Transcription note: This page is a large multi-block presence/absence matrix (ChIP-seq targets × cell lines). The column headers (transcription factors / constructs) and row labels (cell lines) are reproduced below. Individual "X" cell markings across the ~600 densely packed columns cannot be aligned with certainty at this resolution.

Cell-line row labels (all four blocks): A549, GM12878, HeLa-S3, HepG2, K562, MCF-7

Block 1 column headers:
ARID3A, ARNT, ATF1, ATF2, ATF3, BACH1, BATF, BCL11A, BCL3, BCLAF1, BCOR, BDP1, BHLHE40, BMI1, BRCA1, BRF1, BRF2, C11orf30, C8FB, C8X1, C8X3, C8X5, CCNT2, CDC5L, CEBPB, CEBPD, CEBPZ, CHAMP1, CHD1, CHD2, COPS2, CREB3L1, CREM, CTBP1, CTBP2, CTCF, CTCFL, CUX1, DDX20, DEK, DPF2, E2F1, E2F4, E2F6, EBF1, EED, eGFP-ADNP, eGFP-AEBP2, eGFP-ATF1, eGFP-ATF2, eGFP-ATF3, eGFP-BACH1, eGFP-BCL11B, eGFP-CEBPB, eGFP-CEBPG, eGFP-CREB3, eGFP-CTCF, eGFP-CUX1, eGFP-DDX20, eGFP-DIDO1, eGFP-E2F4, eGFP-E2F5, eGFP-EGR2, eGFP-ELF1, eGFP-ELK1, eGFP-ETS2, eGFP-FTV1, eGFP-FEZF1, eGFP-FOS, eGFP-FOSL1, eGFP-FOSL2, eGFP-FOXJ2, eGFP-GABPA, eGFP-GATA2, eGFP-GFI1B, eGFP-GLI4, eGFP-GLIS1, eGFP-GLIS2, eGFP-GT2F2A2, eGFP-GT2F2F2, eGFP-HDAC8, nGFP-HINFP, eGFP-ID3, eGFP-ILK, eGFP-INSM2, eGFP-IRF1, eGFP-IRF9, eGFP-JUNB, eGFP-JUND, eGFP-KLF1, eGFP-KLF13, eGFP-KLF17, eGFP-KLF4, eGFP-KLF7, eGFP-KLF8, eGFP-KLF9, eGFP-MAFG, eGFP-MAZ, eGFP-MEF2D, eGFP-MYNN

Block 2 column headers:
eGFP-NFE2, eGFP-NFE2L1, eGFP-NR2C2, eGFP-NR4A1, eGFP-OSR2, eGFP-OVOL3, eGFP-PATZ1, eGFP-PBX2, eGFP-POLR2H, eGFP-PRDM1, eGFP-PRDM10, eGFP-PRDM12, eGFP-PTRF, eGFP-PTTG1, eGFP-PYGO2, eGFP-RELA, eGFP-REST, eGFP-SP2, eGFP-SP3, eGFP-SP7, eGFP-TAF7, eGFP-TEAD2, eGFP-TFDP1, eGFP-TSC22D4, eGFP-TSHZ1, eGFP-USF2, eGFP-WT1, eGFP-ZBTB1, eGFP-ZBTB11, eGFP-ZBTB49, eGFP-ZBTB7A, eGFP-ZBTB8A, eGFP-ZEB1, eGFP-ZEB2, eGFP-ZFP3, eGFP-ZFP41, eGFP-ZFP64, eGFP-ZFP69B, eGFP-ZFX, eGFP-ZKSCAN8, eGFP-ZNF13B, eGFP-ZNF140, eGFP-ZNF146, eGFP-ZNF16, eGFP-ZNF175, eGFP-ZNF18, eGFP-ZNF197, eGFP-ZNF202, eGFP-ZNF239, eGFP-ZNF24, eGFP-ZNF280D, eGFP-ZNF292, eGFP-ZNF324, eGFP-ZNF341, eGFP-ZNF354C, eGFP-ZNF391, eGFP-ZNF423, eGFP-ZNF48, eGFP-ZNF488, eGFP-ZNF512, eGFP-ZNF547, eGFP-ZNF558, eGFP-ZNF580, eGFP-ZNF584, eGFP-ZNF585B, eGFP-ZNF589, eGFP-ZNF600, eGFP-ZNF610, eGFP-ZNF623, eGFP-ZNF639, eGFP-ZNF644, eGFP-ZNF654, eGFP-ZNF664, eGFP-ZNF680, eGFP-ZNF692, eGFP-ZNF697, eGFP-ZNF707, eGFP-ZNF740, eGFP-ZNF76, eGFP-ZNF766, eGFP-ZNF781, eGFP-ZNF8, eGFP-ZNF83, eGFP-ZNF837, eGFP-ZSCAN16, eGFP-ZSCAN23, eGFP-ZSCAN5A, eGFP-ZXDB, EGR1, ELF1, ELK4, EP300, ESRRA, ETS1, ETV4, ETV6, EZH2, FLAG-ATF1, FLAG-ATF4

