sc.250425.K562.Wang.ignore_TPM (9686 pairs \$2G (Multiome) 1.00 scE2G (ATAC) ARC-E2G score Kendall correlation 0.75 Precision Signac (p-value) 0.50 FigR (p-value) 0.25 Distance to TSS 0.00 Closest TSS 0.00 0.25 0.50 0.75 1.00

Recall (n=461)

scE2G (Multiome, ignore_TPM) ABC (A=scATAC, C=power law) STARE (gABC, power law) SnapATAC (z-score) Cicero (co-accessibility) SCENT (bootstrap p-value, -log10, signed) SCENIC+ (importance) DIRECTNET (importance) ArchR (Pearson correlation)

Closest gene

Within 100kh of TSS