[ExtraTreesClassifier] Hypergeometric test: Collapsing analysis vs mantis-ml predictions
primary vs shuffle p-value:1.3916055287397722e-153

Legend:
- p-val: 0.05
- primary
- synonymous
- common
- shuffle

Y-axis: Phred score from hypergeometric test (significance increasing in positive direction)

X-axis: Top 5.0% mantis-ml predicted genes

>> Focusing on significant area only:
primary -- area: 18666.44
synonymous -- area: 20538.55
common -- area: 7206.81
shuffle -- area: 809.54
> primary / synonymous ratio: 0.91
> primary / shuffle ratio: 23.06

>> Entire area
primary -- area: 29433.81
synonymous -- area: 31565.69
common -- area: 18463.13
shuffle -- area: 8508.34
> primary / synonymous ratio: 0.93
> primary / shuffle ratio: 3.46