[XGBoost] Hypergeometric test: Collapsing analysis vs mantis-ml predictions
v-AURORA-CUMC-all_dom_ultrarare_OO vs shuffle p-value:0.2513086013494465

>> Focusing on significant area only:

v-AURORA-CUMC-all_dom_ultrarare_OO -- area: 18.72
i-all_AURORA_dom_rare_syn -- area: 2.71
i-all_AURORA_dom_rare_missense -- area: 0.0
v-AURORA-CUMC-all_dom_rare_syn -- area: 0.0
shuffle -- area: 0.0
> primary / synonymous ratio: NA
> primary / shuffle ratio: NA

>> Entire area:

v-AURORA-CUMC-all_dom_ultrarare_OO -- area: 352.36
i-all_AURORA_dom_rare_syn -- area: 246.78
i-all_AURORA_dom_rare_missense -- area: 117.76
v-AURORA-CUMC-all_dom_rare_syn -- area: 83.81
shuffle -- area: 2.02
> primary / synonymous ratio: 4.2
> primary / shuffle ratio: 174.44

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