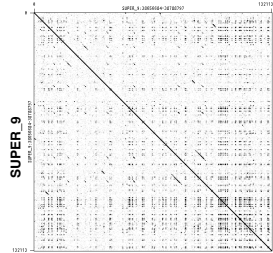
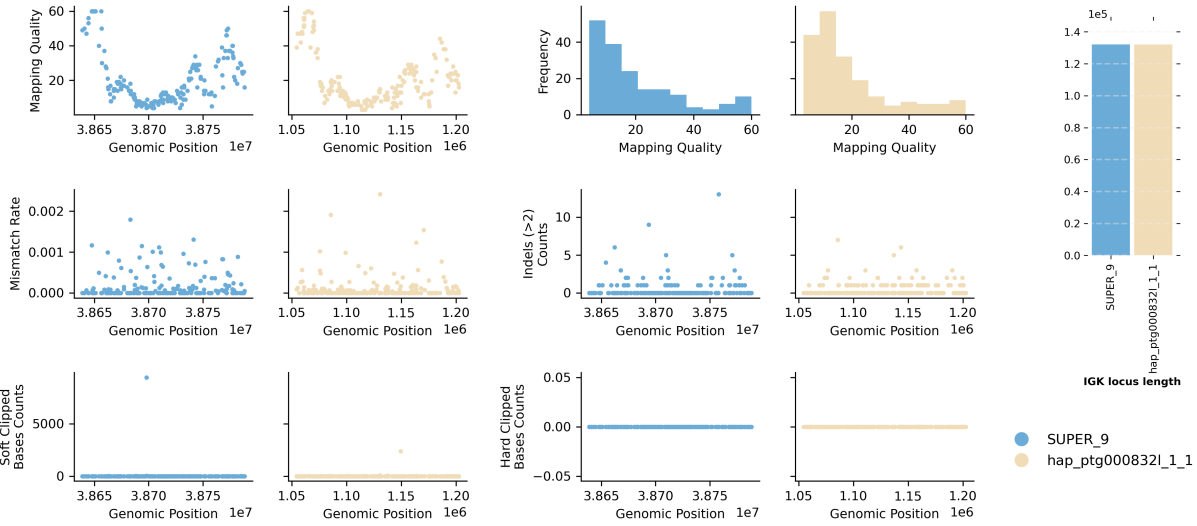
Scientific Name: *Mustela nivalis*

Assembly Type: Haplotype Resolved

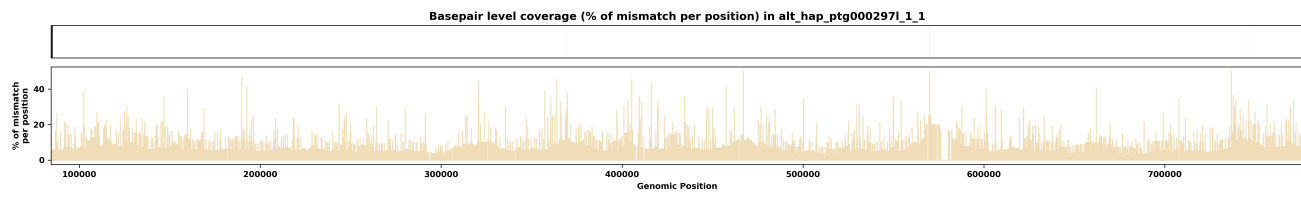
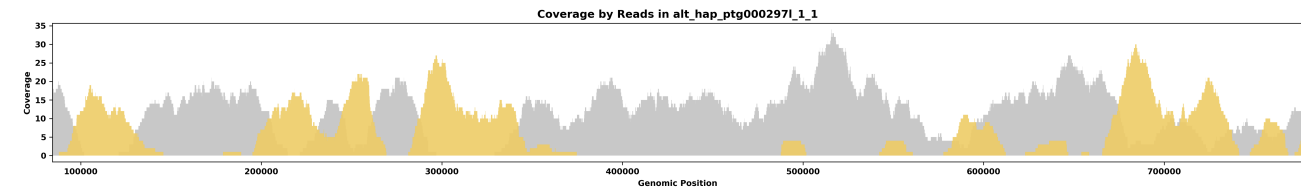
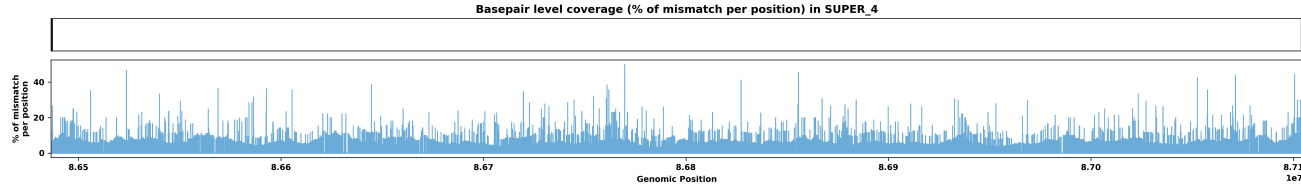
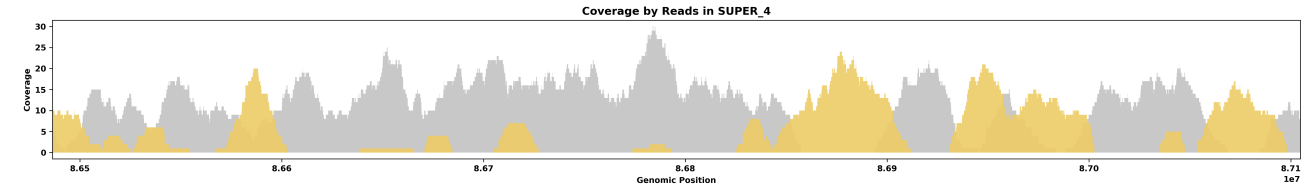
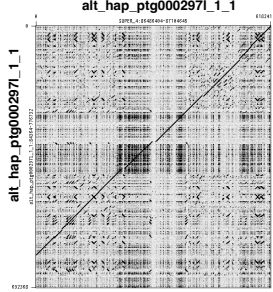
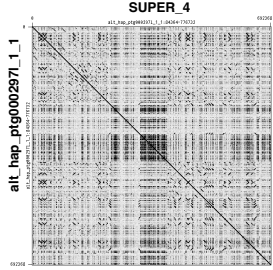
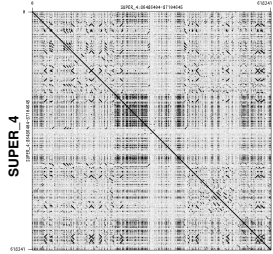
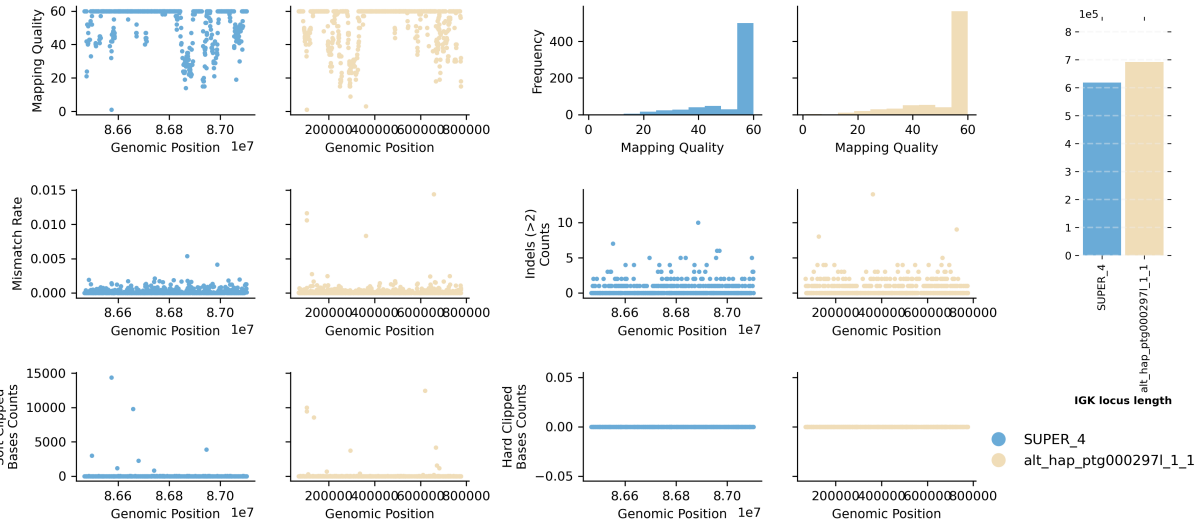
Data Source: VGP



Species ID: mNeoNeb1
 Common Name: Clouded Leopard
 Scientific Name: Neofelis_nebulosa
 Assembly Type: Not Haplotype Resolved
 Data Source: VGP



Species ID: mNycCou1
 Common Name: slow loris
 Scientific Name: Nycticebus coucang
 Assembly Type: Not Haplotype Resolved
 Data Source: VGP



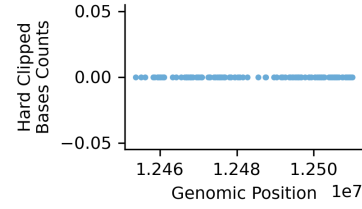
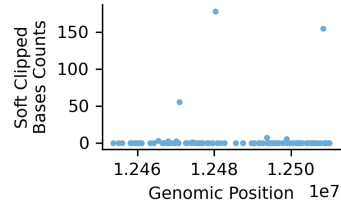
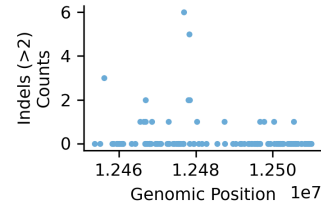
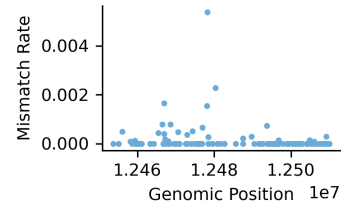
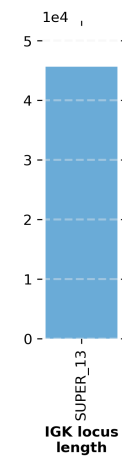
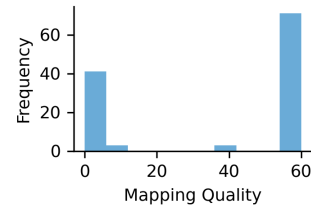
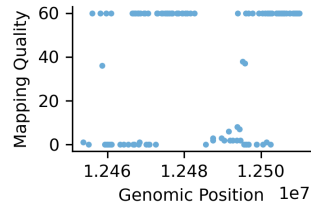
Species ID: mOrcOrc1

Common Name: killer whale

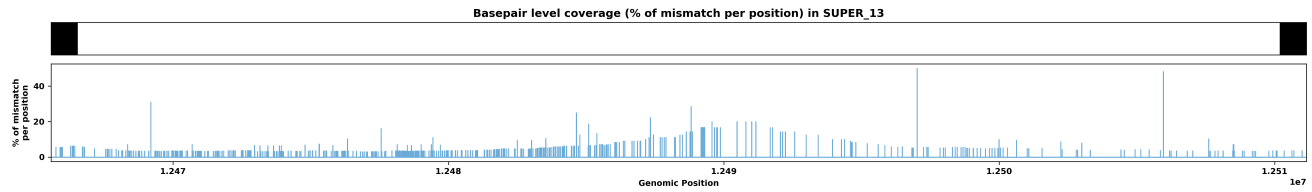
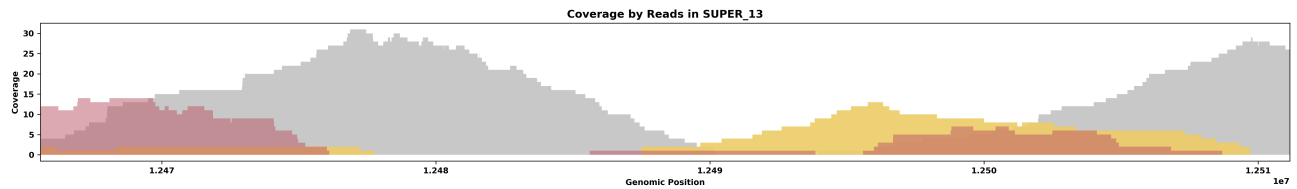
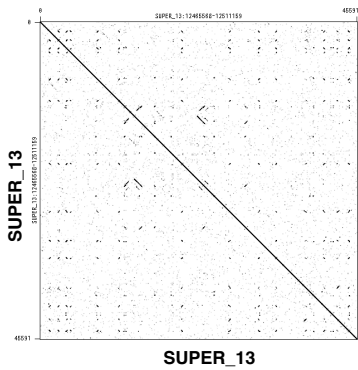
Scientific Name: Orcinus orca

Assembly Type: Not Haplotype Resolved

Data Source: VGP



● SUPER_13



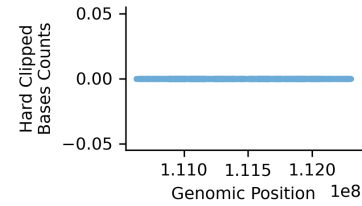
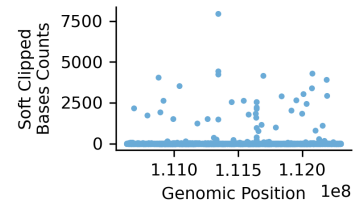
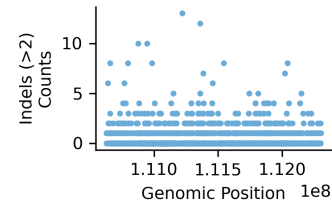
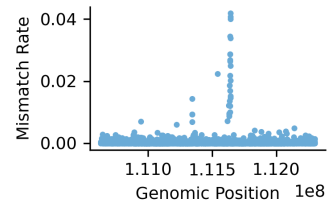
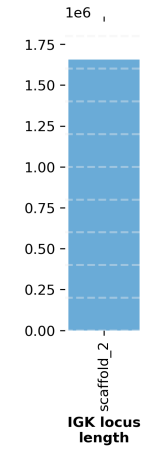
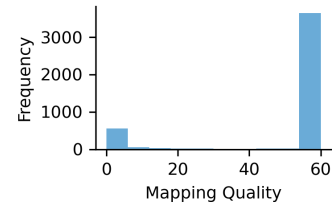
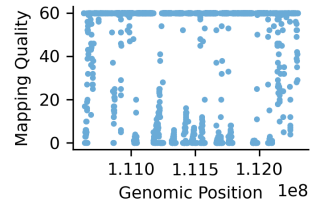
Species ID: mOryCun1

