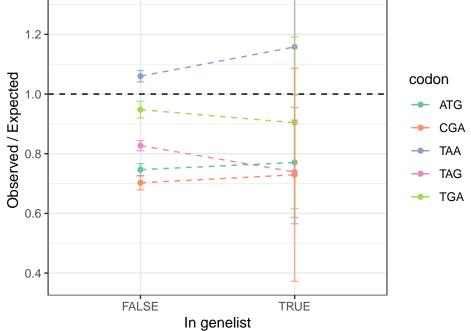
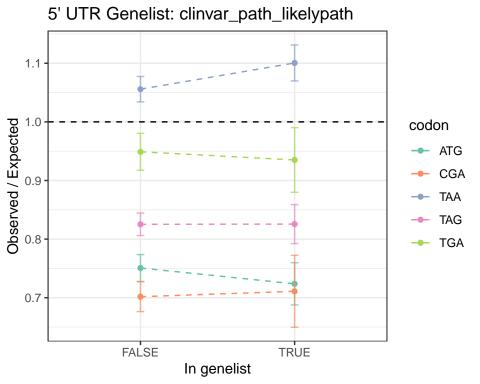
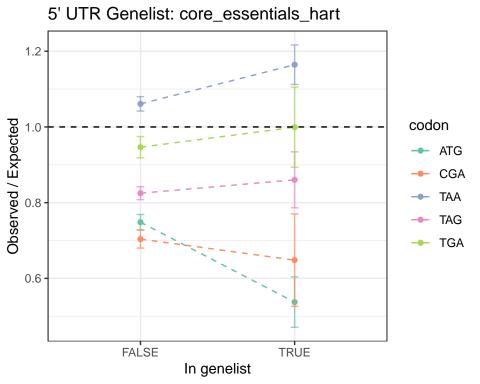


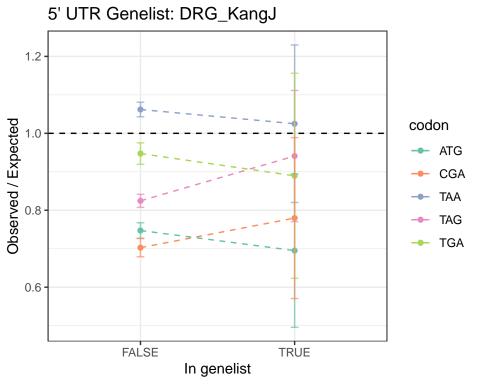
5' UTR Genelist: clingen\_level3\_genes\_2015\_02\_27 codon **ATG CGA** TAA

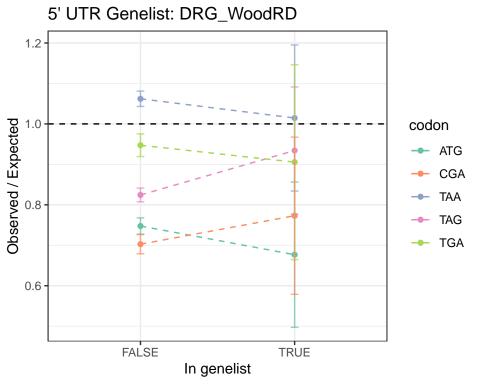


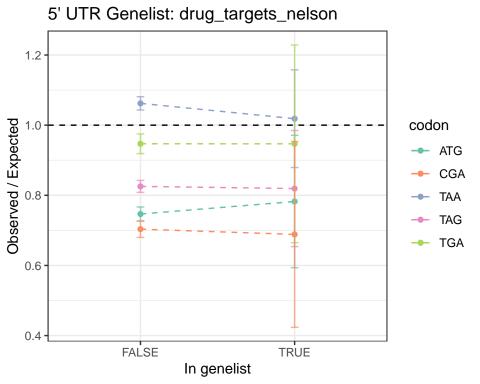
5' UTR Genelist: clingen\_level3\_genes\_2018\_09\_13 1.2 Observed / Expected codon 1.0 **ATG CGA** TAA **TAG TGA** 0.6 0.4 -FALSE TRUE In genelist

