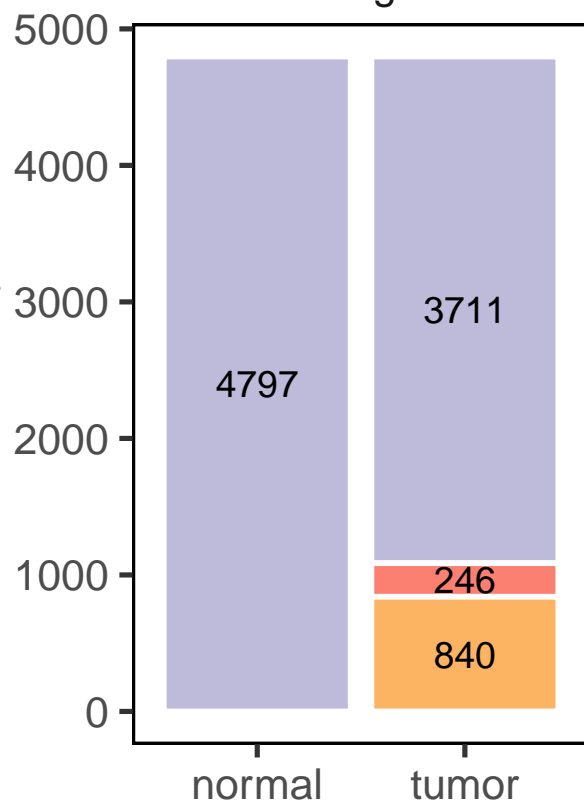


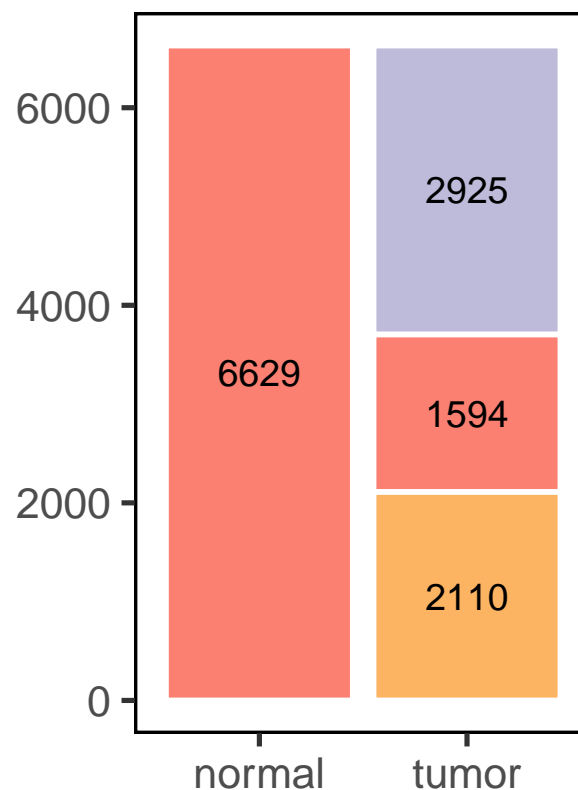
# Model substitutions for the union between normal and tumor triplets (N=21017)

- Causal ( $V \rightarrow T \rightarrow G$ )
- Independent ( $V \rightarrow T$  &  $V \rightarrow G$ )
- Reactive ( $V \rightarrow G \rightarrow T$ )

Causal model changes



Independent model changes



Reactive model changes