Common Name: rabbit

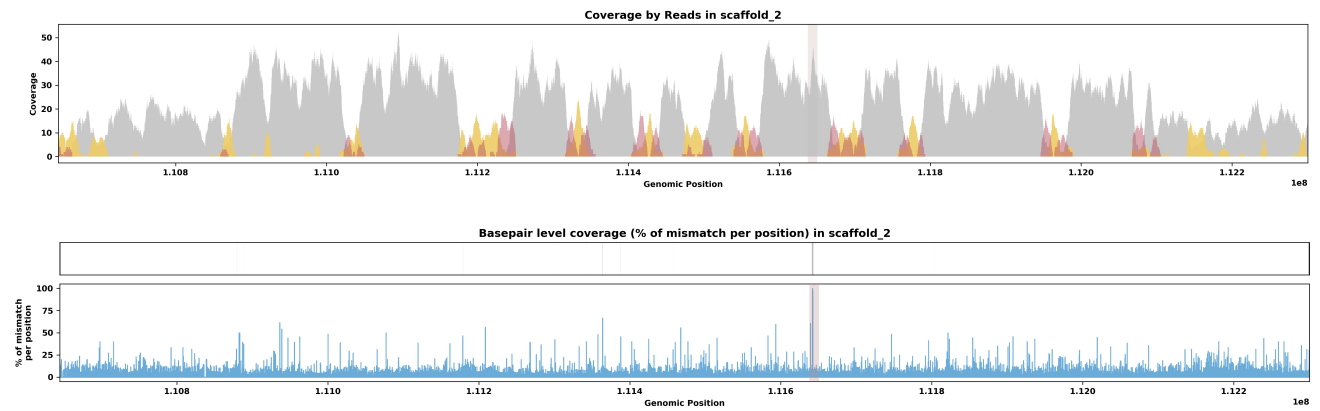
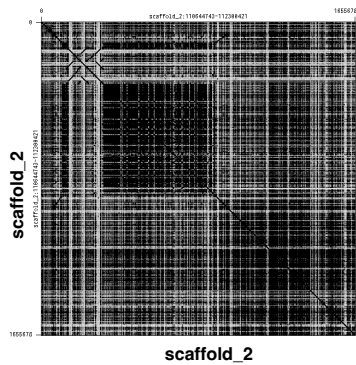
Scientific Name: *Oryctolagus cuniculus*

Assembly Type: Not Haplotype Resolved

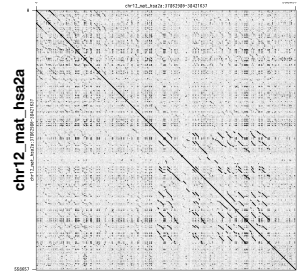
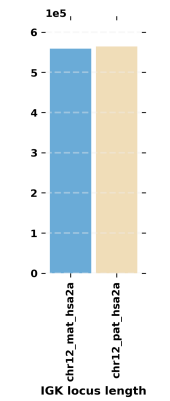
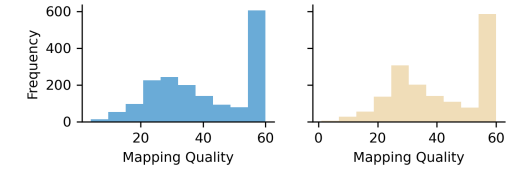
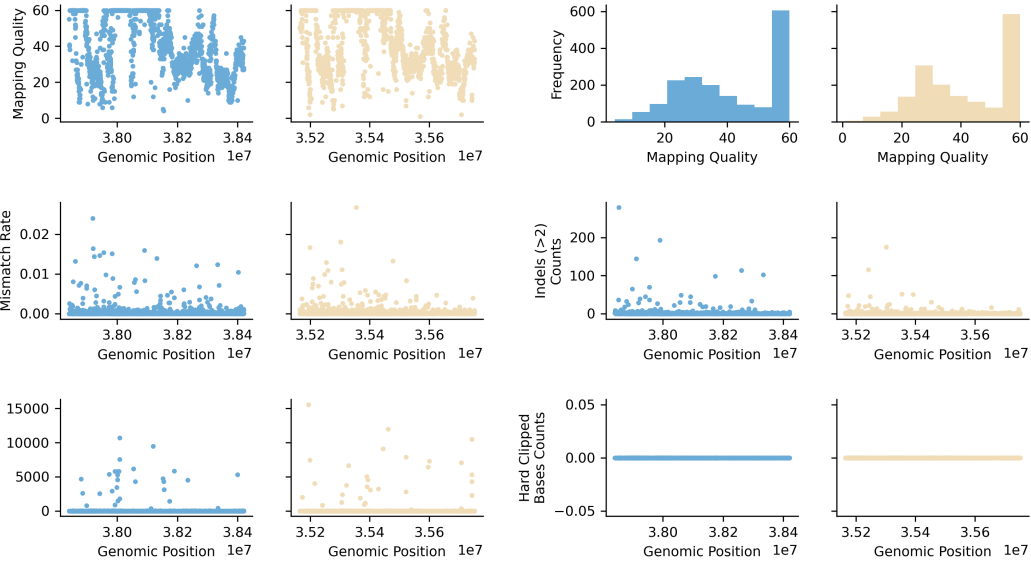
Data Source: VGP



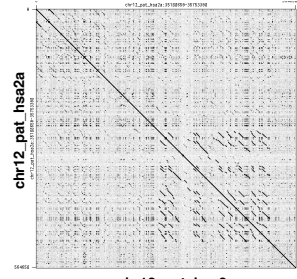
● scaffold_2



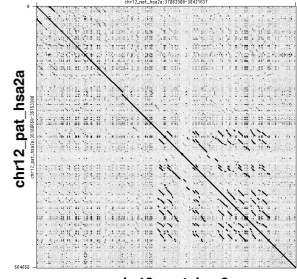
Species ID: mPanPan1
 Common Name: Bonobo
 Scientific Name: Pan paniscus
 Assembly Type: Haplotype Resolved
 Data Source: T2T Primate



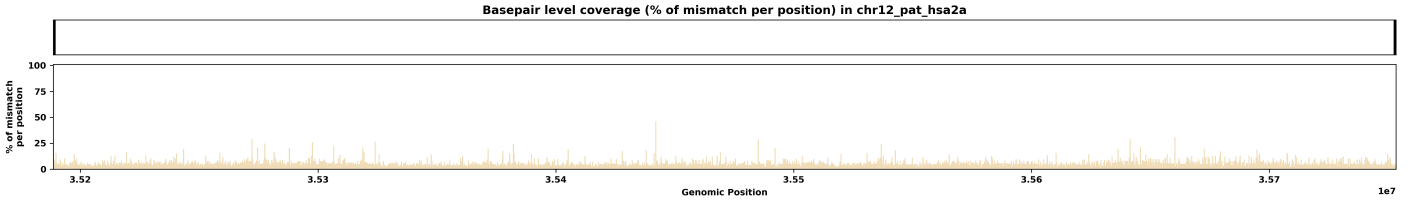
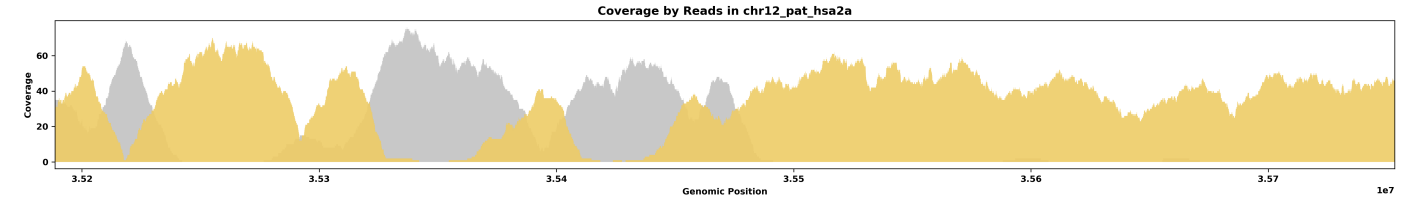
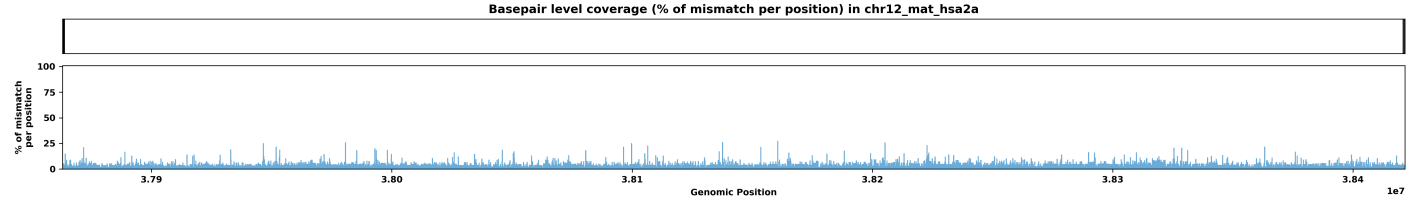
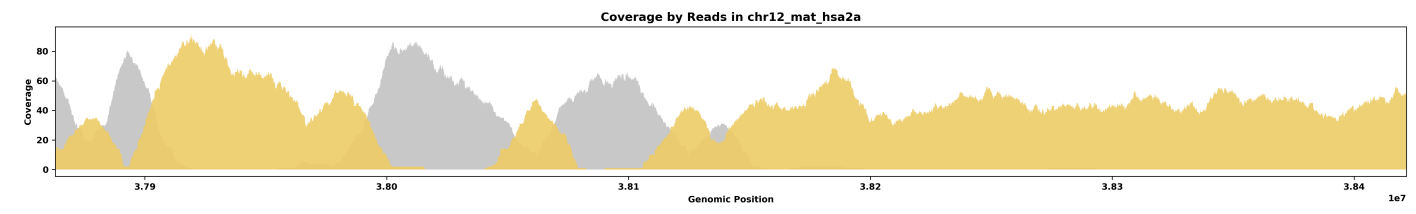
chr12_mat_hsa2a



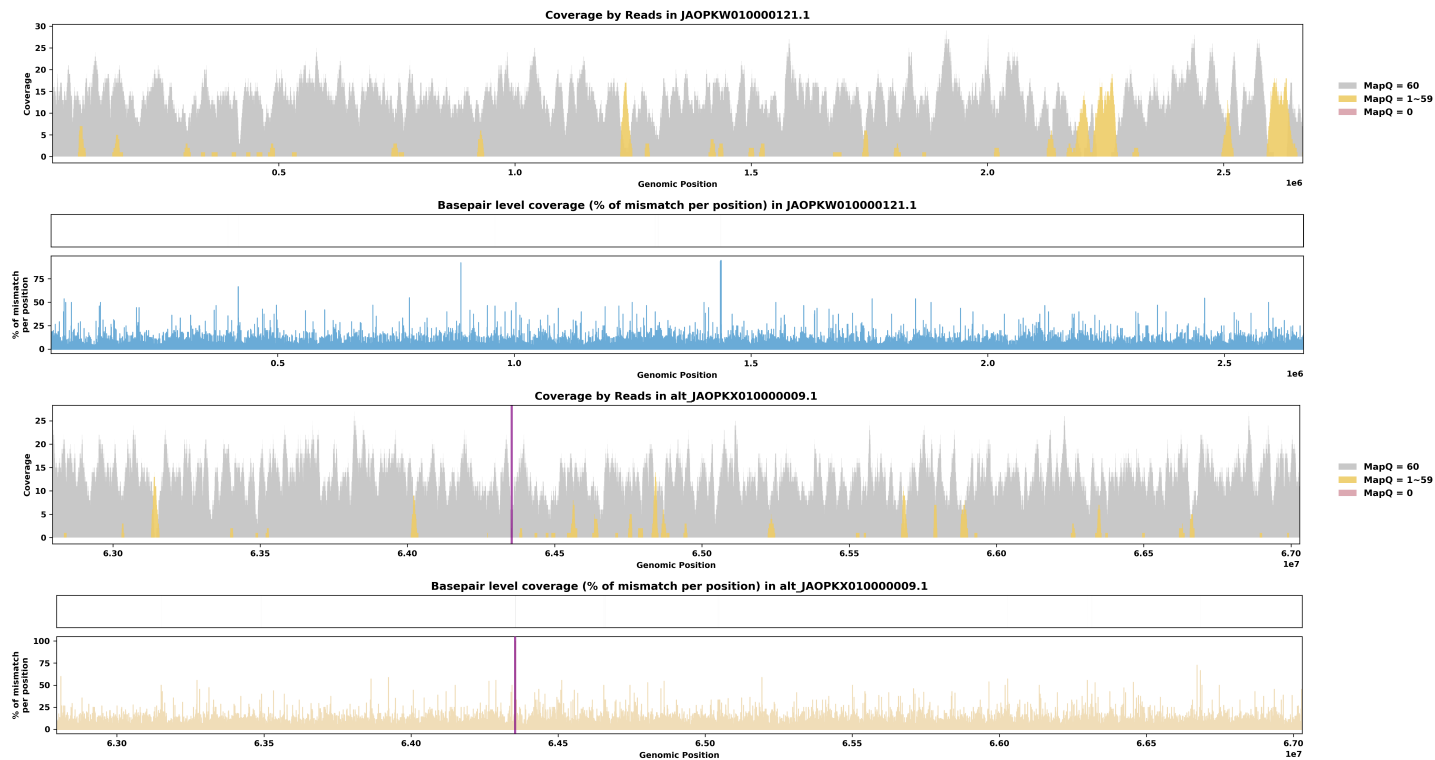
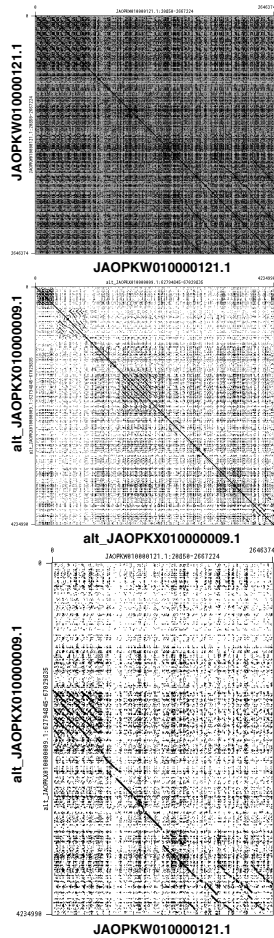
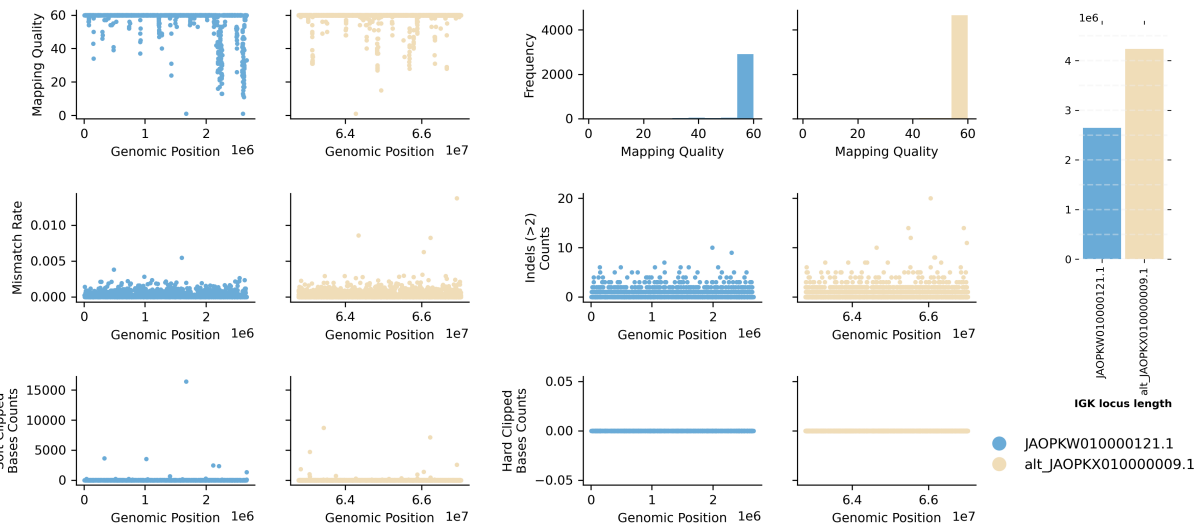
chr12_pat_hsa2a