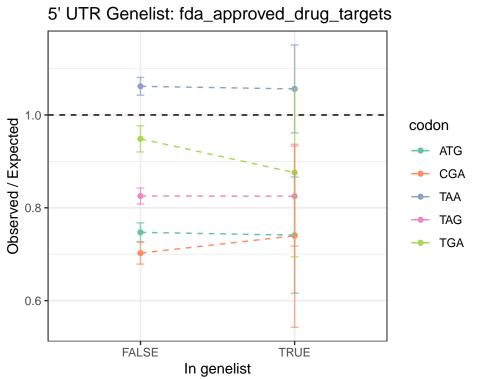


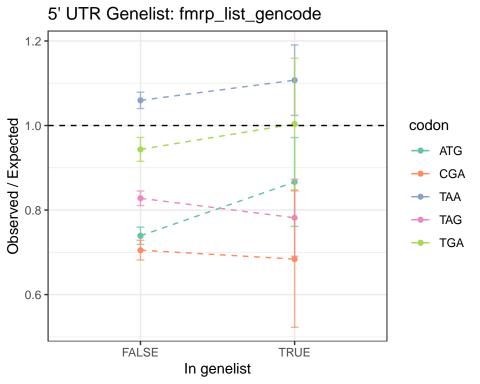


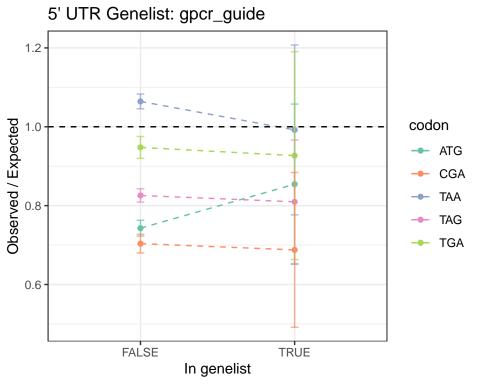


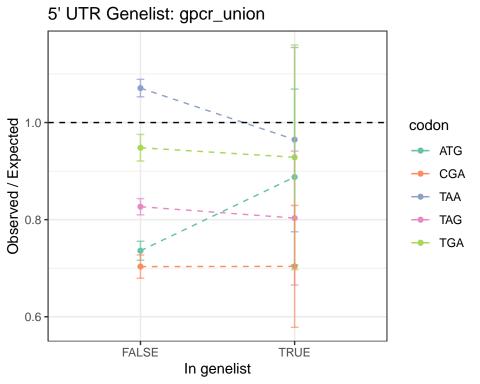


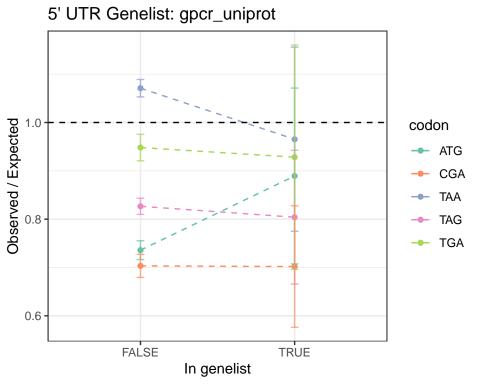


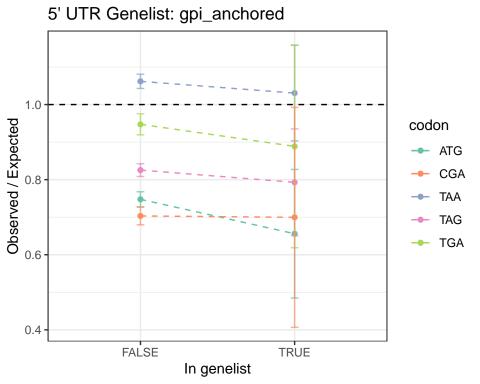


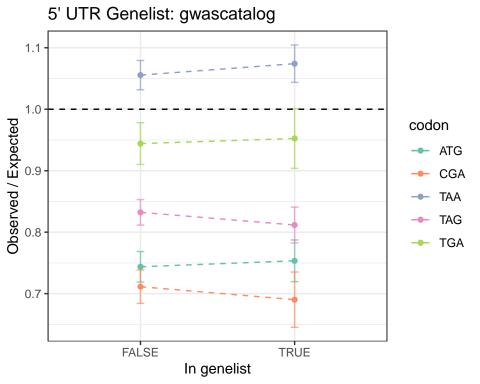




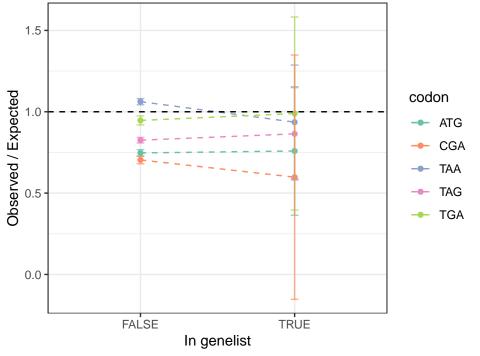


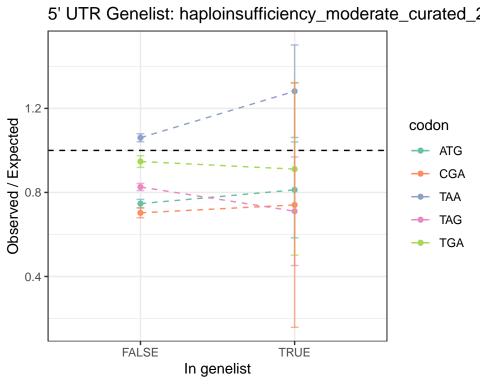


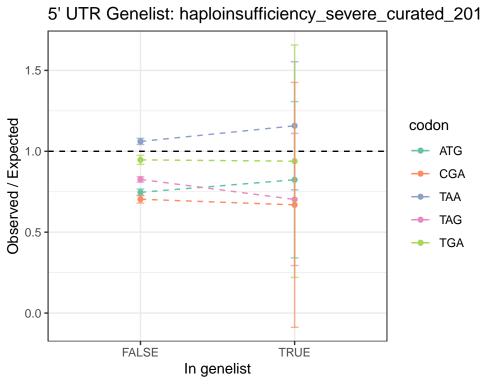


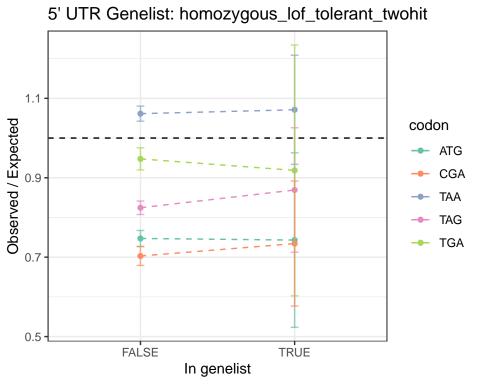


5' UTR Genelist: haploinsufficiency\_mild\_curated\_2016

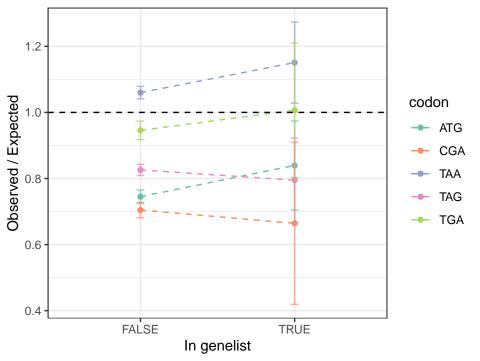


