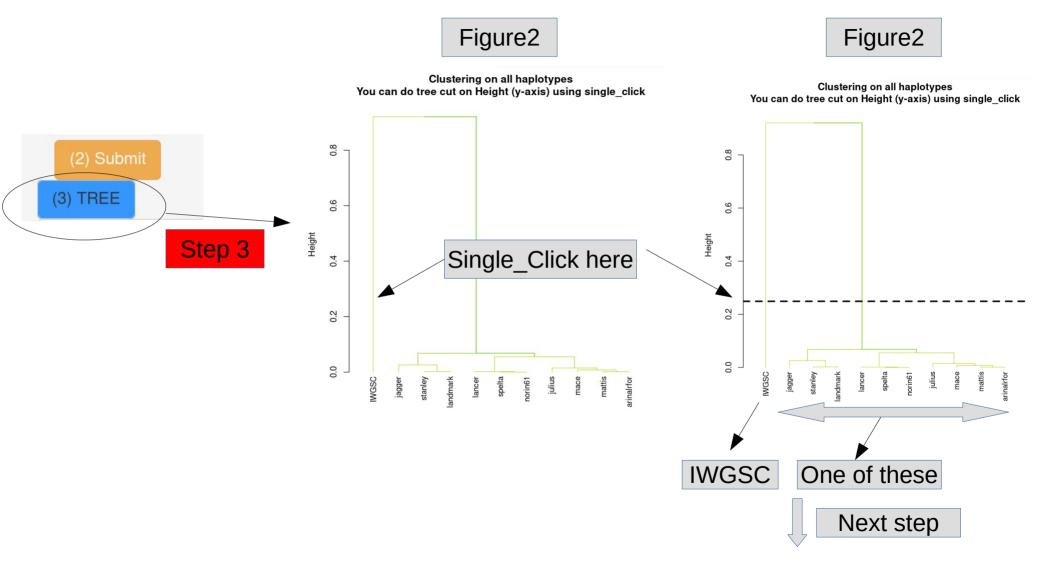
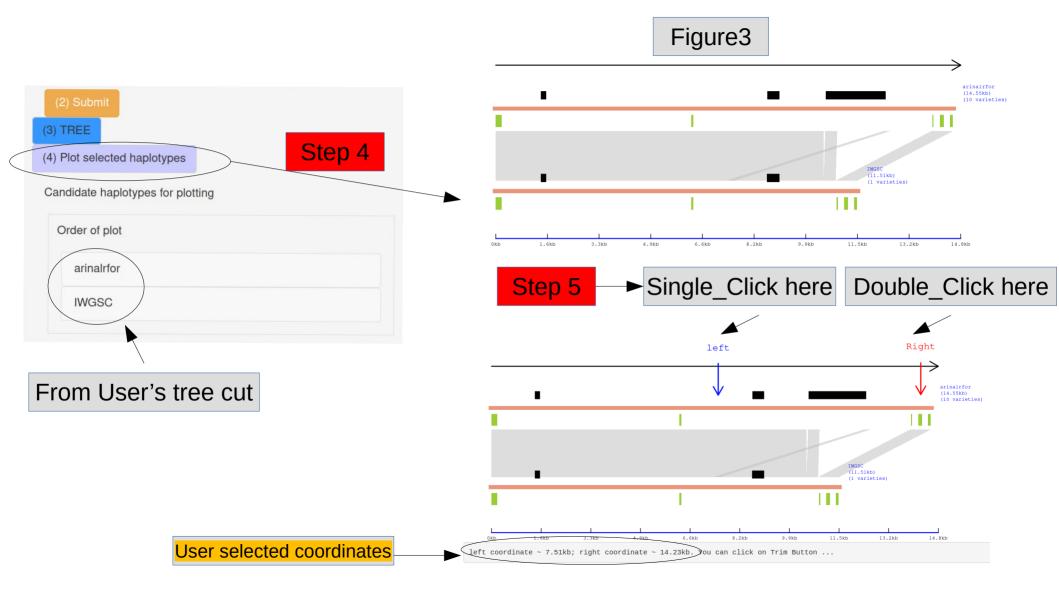
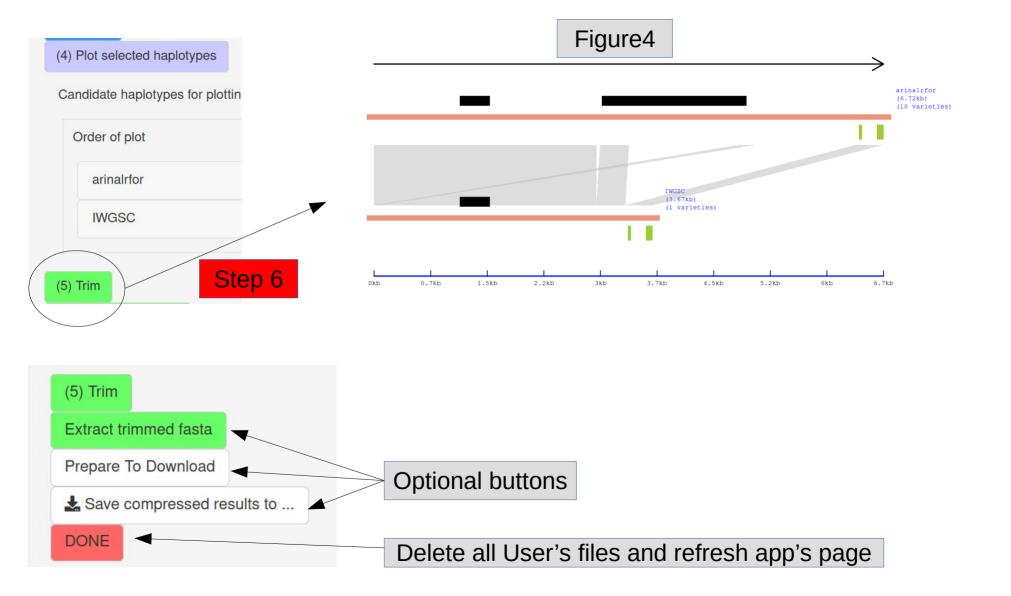
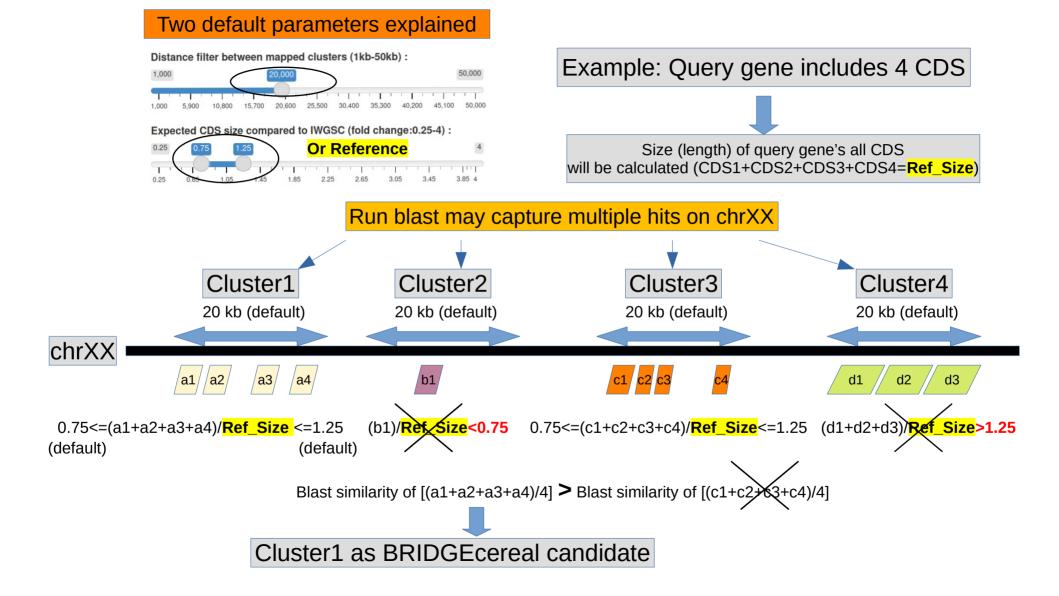
Summary Of Buttons (1) Check Gene ID Fill in matched reference genome and chromosome automatically (2) Submit Run BRIDGEcereal to get Figure1 **Button** Clustering haplotypes (Figure2) (3) Tree **Button** (optional) User defined Tree cut (Single Click tree's Y axis) to obtain representative haplotypes **Button function** Reveal Figure 3 based on User's tree cut (4) Plot selected haplotypes User defined region to trim (Single_Click at top of figure3 as left coordinate; Double Click at top of figure 3 as right coordinate) (5) Trim Reveal Figure 4 based on User selected trimming region Extract trimmed fasta — Extract fasta file based on User's trimmed coordinates Prepare To Download To compress User's BRIDGEcereal output as one .zip file Save compressed results to ... Ready to save .zip file to User defined folder ... DONE Delete all processed files of this User and refresh BRIDGEcereal page