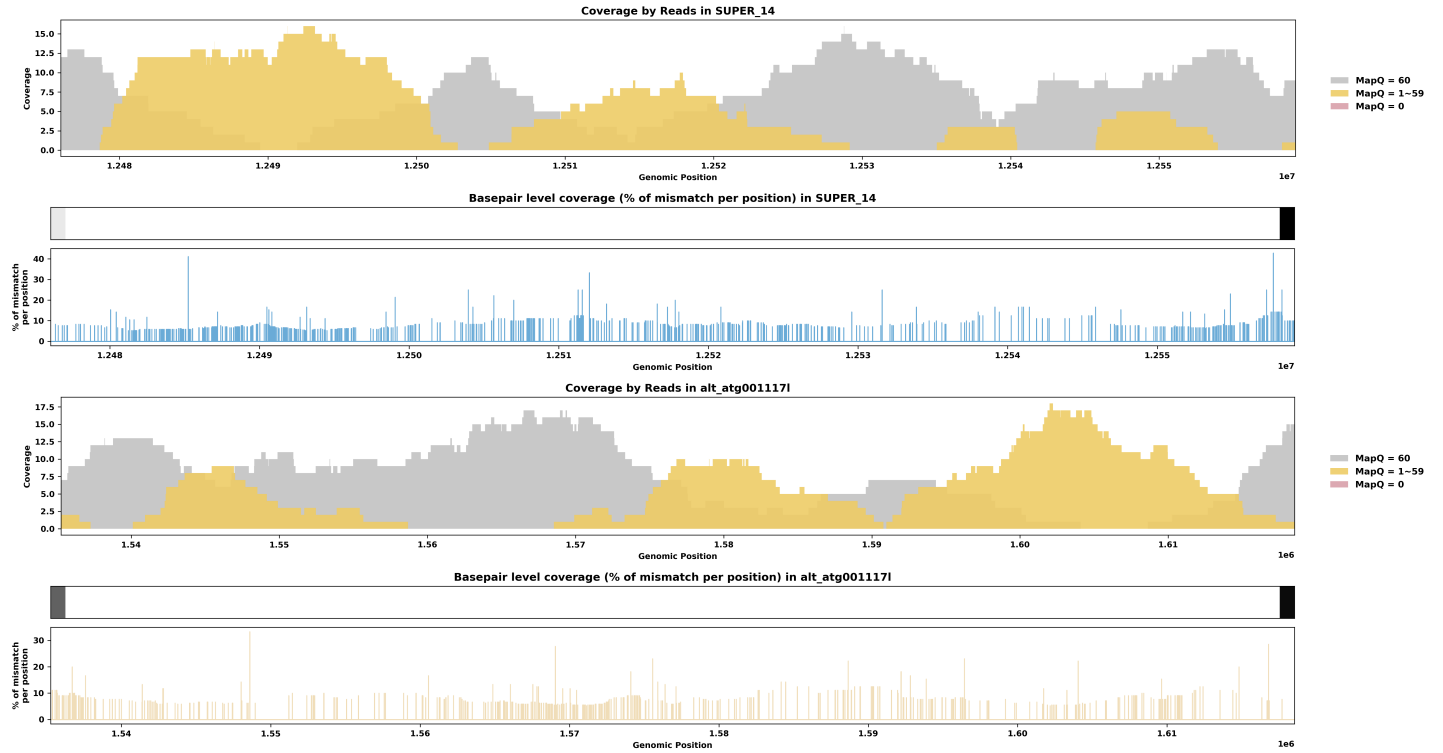
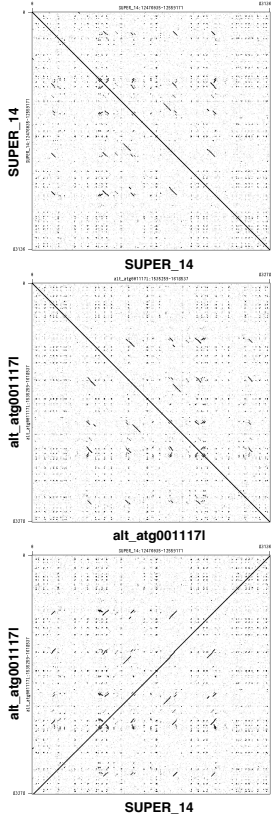
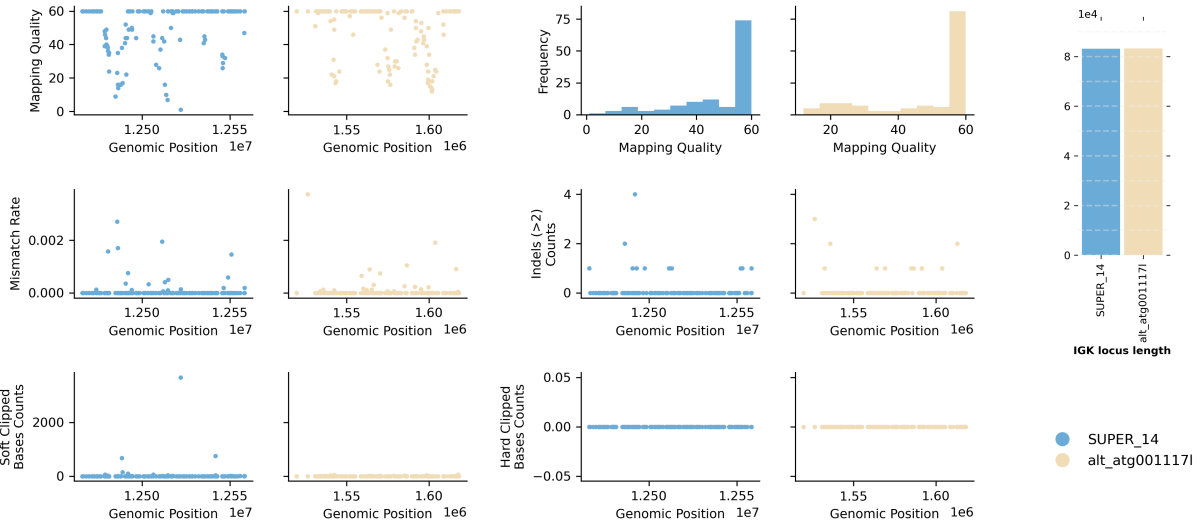
chr12_mat_hsa2a



Species ID: mPerMan1
 Common Name: deer mouse
 Scientific Name: *Peromyscus maniculatus*
 Assembly Type: Not Haplotype Resolved
 Data Source: CCGP



Species ID: mPhoPho1
 Common Name: harbor porpoise
 Scientific Name: Phocoena phocoena
 Assembly Type: Not Haplotype Resolved
 Data Source: VGP



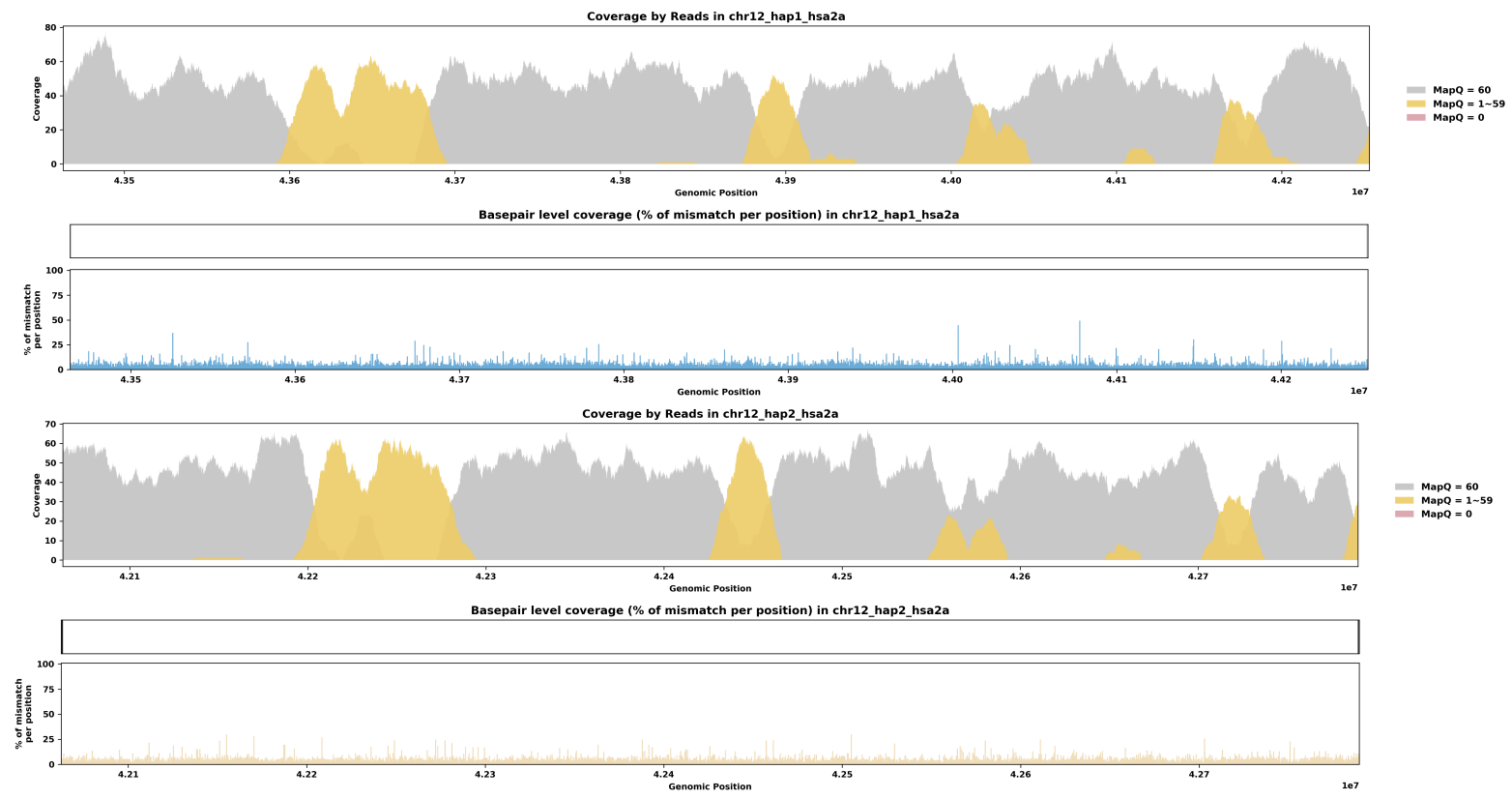
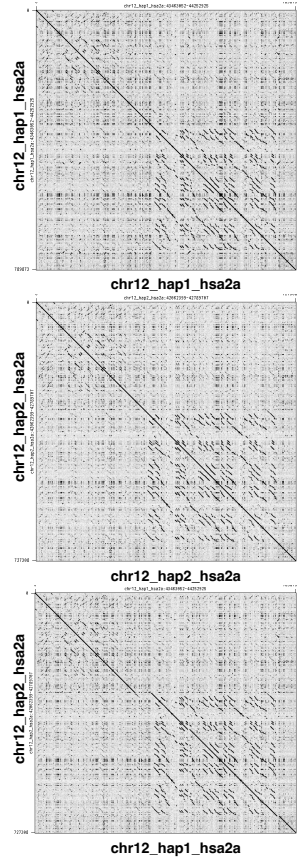
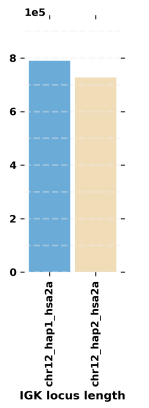
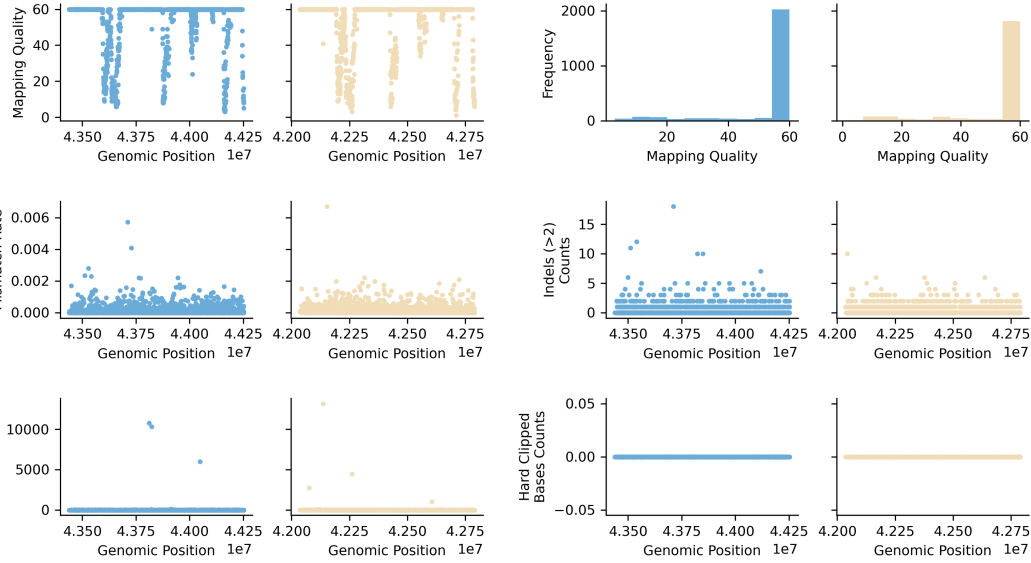
Species ID: mPonAbe1

