[ExtraTreesClassifier] Hypergeometric test: Collapsing analysis vs mantis-ml predictions
v-AURORA-CUMC-all_dom_ultrarare_OO vs shuffle p-value:4.336704073879618e-212

>> Focusing on significant area only:

v-AURORA-CUMC-all_dom_ultrarare_OO -- area: 3.01
i-all_AURORA_dom_rare_syn -- area: 0.0
i-all_AURORA_dom_rare_missense -- area: 0.0
v-AURORA-CUMC-all_dom_rare_syn -- area: 97.29
shuffle -- area: 0.0
> primary / synonymous ratio: 0.03
> primary / shuffle ratio: NA

>> Entire area:

v-AURORA-CUMC-all_dom_ultrarare_OO -- area: 458.82
i-all_AURORA_dom_rare_syn -- area: 235.25
i-all_AURORA_dom_rare_missense -- area: 340.07
v-AURORA-CUMC-all_dom_rare_syn -- area: 568.58
shuffle -- area: 213.8
> primary / synonymous ratio: 0.81
> primary / shuffle ratio: 2.15

Legend:
- - - p-val: 0.05
— v-AURORA-CUMC-all_dom_ultrarare_OO
— i-all_AURORA_dom_rare_syn
— i-all_AURORA_dom_rare_missense
— v-AURORA-CUMC-all_dom_rare_syn
— shuffle

Y-axis: Phred score from hypergeometric test (significance increasing in positive direction)
X-axis: Top 5.0% mantis-ml predicted genes