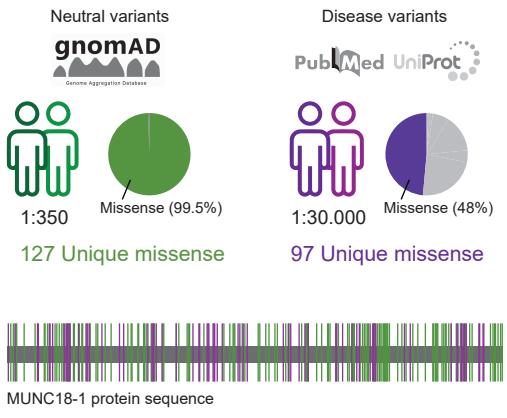
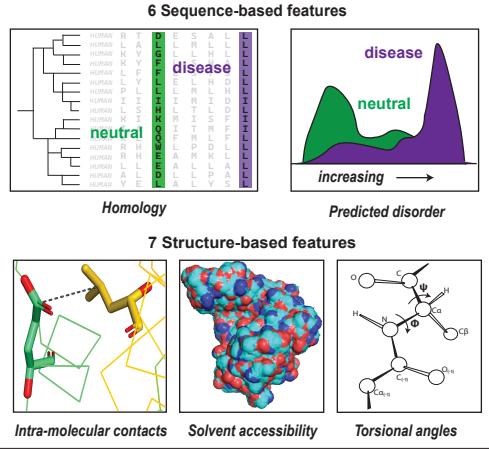


### A STXBP1 variants - dataset assembly

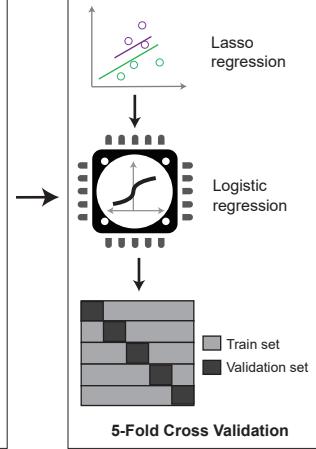


Training set  
~90% of variants

### B Feature inclusion

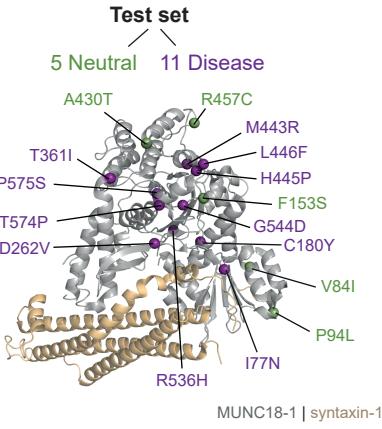


### C Machine-learning



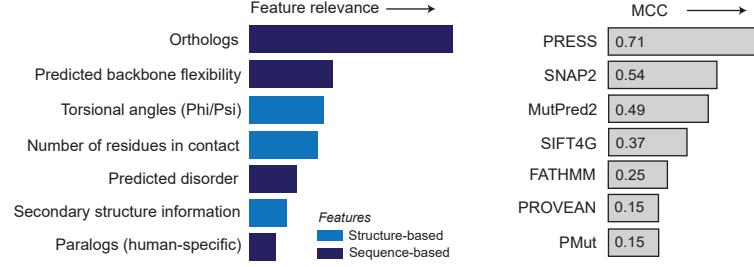
Test set  
~10% of variants

### D



### E

#### Test & Benchmark



Variant	Clinical phenotype	Reference
I77N	Early onset epileptic encephalopathy	Weckhuysen (2013)
C180Y	Ohtahara/West Syndrome	Saito (2008)
D262V	Early onset epileptic encephalopathy	NL cohort
T361I	-	Cherot (2018)
M443R	Ohtahara/West Syndrome	Saito (2008)
H445P	Dravet Syndrome	Carvill (2014)
L446F	Lennox-Gastaut Syndrome	Lammertse (2020)
G544D	Ohtahara/West Syndrome	Saito (2008); Allen (2013)
T574P	Ohtahara Syndrome	Milh (2011)
R536H	Neurodevelopmental disorder	Xian (2021)
P575S	Early onset epileptic encephalopathy	Stamberger (2016)

→

### F