Common Name: Sumatran orangutan

Scientific Name: Pongo_abelii

Assembly Type: Haplotype Resolved

Data Source: T2T Primate



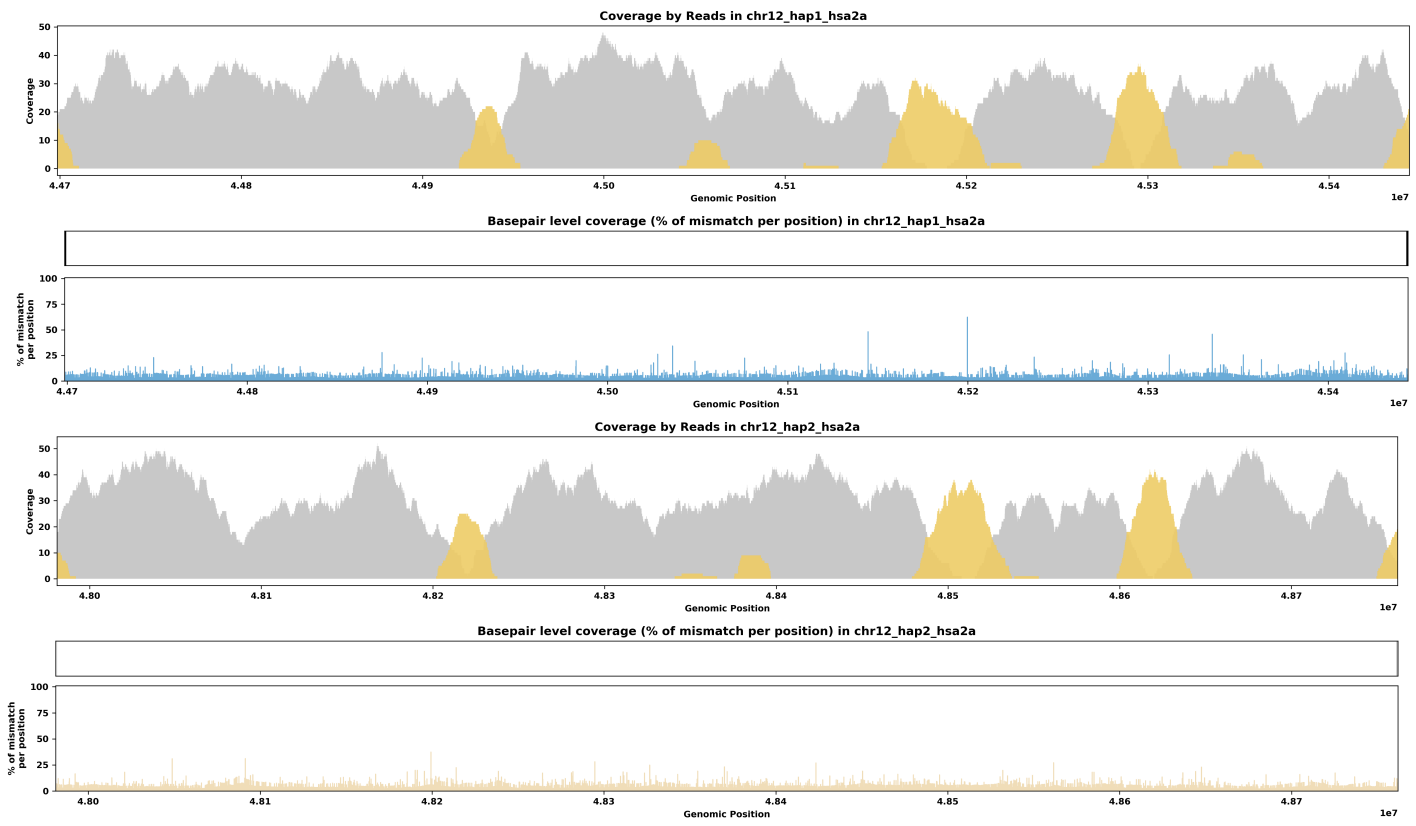
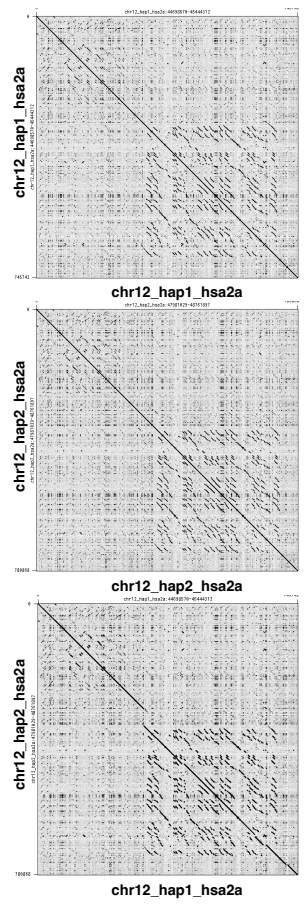
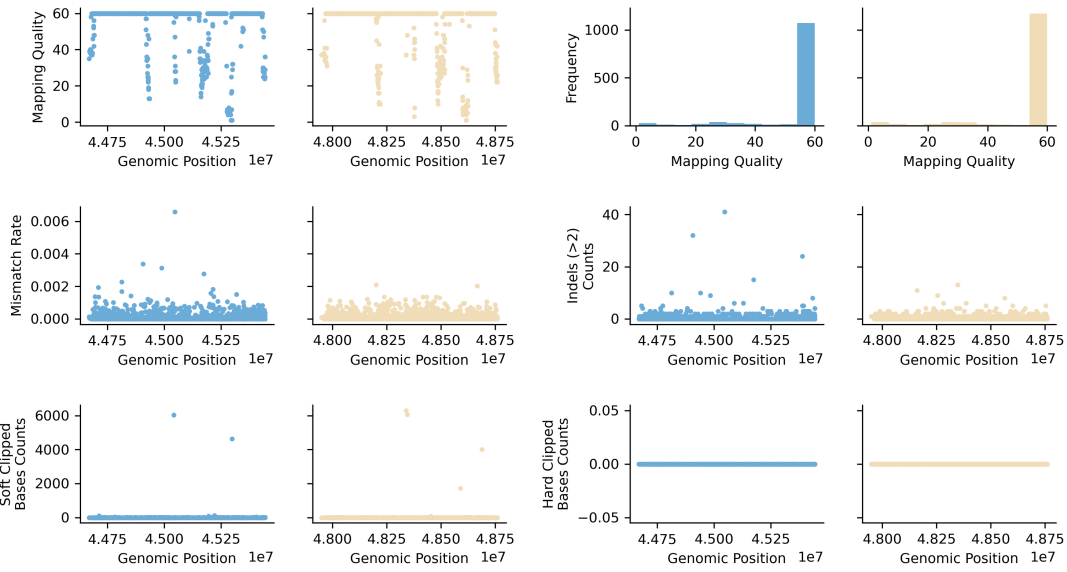
Species ID: mPonPyg2

Common Name: Bornean orangutan

Scientific Name: Pongo_pygmaeus

Assembly Type: Haplotype Resolved

Data Source: T2T Primate



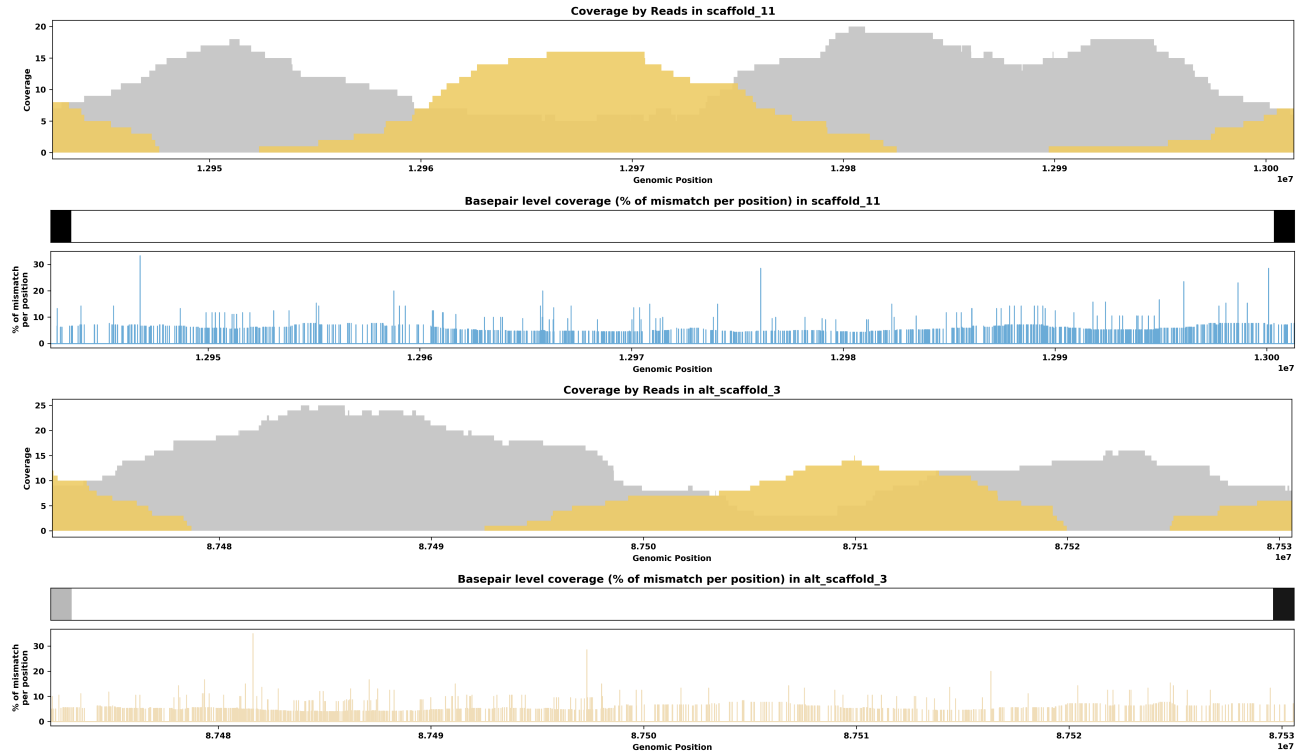
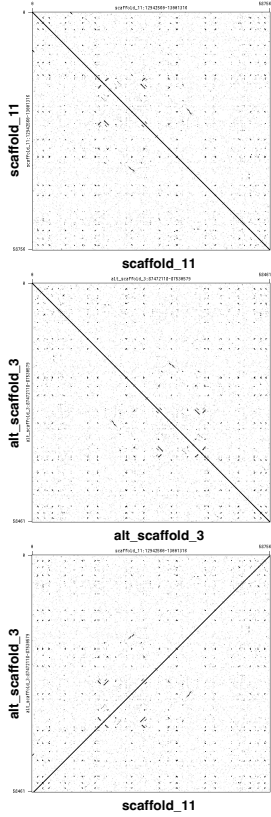
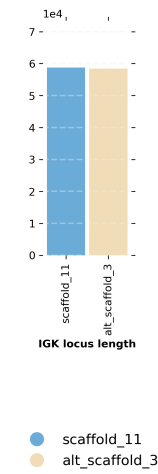
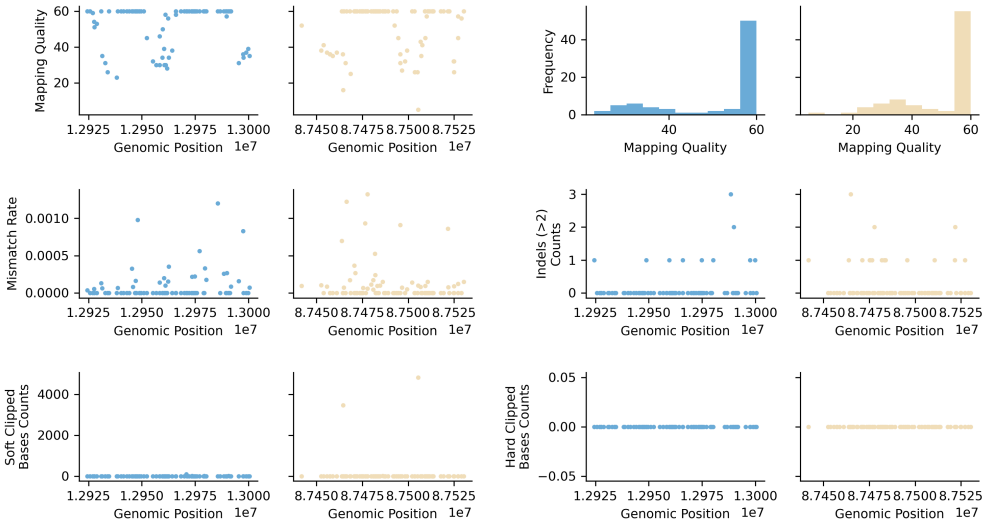
Species ID: mPseCra1

