[XGBoost] Hypergeometric test: Collapsing analysis vs mantis-ml predictions
v-AURORA-CUMC-all_dom_ultrarare_OO vs shuffle p-value:9.160094536616502e-12

>> Focusing on significant area only:

v-AURORA-CUMC-all_dom_ultrarare_OO -- area:3.78
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: 0.0
shuffle -- area: 0.0
> primary / synonymous ratio: NA
> primary / shuffle ratio: NA

>> Entire area:

v-AURORA-CUMC-all_dom_ultrarare_OO -- area:100.43
i-all_AURORA_dom_rare_syn -- area: 0.29
i-all_AURORA_dom_rare_missense -- area: 0.1
v-AURORA-CUMC-all_dom_rare_syn -- area: 0.17
shuffle -- area: 0.0
> primary / synonymous ratio: 590.76
> primary / shuffle ratio: NA

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