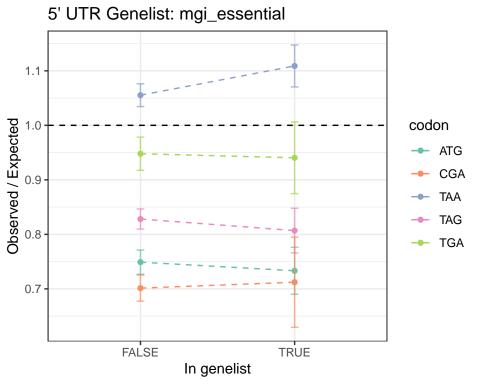


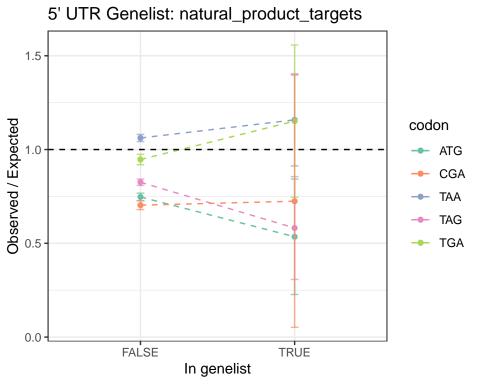


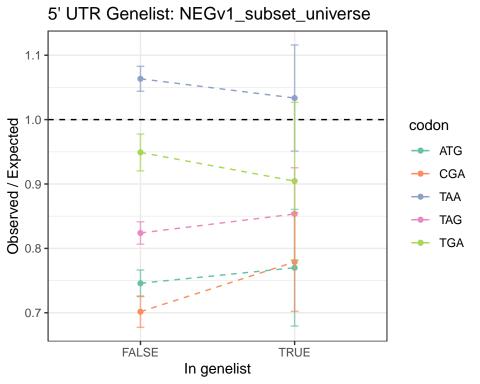


## 5' UTR Genelist: kinases

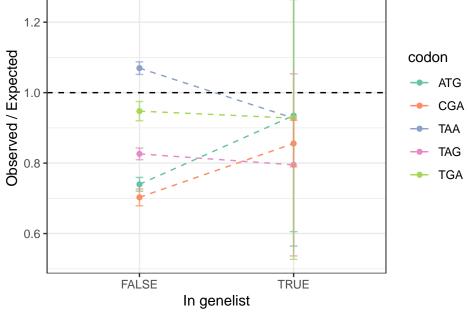


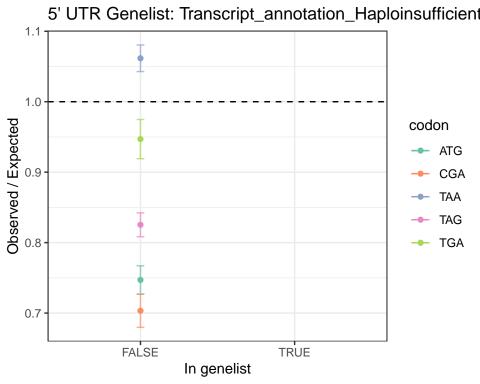






## 5' UTR Genelist: olfactory\_receptors codon **ATG CGA** TAA TAG **TGA**





## 5' UTR Genelist: universe 1.2 codon Observed / Expected 1.0 **ATG CGA** TAA TAG **TGA** 0.6 FALSE TRUE In genelist

## 5' UTR Genelist: x-linked\_clinvar 1.5 -Observed / Expected codon **ATG CGA** TAA TAG **TGA** TRUE FALSE In genelist