

06/15/2020 Four Select Genes

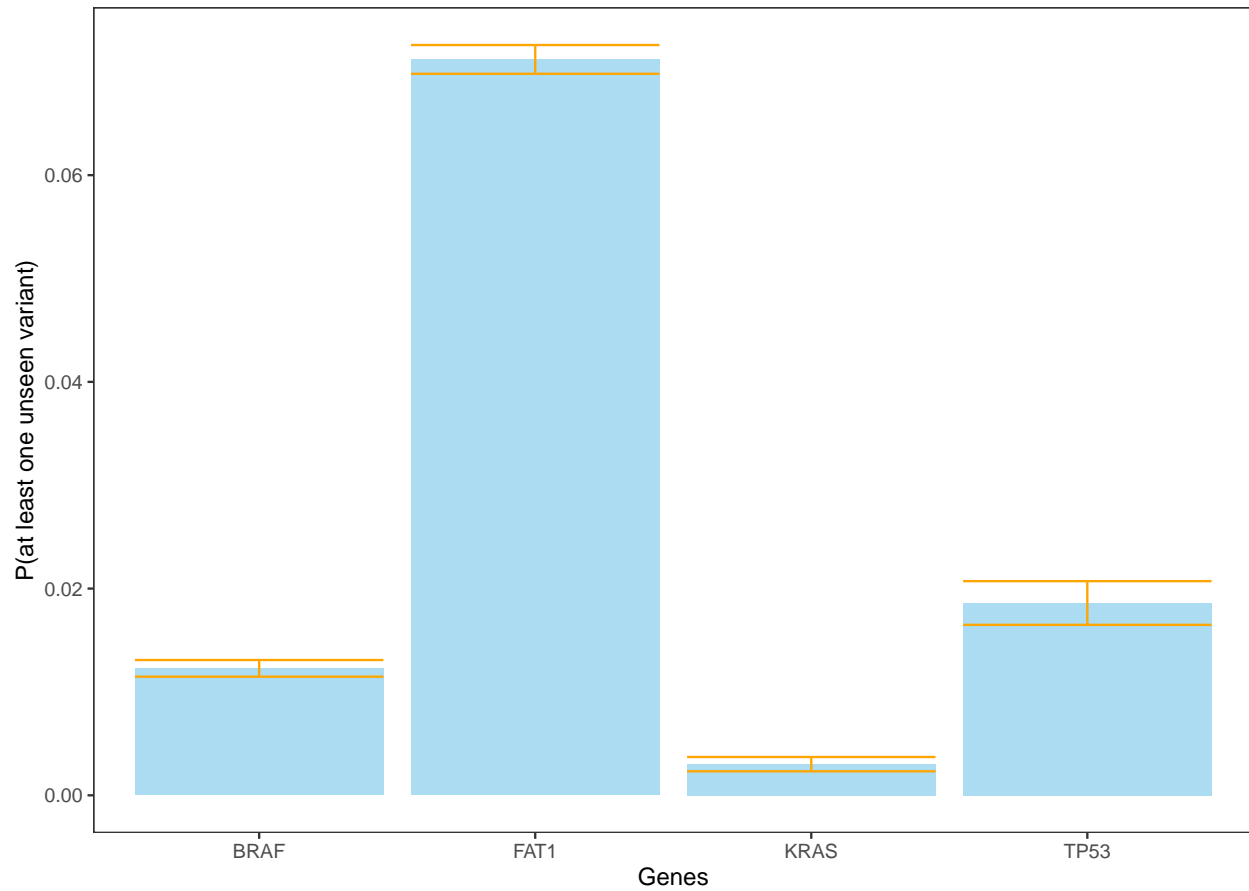
Ethan Ashby

6/13/2020