Block 3 column headers:
FLAG-CREB1, FLAG-DNMT3B, FLAG-HBP1, FLAG-HHEX, FLAG-HLF, FLAG-MBD1, FLAG-PBX2, FLAG-RAD21, FLAG-SSRP1, FLAG-TGIF2, FOS, FOSL1, FOSL2, FOXA1, FOXA2, FOXK2, FOXM1, FOXP2, GABPA, GATA1, GATA2, GATA3, GATA4, GTF2B, GTF2F1, GTF3C2, HA-E2F1, HCFC1, HDAC1, HDAC2, HDAC6, HDGF, HES1, HMBOX1, HMGN3, HNF1A, HNF4A, HNF4G, HSF1, IKZF1, IRF2, IRF3, IRF4, JUN, JUNB, JUND, KAT2B, KAT8, KDM1A, KDM4B, KDM5A, KDM5B, KLF16, L3MBTL2, LEF1, MAFF, MAFK, MAX, MAZ, MBD2, MBD4, MCM3, MCM5, MCM7, MEF2A, MEF2C, MIER1, MITF, MLLT1, MNT, MTA1, MTA2, MTA3, MXI1, MYB, MYBL2, MYC, MYNN, NANOG, NBN, NCOA1, NFATC1, NFE2, NFE2L2, NFIC, NFRKB, NFYA, NFYB, NONO, NR2C2, NR2F2, NR2F6, NRF1, PAX5, PBX3, PHF8, PKNOX1, PML, POU2F2A

