dataPrepAutomate

→ input

code/dataPrepAutomated.sh

output →

aligned_bam/{species}/{species}_merged_sorted.bam
aligned_bam/{species}/{species}_merged_sorted.bam.csi

convertPrimaryBam

input

aligned_bam/{species}/{species}_merged_sorted.bam

output →

aligned_bam/{species}/{species}_merged_sorted_primary.bam
aligned_bam/{species}/{species}_merged_sorted_primary.bam.csi

lociLocation

→ input

/homel/zhuyixin/zhuyixin_proj/AssmQuality/assemblies/{species}.alt.fasta/homel/zhuyixin/zhuyixin_proj/AssmQuality/assemblies/{species}.pri.fastacode/refGene.sh

output →

/home1/zhuyixin/zhuyixin_proj/AssmQuality/gene_position/{species}/Ig_loci_details.txt /home1/zhuyixin/zhuyixin_proj/AssmQuality/gene_position/{species}/ref_loci_details.txt gene_position/{species}/final.Ig_loci.txt

cigarProcessing

→ input

aligned_bam/{species}/{species}_merged_sorted_primary.bam
aligned_bam/{species}/{species}_merged_sorted_primary.bam.csi
code/cigar_processing_region.py
gene_position/{species}/final.Ig_loci.txt

output →

errorStats/{species}/IGH.txt
errorStats/{species}/IGK.txt
errorStats/{species}/IGL.txt
errorStats/{species}/nonIG.txt

coverageAnalysis

→ input

aligned_bam/{species}/{species}_merged_sorted_primary.bam
aligned_bam/{species}/{species}_merged_sorted_primary.bam.csi
gene_position/{species}/final.Ig_loci.txt

output →

errorStats/{species}/IGH_alt_pileup.txt
errorStats/{species}/IGK_alt_pileup.txt
errorStats/{species}/IGL_alt_pileup.txt

all

→ input

errorStats/mPumCon1/IGH.txt
errorStats/mPumCon1/IGH_alt_pileup.txt
errorStats/mPumCon1/IGK.txt
errorStats/mPumCon1/IGK_alt_pileup.txt
errorStats/mPumCon1/IGL.txt
errorStats/mPumCon1/IGL_alt_pileup.txt
errorStats/mPumCon1/IGL_alt_pileup.txt