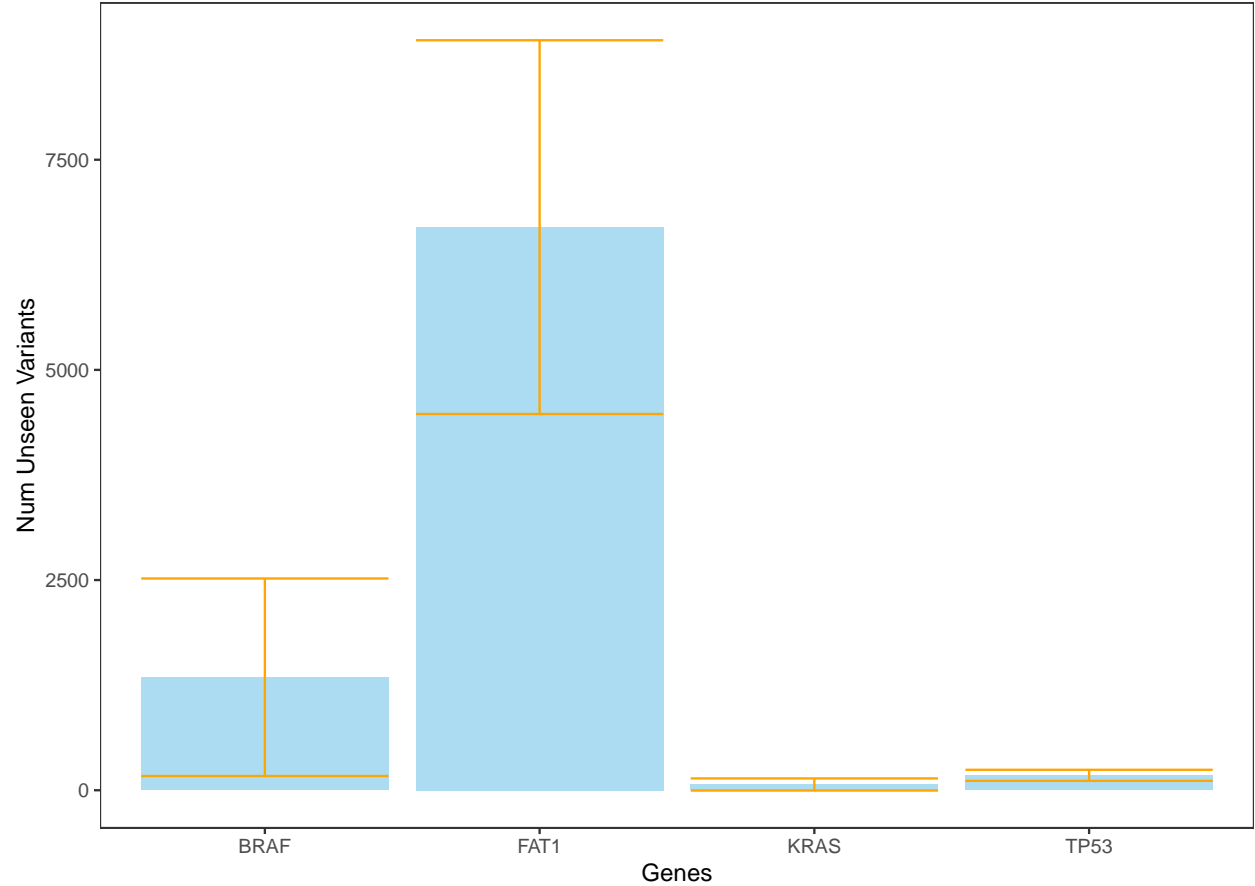
Overview

Implement suite of varprobs functions on four GOI: KRAS, TP53, BRAF, FAT1.