Block 4 column headers:
POLR2AphosphoS2, POLR2AphosphoS5, POLR3A, POLR3G, POU2F2, POU5F1, PRDM1, RAD21, RAD51, RBBP5, RCOR4, REST, RFX1, RFX5, RNF2, RUNX1, RUNX3, RXRA, SAP30, SETDB1, SIN3A, SIN3B, SIRT6, SIX4, SIX5, SMAD2, SMAD5, SMARCA4, SMARCA5, SMARCB1, SMARCC1, SMARCC2, SMARCE1, SMC3, SOX13, SP1, SP2, SP4, SPI1, SREBF1, SREBF2, SRF, STAT1, STAT3, STAT5A, SUPT20H, SUPT5H, SUZ12, TAF1, TAF7, TAL1, TARDBF, TBL1XR1, TBP, TBX21, TCF12, TCF3, TCF7, TCF7L2, TEAD4, TFAP4, TFDP1, THAP1, TRIM22, TRIM24, TRIM28, UBTF, USF1, USF2, WRNIP1, YBX1, YBX3, YY1, ZBED1, ZBTB11, ZBTB33, ZBTB40, ZBTB7A, ZEB1, ZEB2, ZHX1, ZHX2, ZKSCAN1, ZMIZ1, ZMYM3, ZNF143, ZNF207, ZNF217, ZNF24, ZNF263, ZNF274, ZNF318, ZNF384, ZNF592, ZNF687, ZZZ3
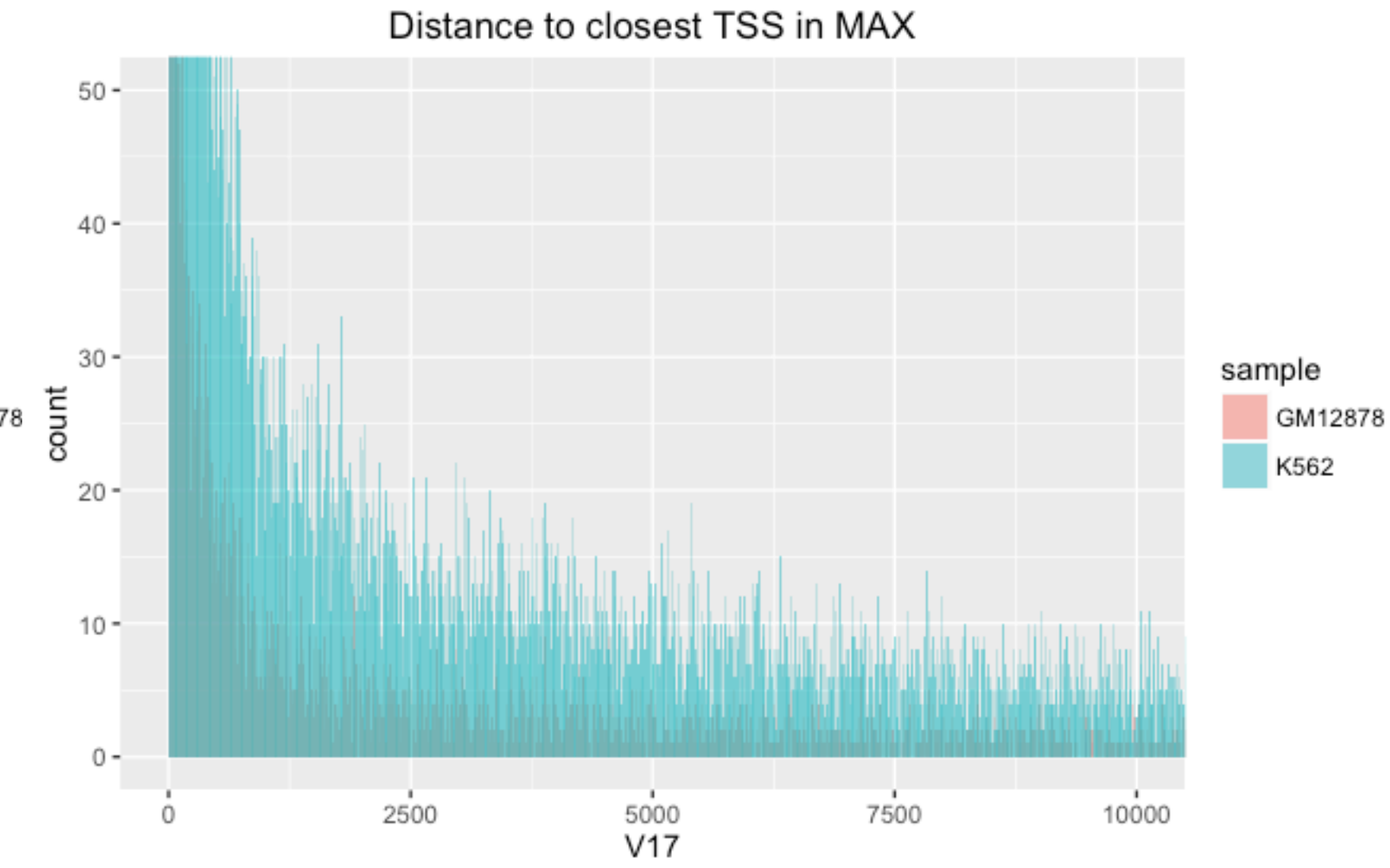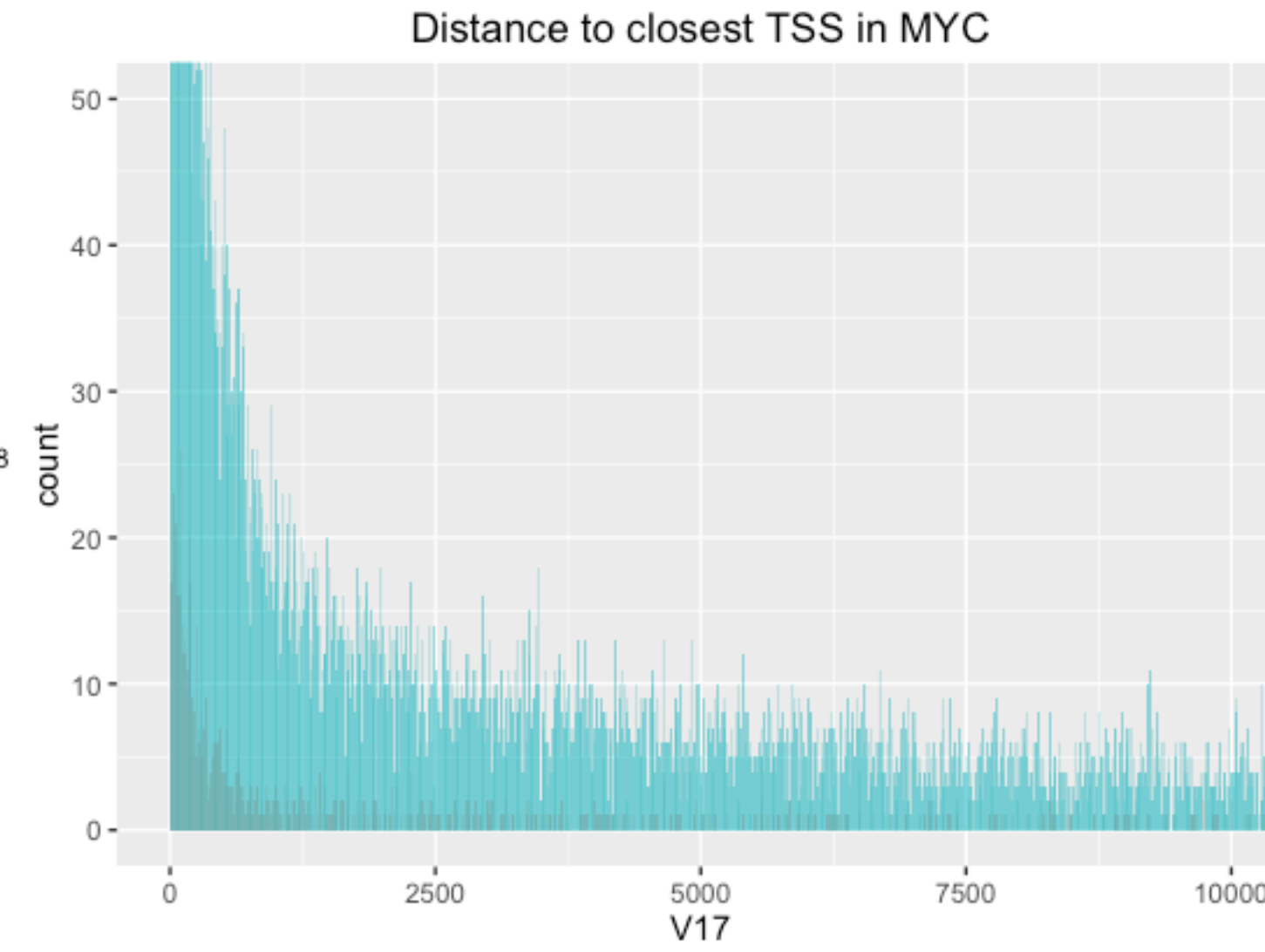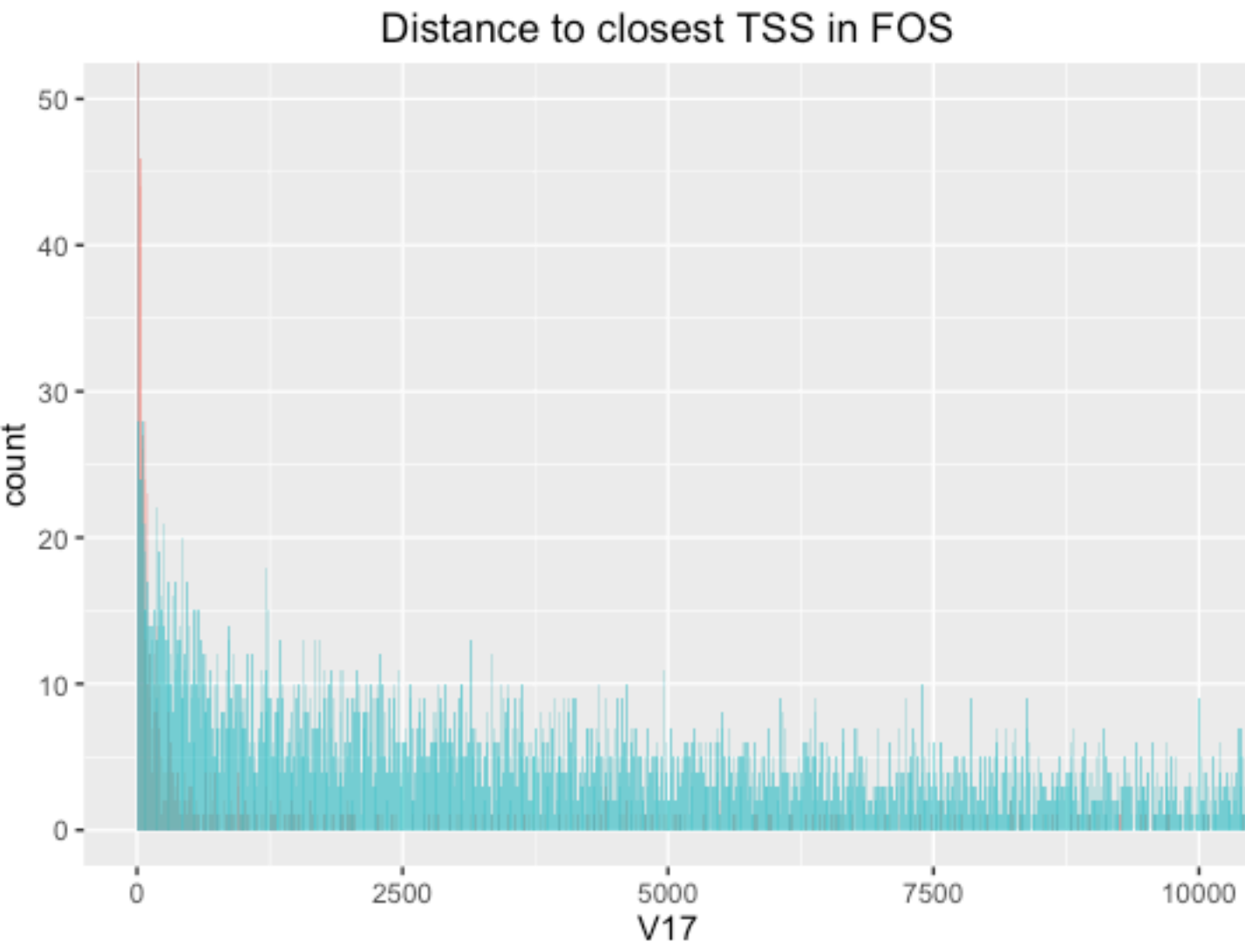
1