Common Name: false killer whale

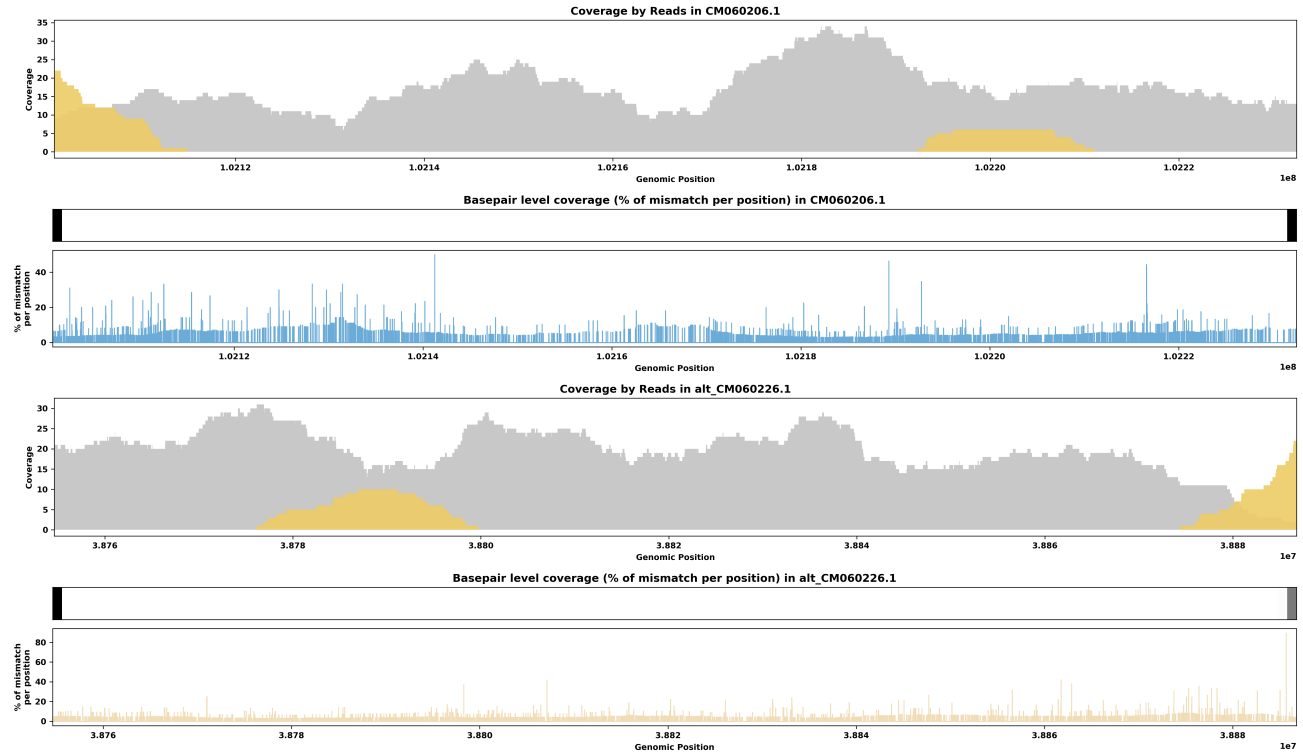
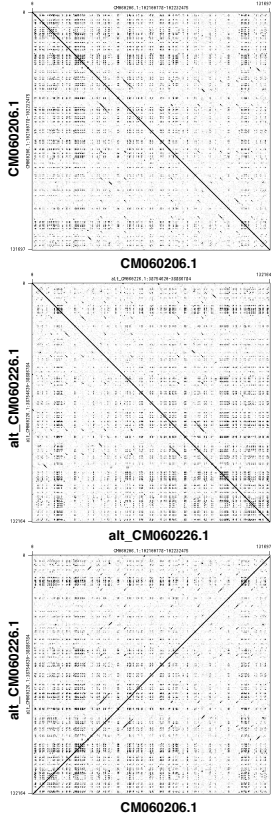
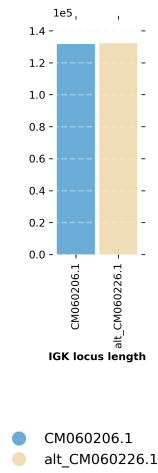
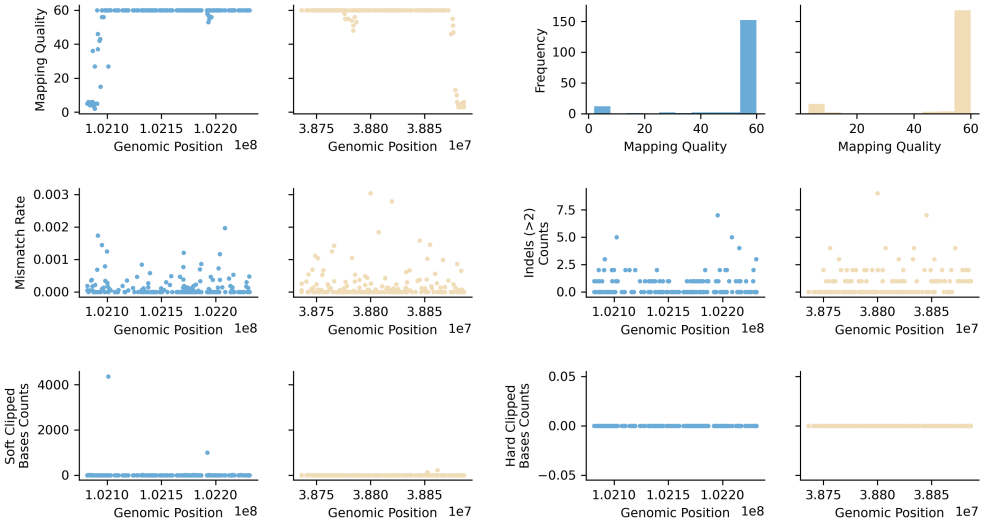
Scientific Name: Pseudorca crassidens

Assembly Type: Haplotype Resolved

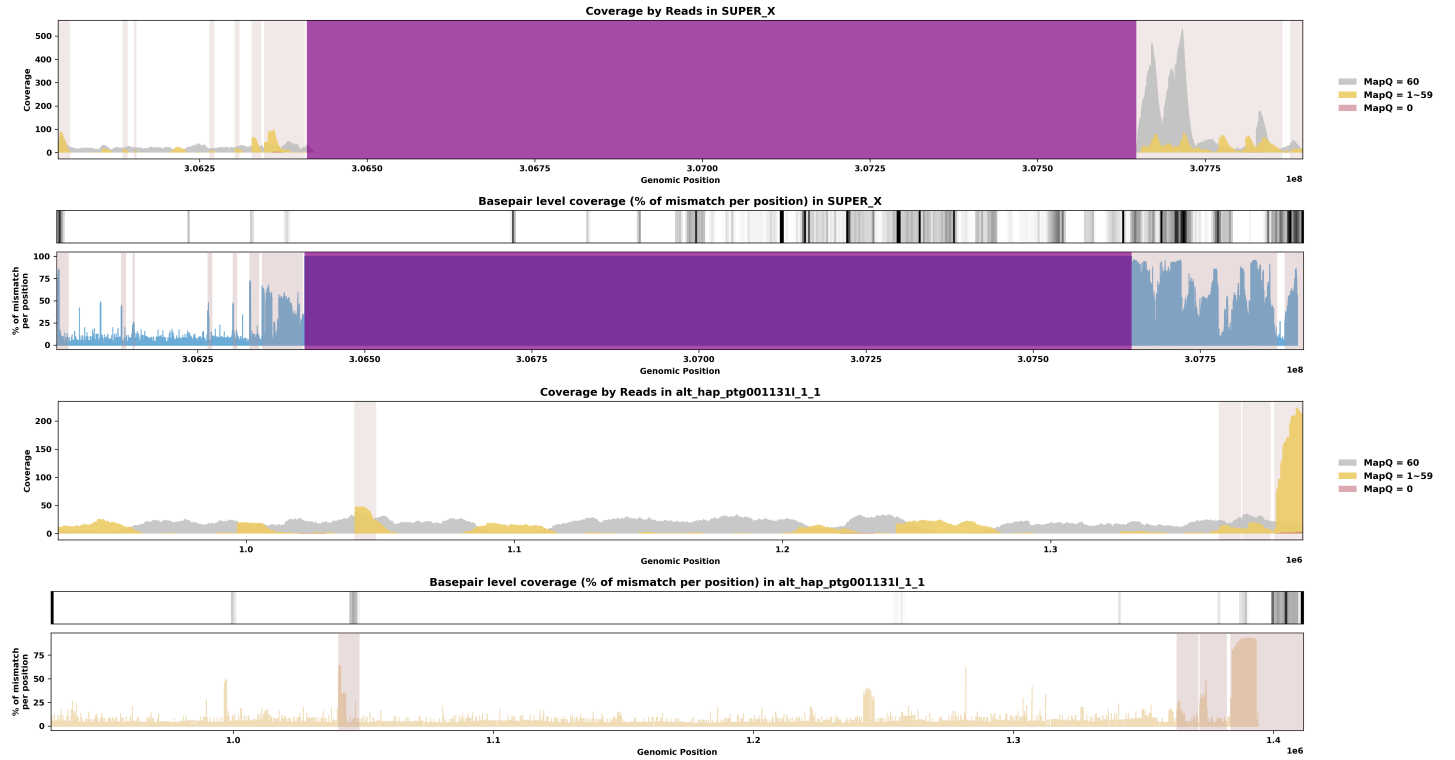
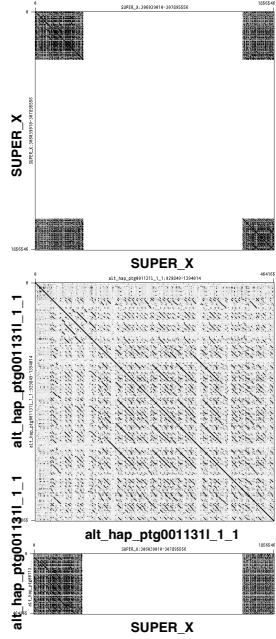
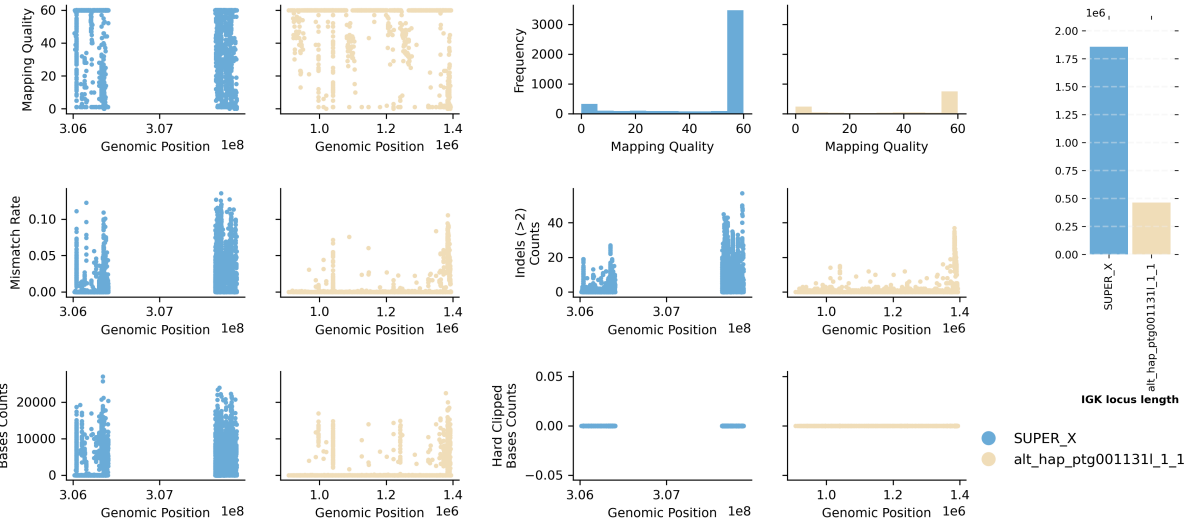
Data Source: VGP



Species ID: mPumCon1
 Common Name: Mountain Lion
 Scientific Name: Puma concolor
 Assembly Type: Haplotype Resolved
 Data Source: CCGP



Species ID: mSorAra2
 Common Name: Common shrew
 Scientific Name: Sorex araneus
 Assembly Type: Not Haplotype Resolved
 Data Source: VGP



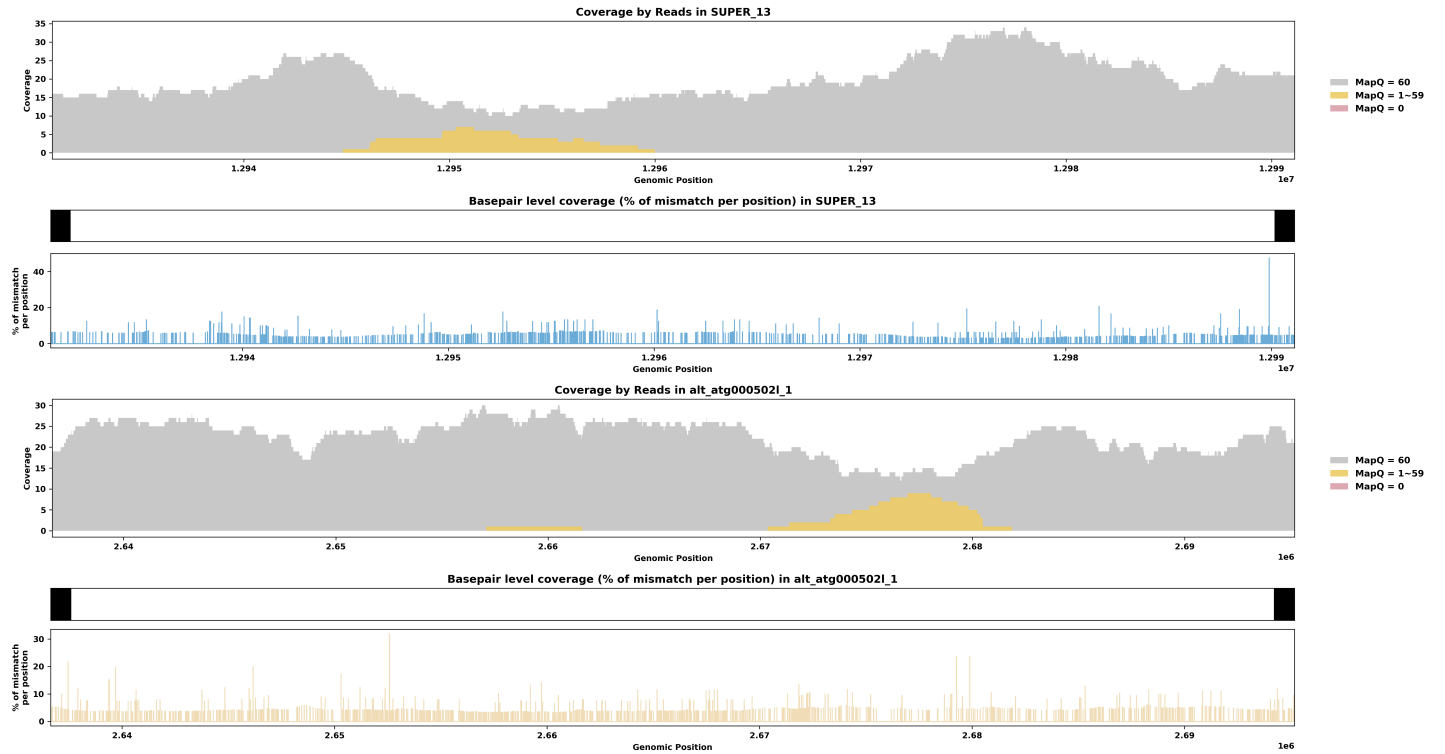
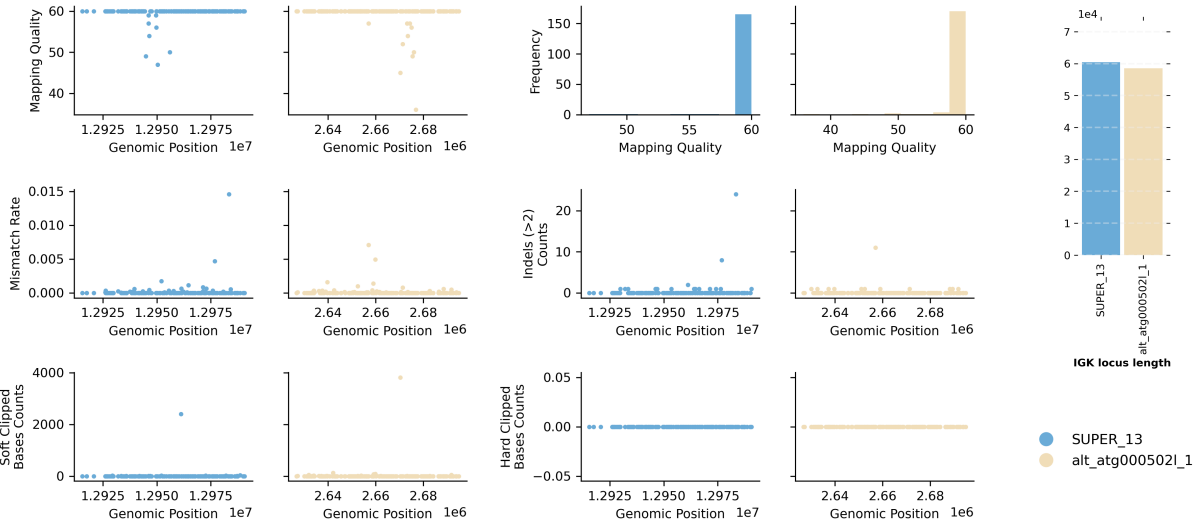
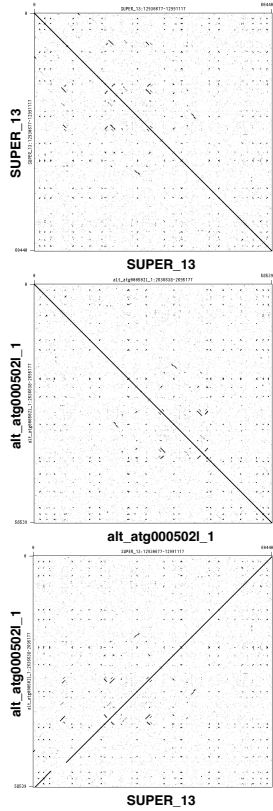
Species ID: mSteCoe1