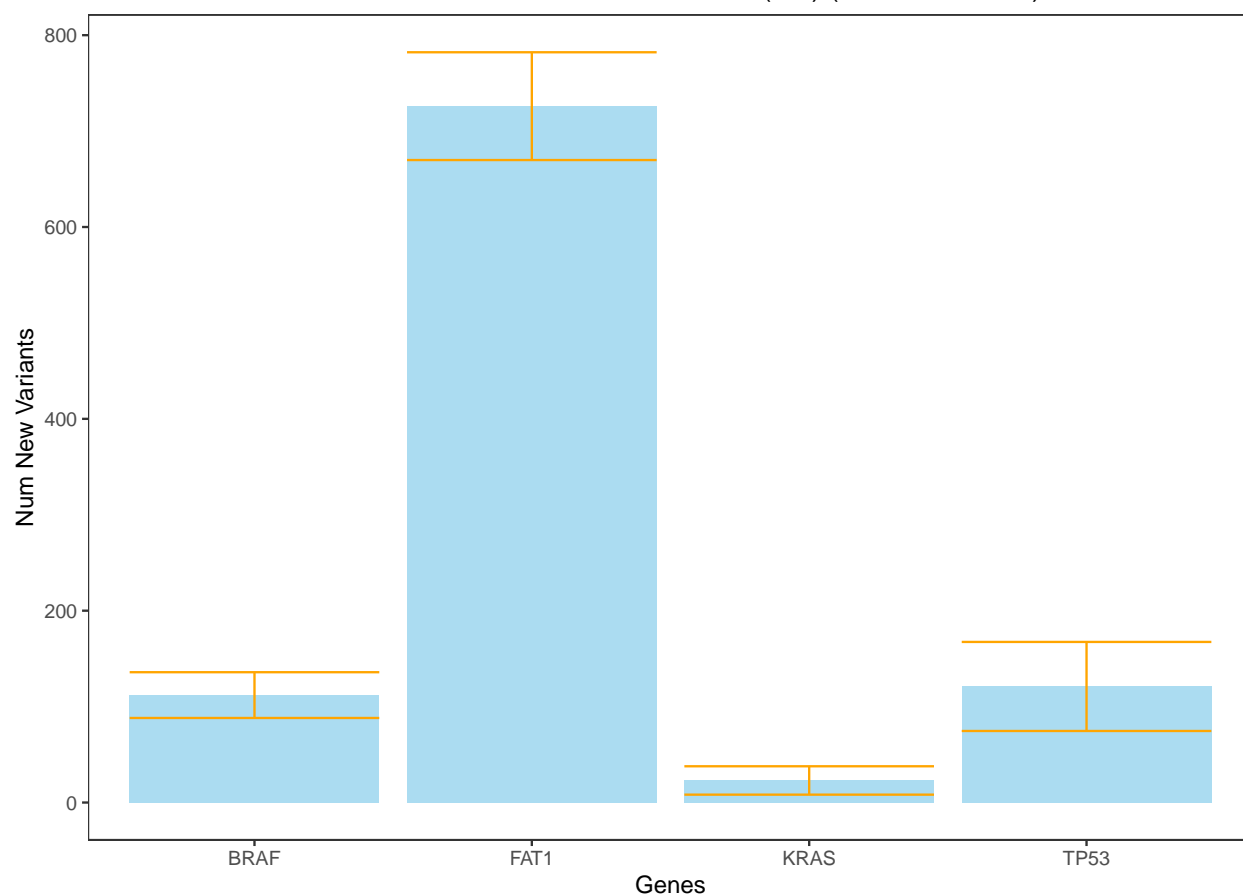
Good-Turing Estimates (95% Normal Bootstrap CI)



Chao Estimates of Total Number of Unseen Variants (95% Normal CI)



Good-Toulmin Estimates of New Variants Detections (t=1) (95% Normal CI)



	Prop Singleton	Chao est	SE Chao	Good-Toulmin est t=1	SE Good-Toulmin t=1	atleast_1new	bias Good-Turing	SE Good-Turing
KRAS	0.0386534	68.63618	36.73536	23	7.549834	0.0030122	2.90e-05	0.0003531
TP53	0.0576636	177.35893	33.59886	121	23.685439	0.0186064	-4.73e-05	0.0011088
FAT1	0.8267974	6697.96435	1134.21686	726	28.670542	0.0711996	-2.53e-05	0.0007039
BRAF	0.1545012	1343.95252	599.38897	112	12.165525	0.0122828	-5.30e-06	0.0004077