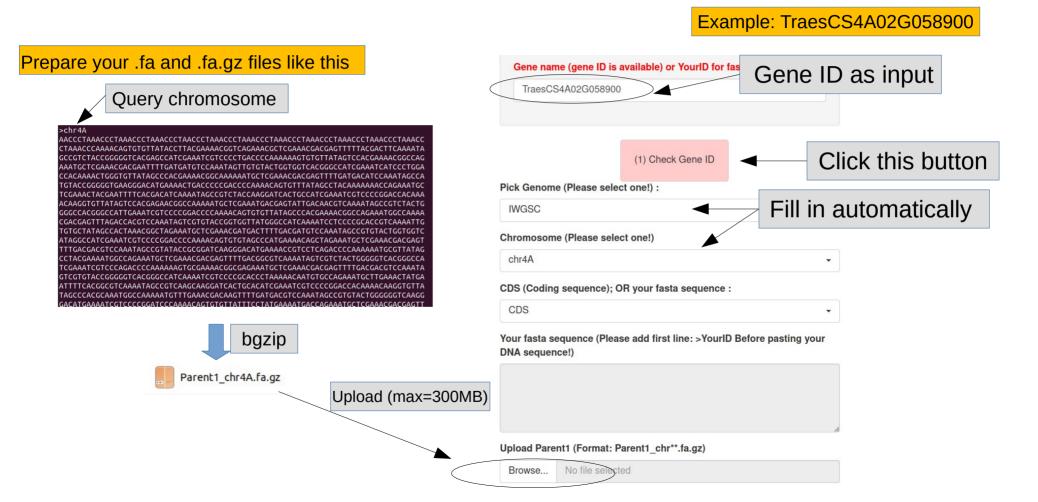
Gene ID is available Gene name (gene ID is available) or YourID for fasta sequence User's gene ID as input TraesCS4A02G058900 Step 1 Click this button (1) Check Gene ID Pick Genome (Please select one!) : **IWGSC** Fill in automatically Chromosome (Please select one!) chr4A CDS (Coding sequence); OR your fasta sequence : CDS -As default for query gene Upstream (kb), max input should <=100 (kb) (0-100kb) as input Figure1 User can update Downstream (kb), max input should <=100 (kb) two values later (0-100kb) as input (11.51kb) Distance filter between mapped clusters (1kb-50kb) : (14.69kb) julius (14.59kb) 1,000 50.000 (14.52kb) 10,800 15,700 20,600 25,500 30,400 35,300 40,200 45,100 50,000 landmark (14.8kb) Expected CDS size compared to IWGSC (fold change:0.25-4): (14.52kb) mattis (14.56kb) norin61 (14.51kb) Click this button (14.51kb) Step 2 1.6kb 3.3kb 4.9kb 6.6kb 8.2kb 9.9kb 11.5kb 13.2kb 14.8kb