Common Name: striped dolphin

Scientific Name: *Stenella coeruleoalba*

Assembly Type: Not Haplotype Resolved

Data Source: VGP



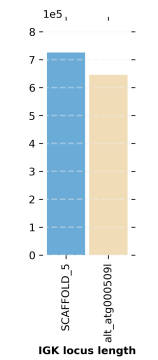
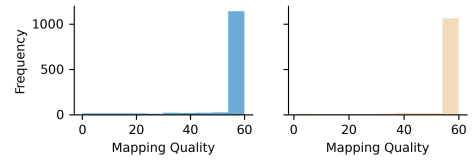
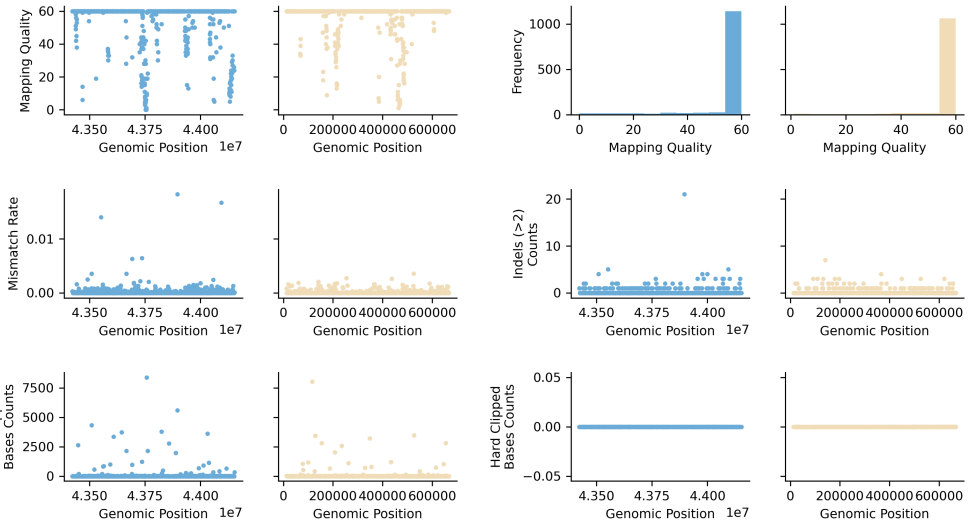
Species ID: mTalEur1

Common Name: European mole

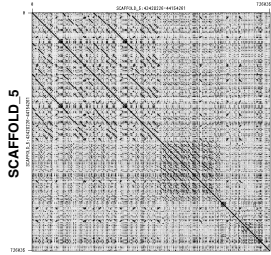
Scientific Name: *Talpa europaea*

Assembly Type: Not Haplotype Resolved

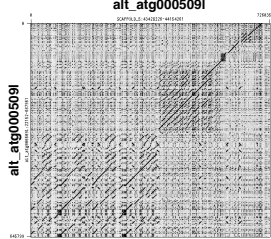
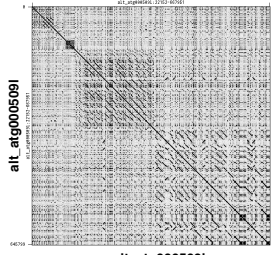
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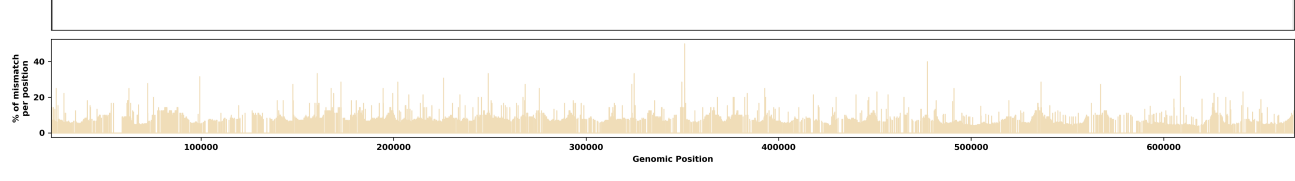
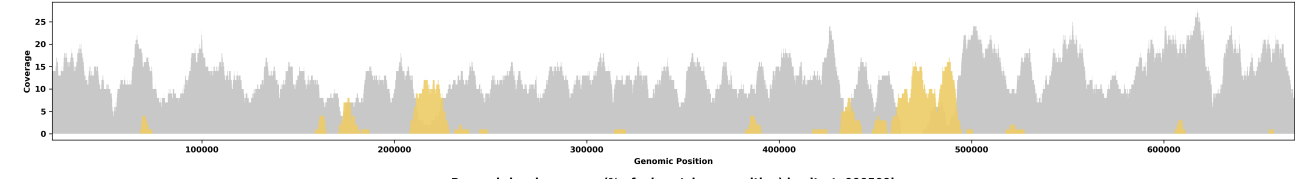
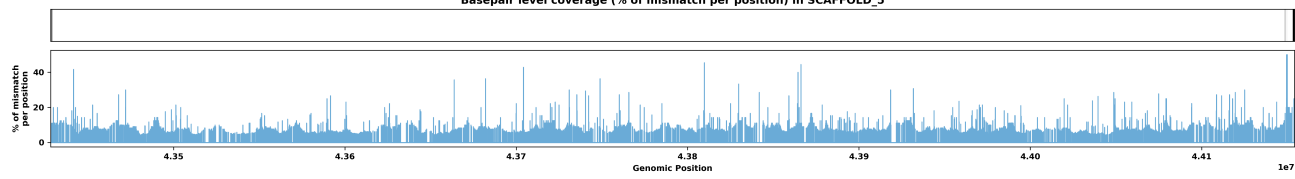
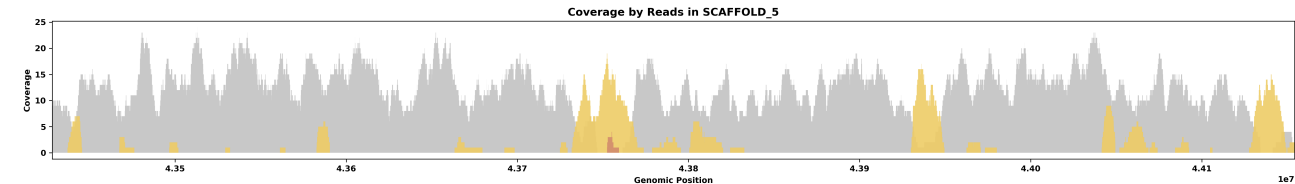
● SCAFFOLD_5
● alt_atg0005091



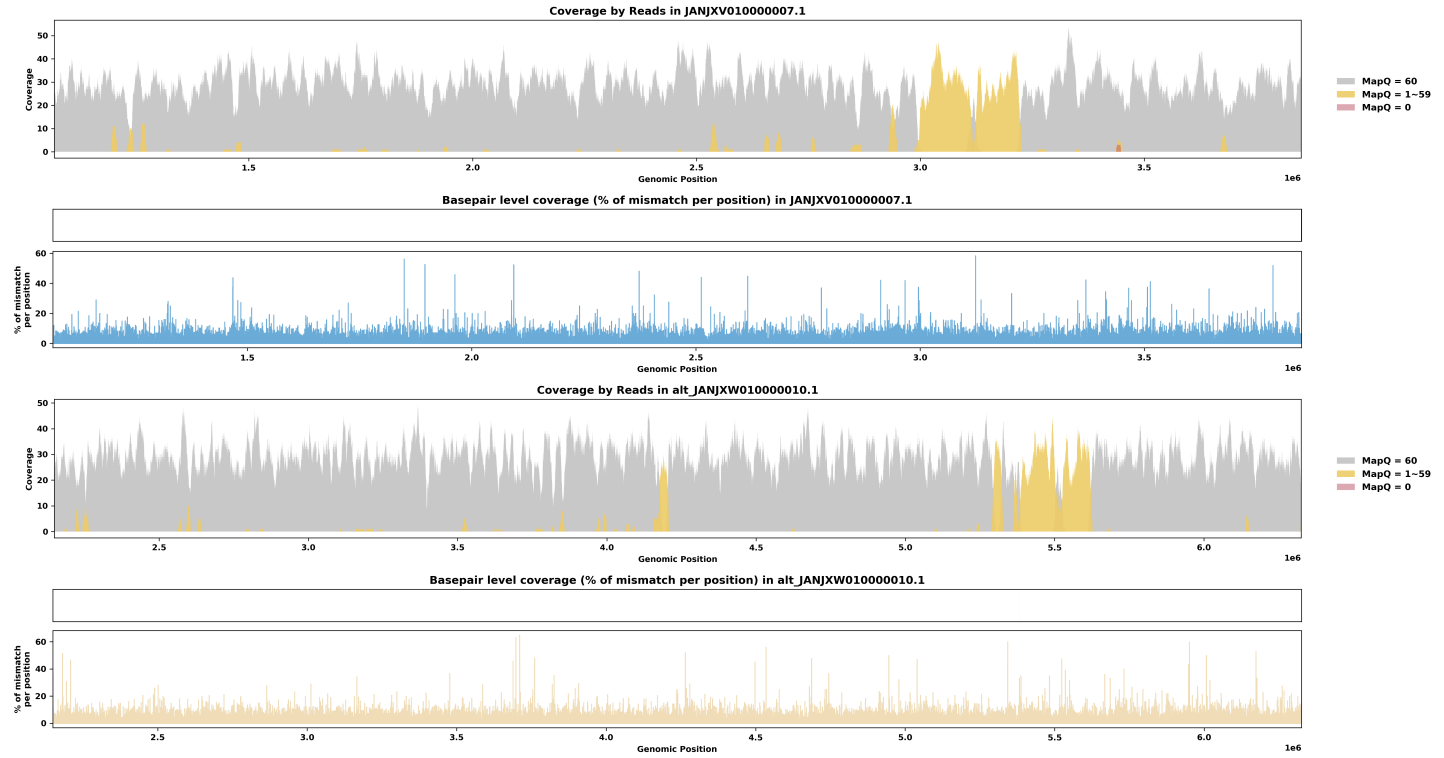
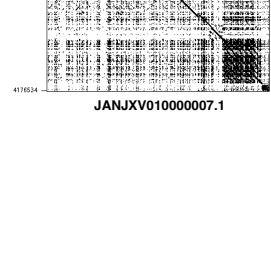
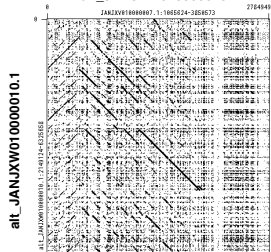
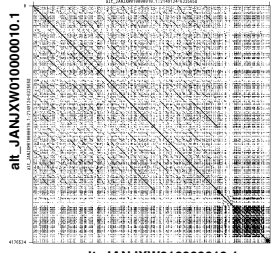
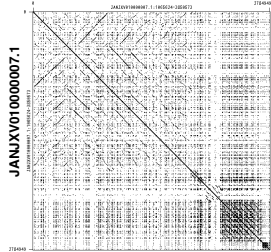
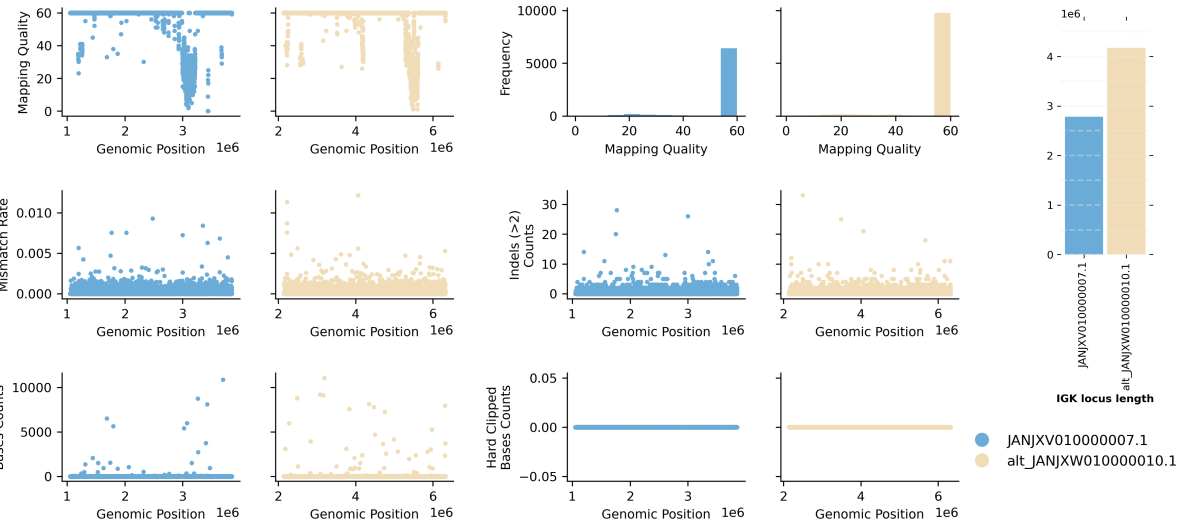
SCAFFOLD_5



