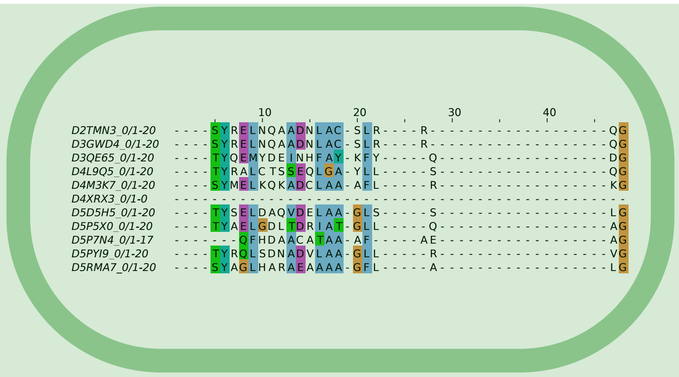
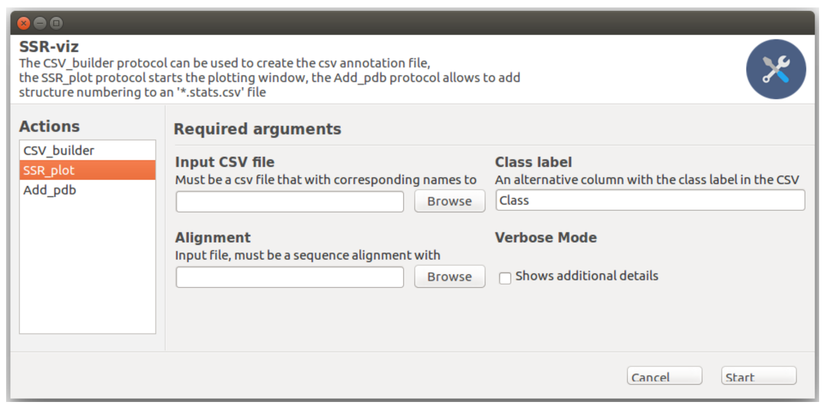
a) Input



	A	B	C	D
1	Name	Class	Class_2	Class_3
2	A3KFG6_2	P	Pro_S	CyAl_NH2
3	A4F3K7_0	P	Pro_S	CyAl_NH2
4	B9UJ06_1			
5	B9UJ06_2	C	Cys	Po_ali_SH
6	B9UJ18_0	V	Ali_branch_hb	Apo_ali
7	B9UIZ7_1	N	Asp_Asn	Ali_HB_don
8	B7X8D6_1	C	Cys	Po_ali_SH
9	B7X8D6_2	V	Ali_branch_hb	Apo_ali
10	B7X8D7_1	S	Ser_S	Group_OH
11	B7X8D7_2	G	Ali_hf	Apo_ali
12	B7X8E8_0	W	Unpol_Ar	Aro_chain
13	B5GVJ5_0	C	Cys	Po_ali_SH
14	B6D9A8_1			
15	B6D9A8_2	F	Unpol_Ar	Aro_chain

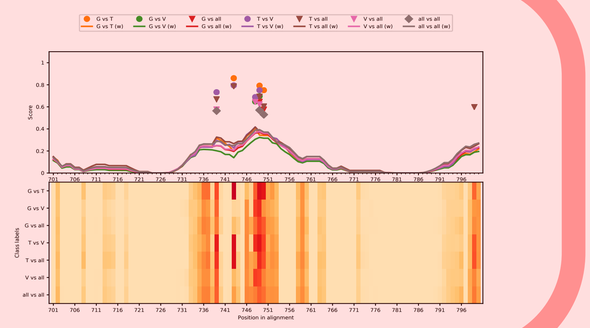


CSV

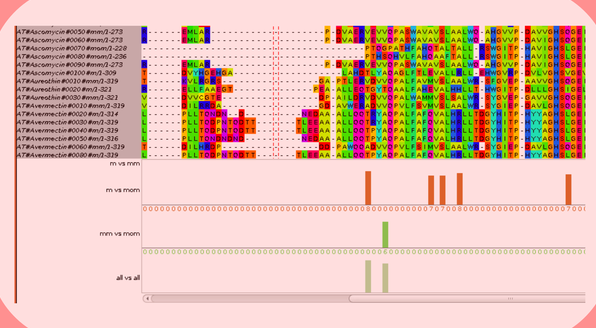
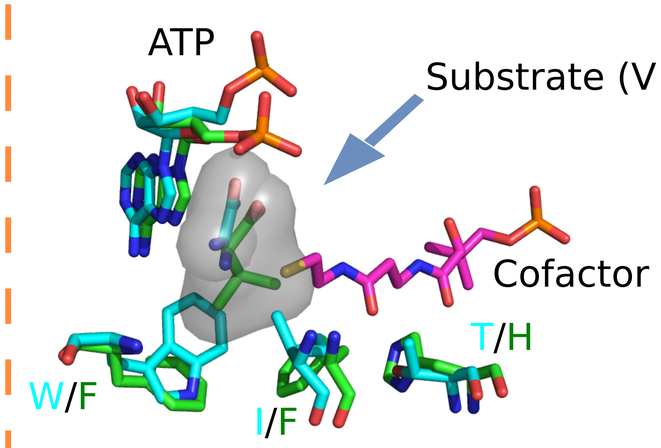
	A	B	C	D	E	F	G	H
1	G vs V							
2	Position	Score	G Cons	G All res.	V Cons	V All res.	3vns_val.pdb	4zxi_G.pdb
3	486	0.7393283526	I	AGILMV	A	AFGILPTV	209	671
4	749	0.6927155855	W	ACFNQST	F	ACDFGHILVY	315	769
5	478	0.675850565	T	AGLNSTV	S	AGHNST	203	665
6	601	0.6602872413	W	AFILMTV	F	-AFILVWY	257	719
7	748	0.6435246115	I	ILMTV	T	IMSTV	314	768
8	591	0.6288730013	Q	FGHKMNQ	W	ACDFGMNQSVW	251	713
9	592	0.6135144936	A	AFGLMQS	L	AFGILMQTV	252	714
10	404	0.5796734282	F	AFHILTV	Y	AFLNSV	183	645
11	403	0.5750956162	N	ADHMNRS	R	ADEGHKLNQRST	182	644
12	479	0.5680646559	T	AGMNPST	N	AGNPST	204	666

b) Output

matplotlib



Jalview



c) Results