SAAMBE-SEQ

Running predictions

User Input Mutations

	over Single Mutation	
Sequence Selection 1	Sequence Selection (2)	
Predicting the effect of one mutation only for this protein complex Please Provide the Mutated Chain Sequence	Predicting the effect of multiple single mutations within the same protein complex - requires text file with mutations list	
>fastaA FPTIPLSRLP QKSNLELLRISLLLQSWLEPVQFLRSVFANSLVYGASDSNVYDLLKDLEERIQTLMGRLEDGSPRTG QIFKQTYSKFDTNSHNDDALLKNYGLLYCFRKDMDKVETFLRIVQCRSVEGSCGF		
Please Provide the Interaction Chain Sequence	Please Provide the Interaction Chain Sequence	
OR, Upload the sequence in FASTA format Click here to Download a sample FASTA format Upload the Muatated Chain Sequence Browse 5 Upload the Interaction Chain Sequence Browse 6	OR, Upload the sequence in FASTA format Click here to Download a sample FASTA format Upload the Mutated Chain Sequence Browse Upload the Interaction Chain Sequence Browse	
Mutation Details	Mutation Dataila	
Position: Original Amino Acid: 182 7 C V 8 Mutated Amino Acid:	Browse 10 Upload a plain text file with one mutation per line,click here to view an example for reference	

- The *Single Mutation* (1) option allows the user to submit one single mutation for prediction. User must provide two sequences corresponding to two protein chains.
 - Users are required to provide a wild-type sequence (the chain where the mutation is located) by pasting **(3)** a sequence in fasta format or uploading **(5)** a file in fasta format.
 - Users also are required to provide the interaction sequence of another chain by pasting **(4)** a sequence in fasta format or uploading **(6)** a file in fasta format.
 - Details on the single mutation should be provided: **(7)** *residue position*, **(8)** *wild type amino acid* and **(9)** *mutant amino acid* (using the one letter amino acid code). The residue position must be consistent with the sequence file.
- The *Mutation List* (2) option allows the user to submit a list of single mutations to be analyzed in batch.

- Similar to the *Single Mutation* option, a wild-type sequence is required and can be input by pasting a sequence in fasta format or uploading a file in fasta format.
- The list of single-point mutations must be input **(10)** by uploading a file containing the mutation information (*wild-type* residue code, *position* and *mutant* residue code). The file format requires one mutation per line (split by space). A sample file is also provided.

Results						
	Original Amino Acid:	Mutated Amino Acid:	Submit Ouerv			
Submit Query						
Results will be displayed here						
Please click here to open the Output File						

Single Mutation and Multiple single mutations

• The predicted ΔΔG for mutation will be displayed on the bottom of the same page. Users can download the output file.