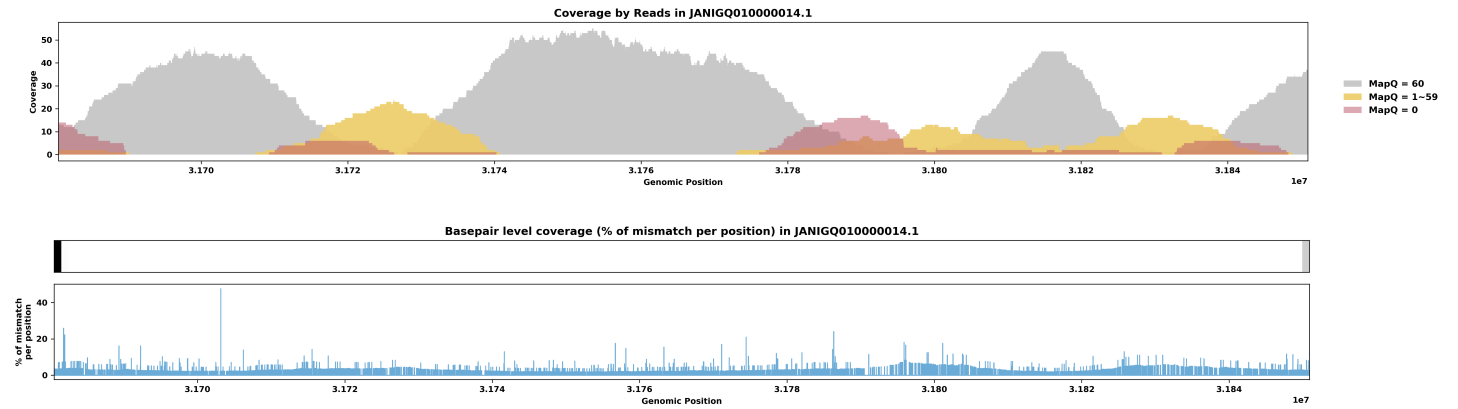
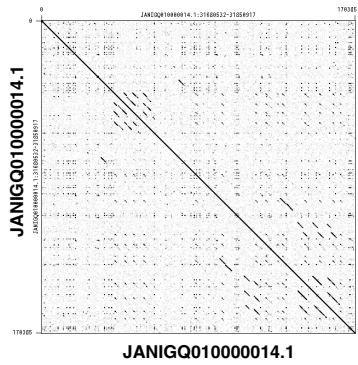
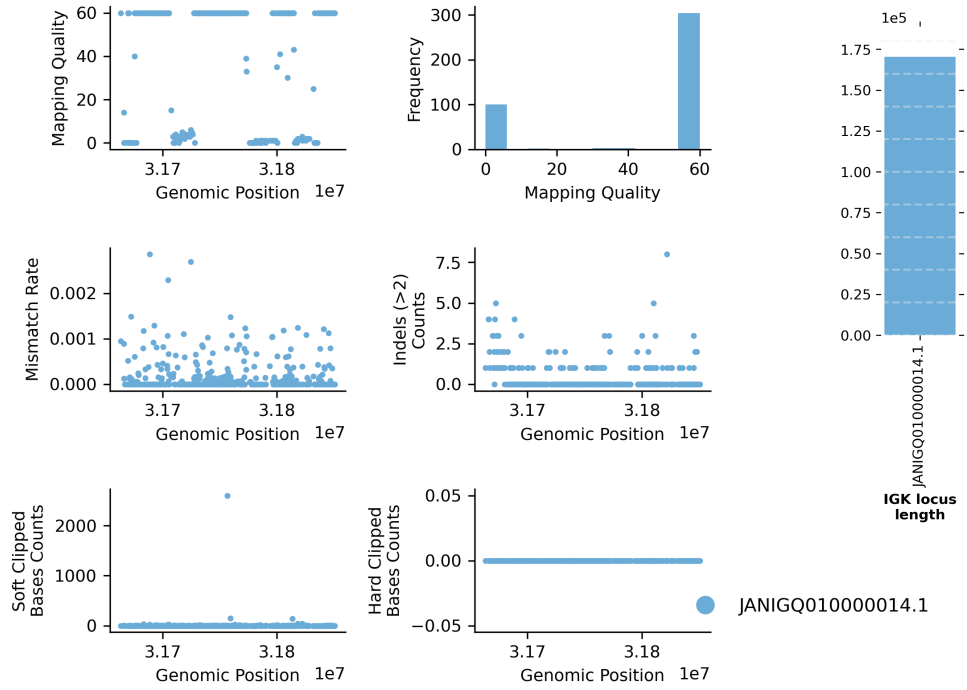
SCAFFOLD_5



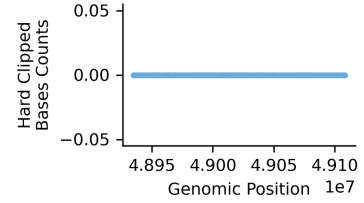
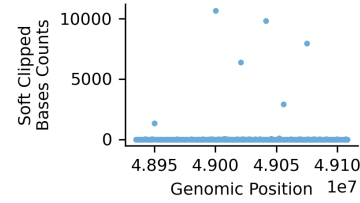
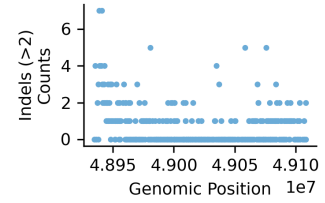
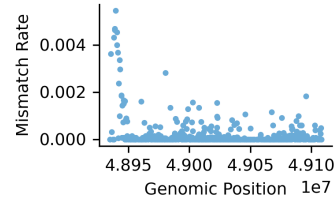
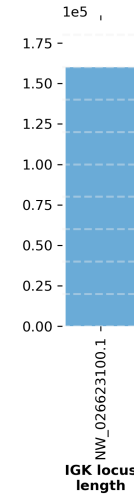
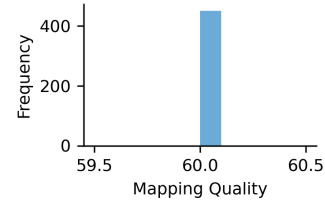
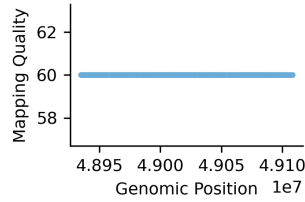
Species ID: mThoBot1
 Common Name: Botta's pocket gopher
 Scientific Name: Thomomys bottae
 Assembly Type: Not Haplotype Resolved
 Data Source: CCGP



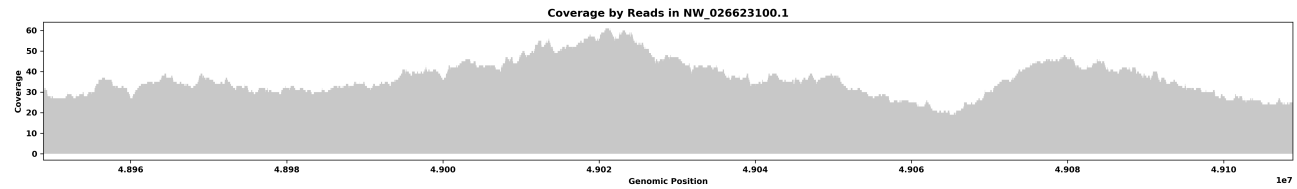
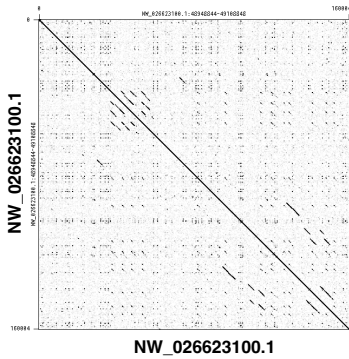
Species ID: mUrsAme1
 Common Name: American black bear
 Scientific Name: Ursus americanus
 Assembly Type: Not Haplotype Resolved
 Data Source: CCGP



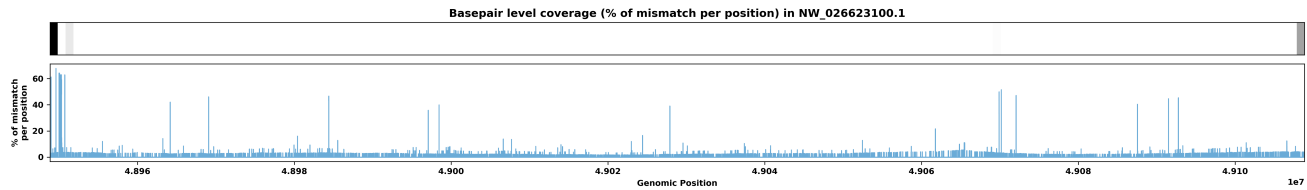
Species ID: mUrsArc2
 Common Name: brown bear
 Scientific Name: Ursus arctos
 Assembly Type: Not Haplotype Resolved
 Data Source: NCBI



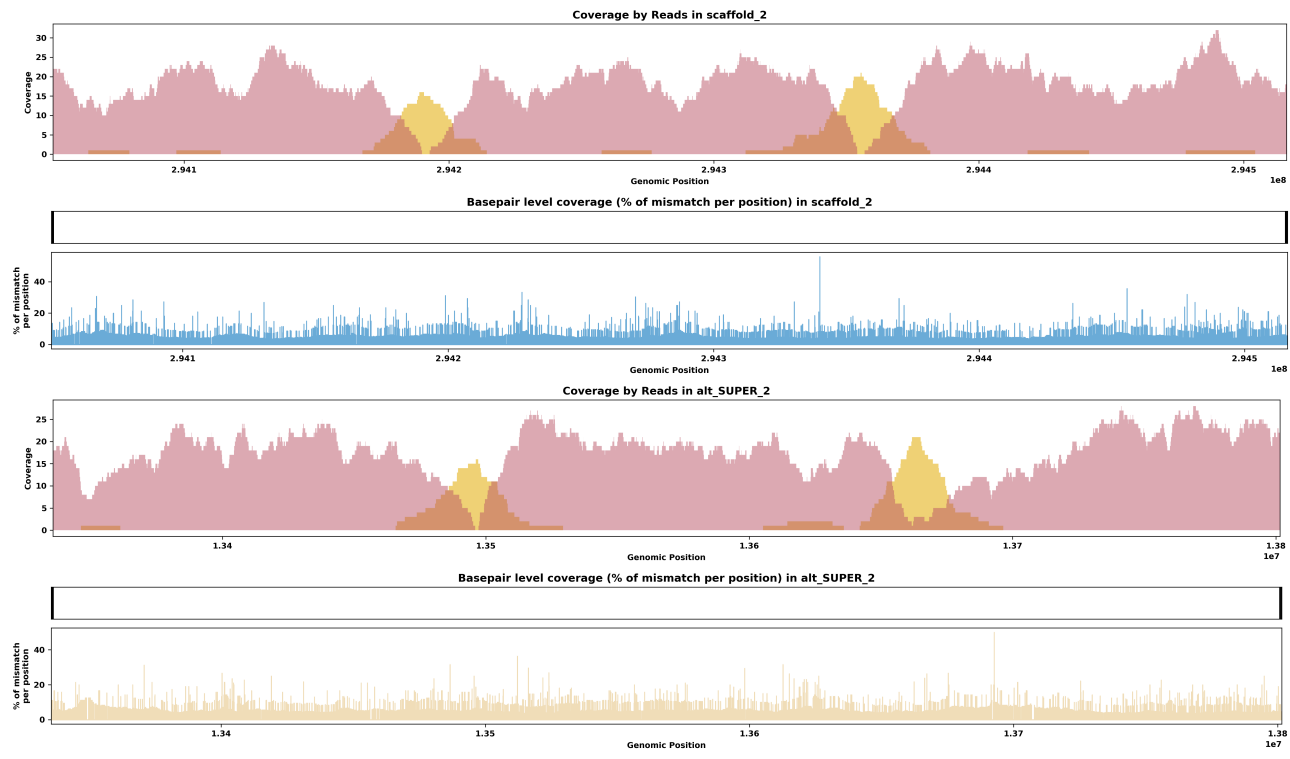
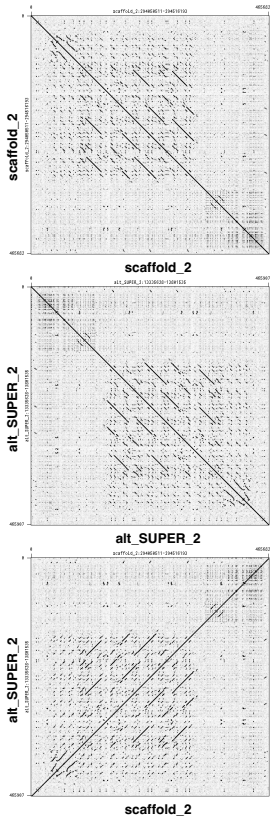
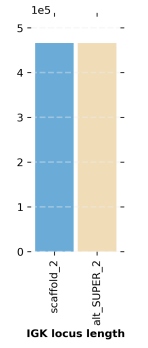
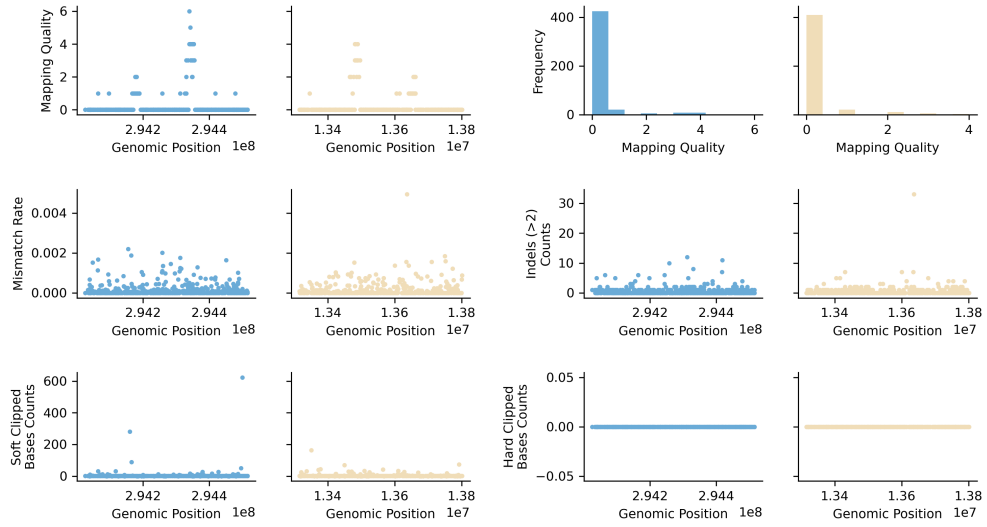
● NW_026623100.1



