

**A Annotation header**

**In Silico Prediction**

Generic Deleteriousness Scores     sSNV Deleteriousness Scores     Regulatory/Functional Scores

**External Database Annotation**

<input type="checkbox"/> ClinVar	<input type="checkbox"/> COSMIC v100	<input type="checkbox"/> DisGeNet
<input type="checkbox"/> VariSNP	<input type="checkbox"/> GWAS Catalog	<input type="checkbox"/> GRASP v2
<input type="checkbox"/> dbDSM v2	<input type="checkbox"/> ClinGen	<input type="checkbox"/> PharmGKB
<input type="checkbox"/> Geuvadis	<input type="checkbox"/> GTEx	<input type="checkbox"/> DICE eQTL

**Allele Frequency**

<input type="checkbox"/> gnomAD v4	<input type="checkbox"/> ExAC	<input type="checkbox"/> ESP6500
<input type="checkbox"/> UK10K	<input type="checkbox"/> 1000GP	<input type="checkbox"/> TOPMed BRAVO
<input type="checkbox"/> CG46	<input type="checkbox"/> CG69	<input type="checkbox"/> GME
<input type="checkbox"/> AbraOM	<input type="checkbox"/> Kaviar	<input type="checkbox"/> HRC
<input type="checkbox"/> NCI-60	<input type="checkbox"/> Primate	

**Epigenetics**

<input type="checkbox"/> Enhancer/Promoter	<input type="checkbox"/> Transcript Factor	<input type="checkbox"/> ChromHMM
<input type="checkbox"/> ENCODE	<input type="checkbox"/> ORegAnno	<input type="checkbox"/> m6A Sites

**De Novo Variant**

**B User settings**

**Upload Your File**

**Click to Upload**

**Example VCF File**

Only one file is allowed to be uploaded. You can click the Example VCF File to download a test file.

**Input Genome Version**

hg19     hg38

Email

Please enter email

\*The processing time varies based on your data size. For large datasets, this may take considerable time. To avoid waiting, you can: 1) Provide your email to receive a notification upon completion; 2) Use the task ID pop up on this page to check status and download results later

**Retrieve**   **Reset**   **Demo Output**

**Success**

The task has entered the processing queue, you can now leave the page. Your task ID is: 00606621-54f5-47fb-aa8c-c42139117f9c. When the task is completed, we will use an email to remind you.

Check the status of your submitted jobs on SynMall using the interface below:

Query Status:  **Check**

**Job is Completed!** 

**Supplemental Figure S10.** Batch self-service annotation. The annotation page in SynMall. (A) The annotation panel features a customizable header section. (B) Users simply need to upload a VCF file, specify the reference genome. Users can leave an email to receive notifications upon task completion. Alternatively, they can retrieve and obtain tasks on the homepage using a task ID without providing an email address.