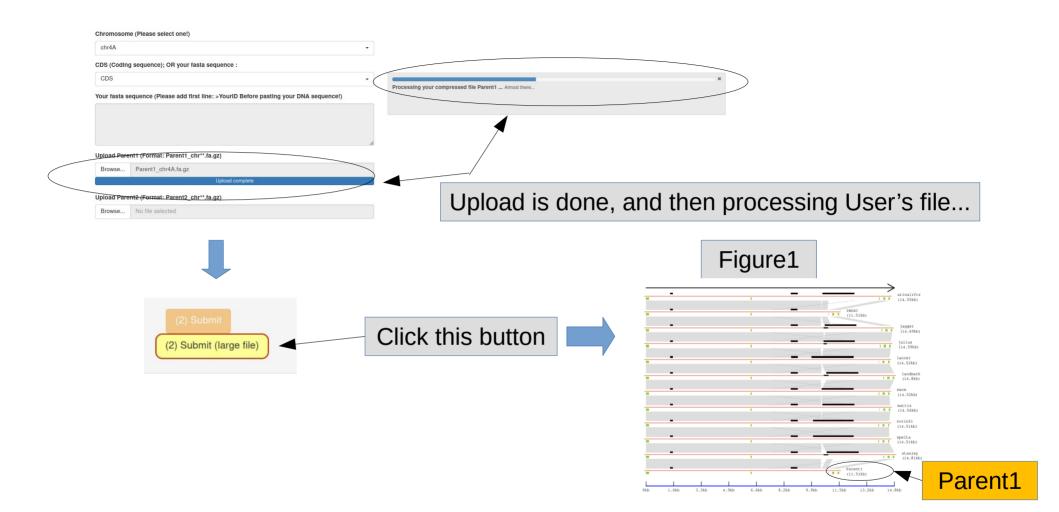
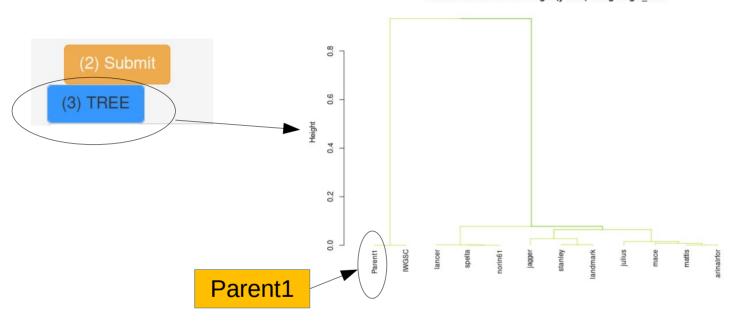


Figure2

Clustering on all haplotypes You can do tree cut on Height (y-axis) using single_click



User needs to compare a fasta sequence with pan-genomes