MapQ = 60
 MapQ = 1-59
 MapQ = 0

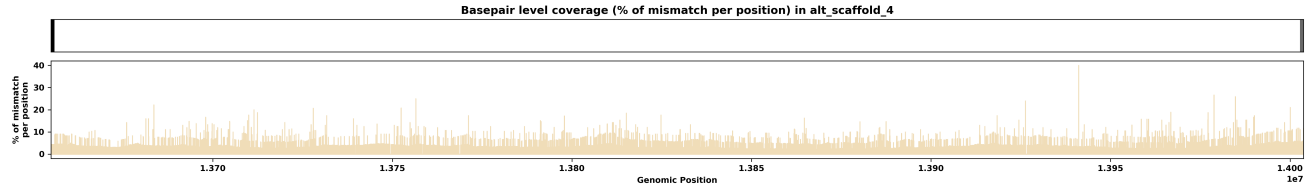
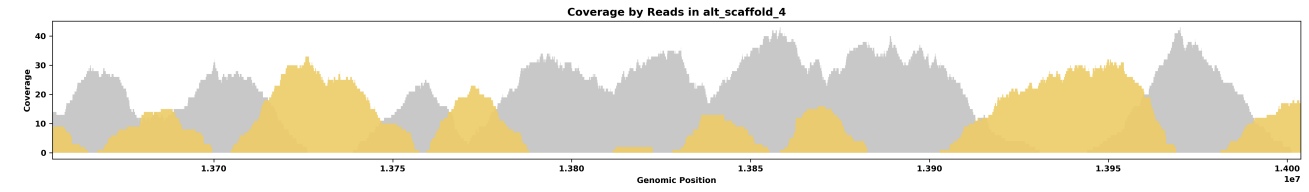
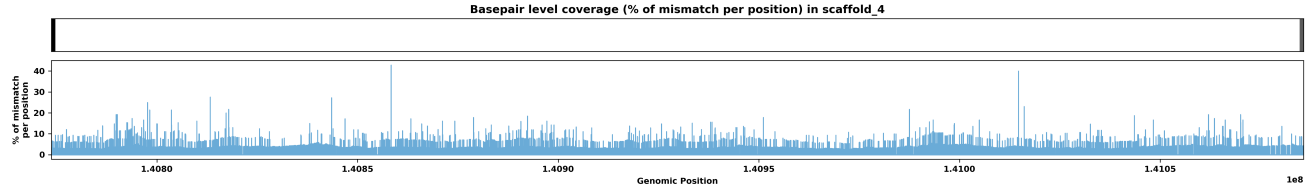
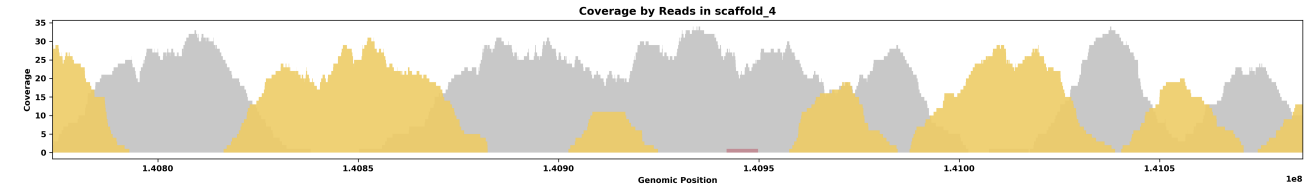
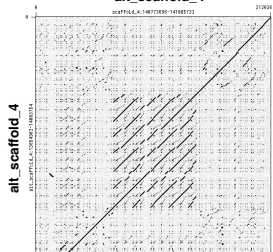
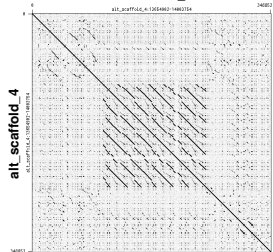
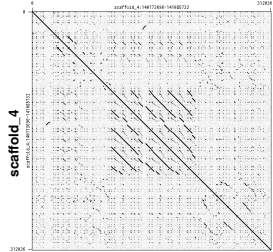
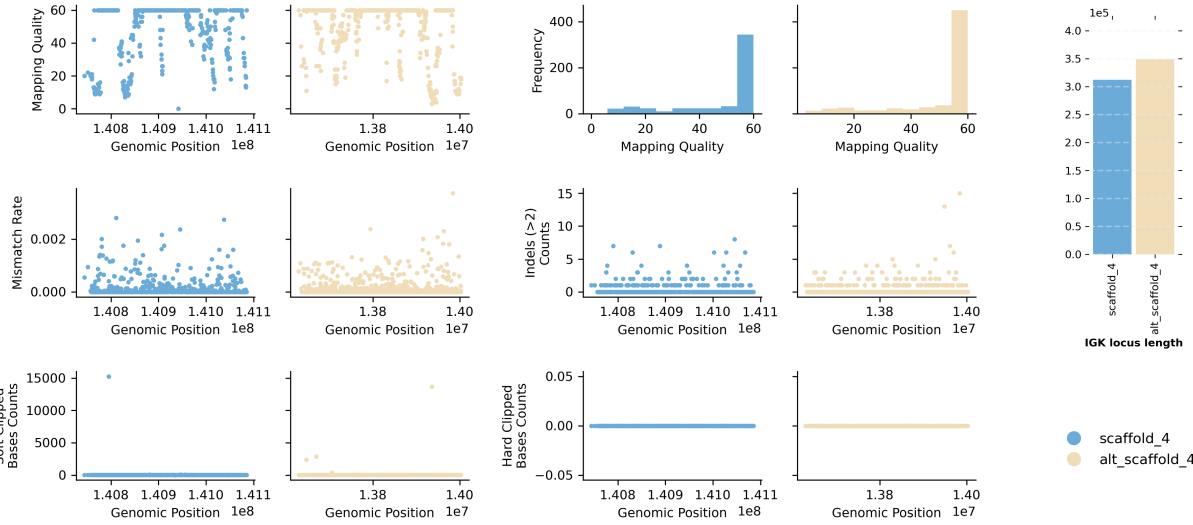


Species ID: rAllMis2
 Common Name: American alligator
 Scientific Name: Alligator mississippiensis
 Assembly Type: Haplotype Resolved
 Data Source: VGP

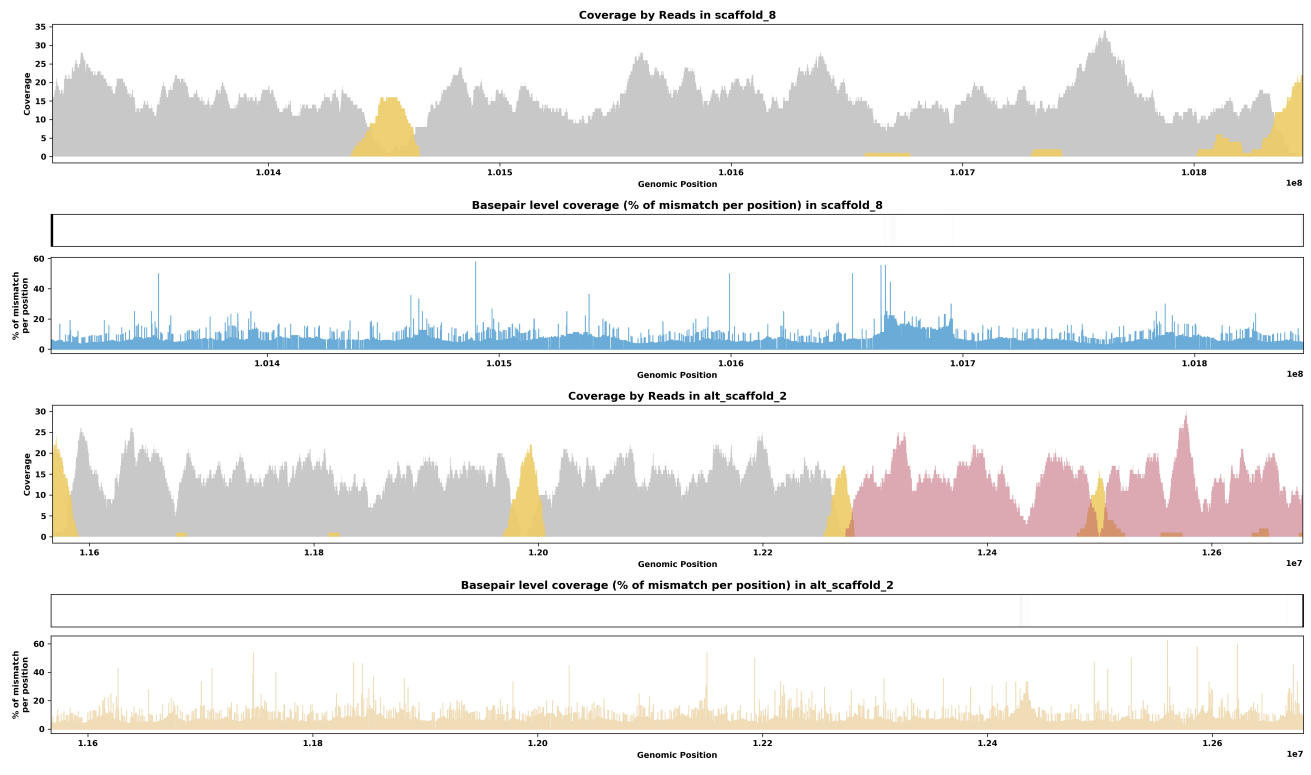
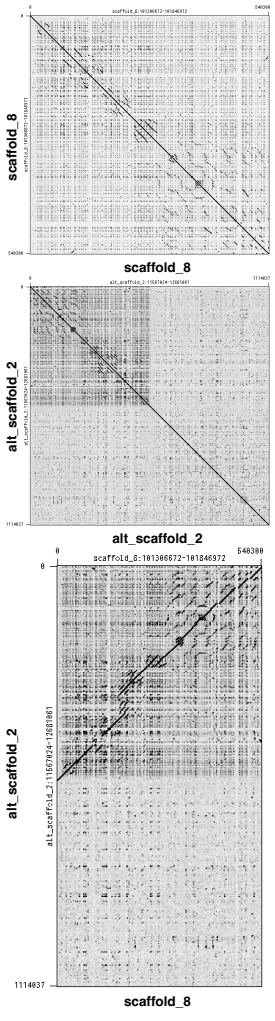
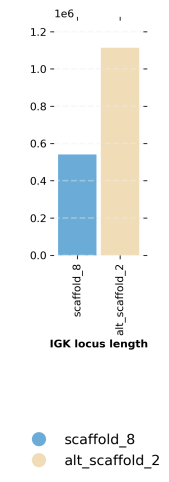
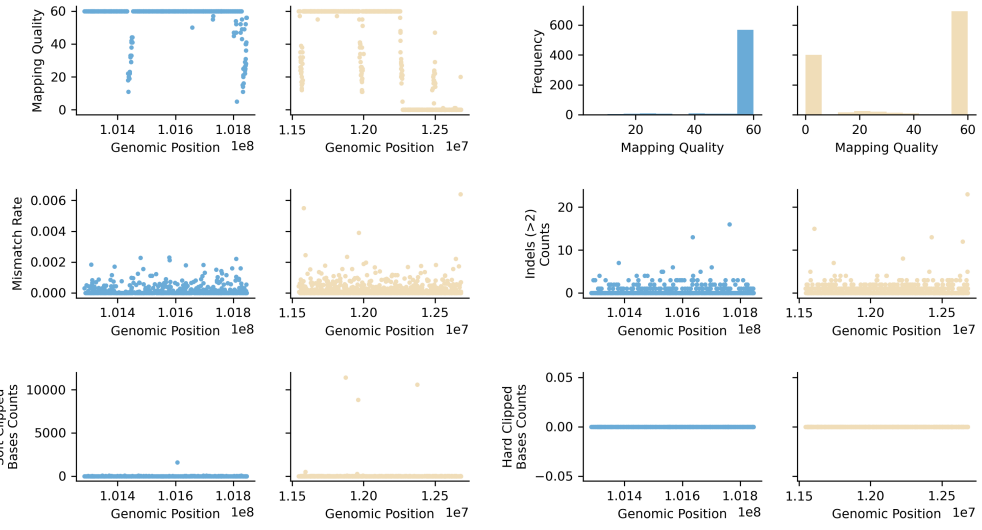


MapQ = 60
 MapQ = 1-59
 MapQ = 0

Species ID: rCarCar2
 Common Name: Loggerhead turtle
 Scientific Name: Caretta caretta
 Assembly Type: Haplotype Resolved
 Data Source: VGP



Species ID: rEmyOrb1
 Common Name: European pond turtle
 Scientific Name: *Emys orbicularis*
 Assembly Type: Haplotype Resolved
 Data Source: VGP



Species ID: rMaTer1

Common Name: diamondback terrapin

Scientific Name: Malaclemys terrapin

Assembly Type: Haplotype Resolved

Data Source: VGP