- **For common 67 TFs between K562 and GM12878, 1,857,023 peaks identified**

- **In each TF peaks, 2.5 kb within TSS mapped to "proximal", otherwise "distal"**

- **Overall, ~58% were proximal (compare to ENCODE-Net: ~40%)**

2
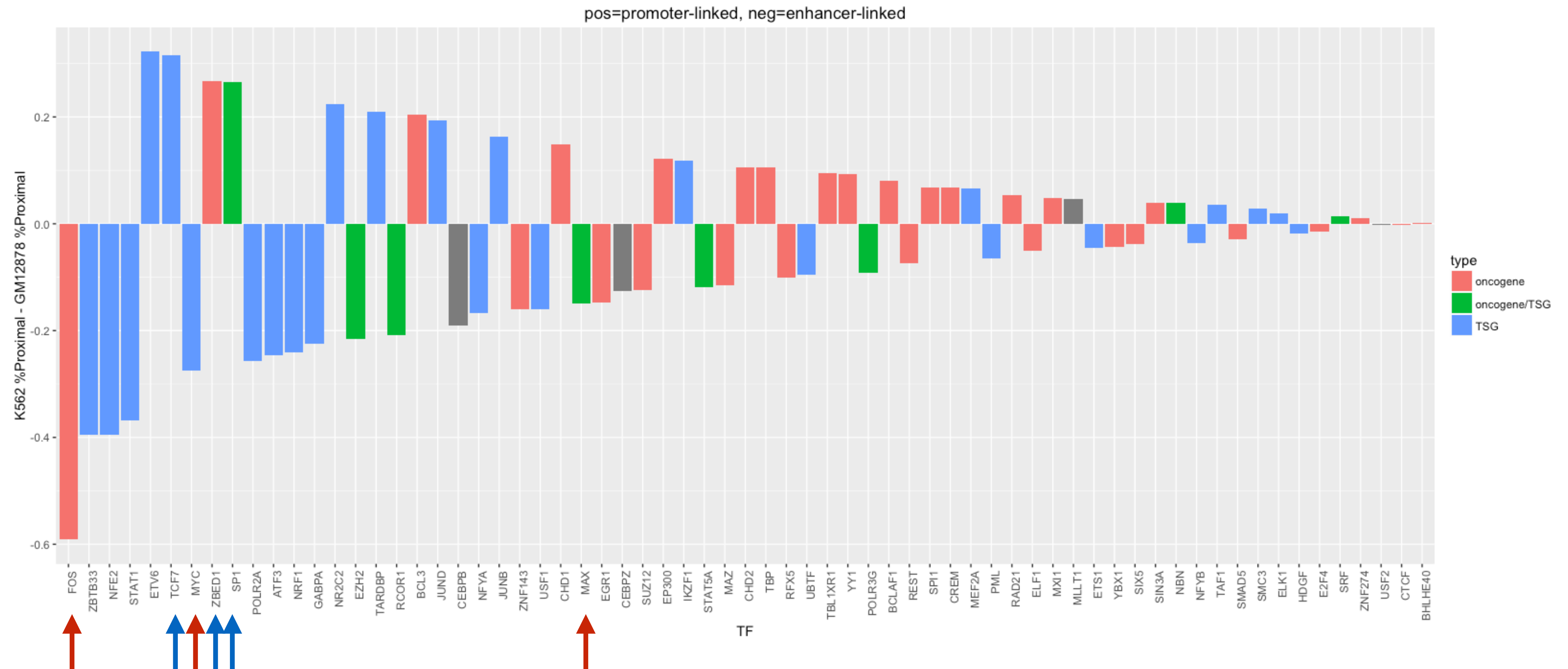
elevated enhancer activity in K562

Distance to closest TSS in FOS

Distance to closest TSS in MYC

Distance to closest TSS in MAX

Distance to closest TSS in ZBED1

Distance to closest TSS in TCF7

Distance to closest TSS in SP1
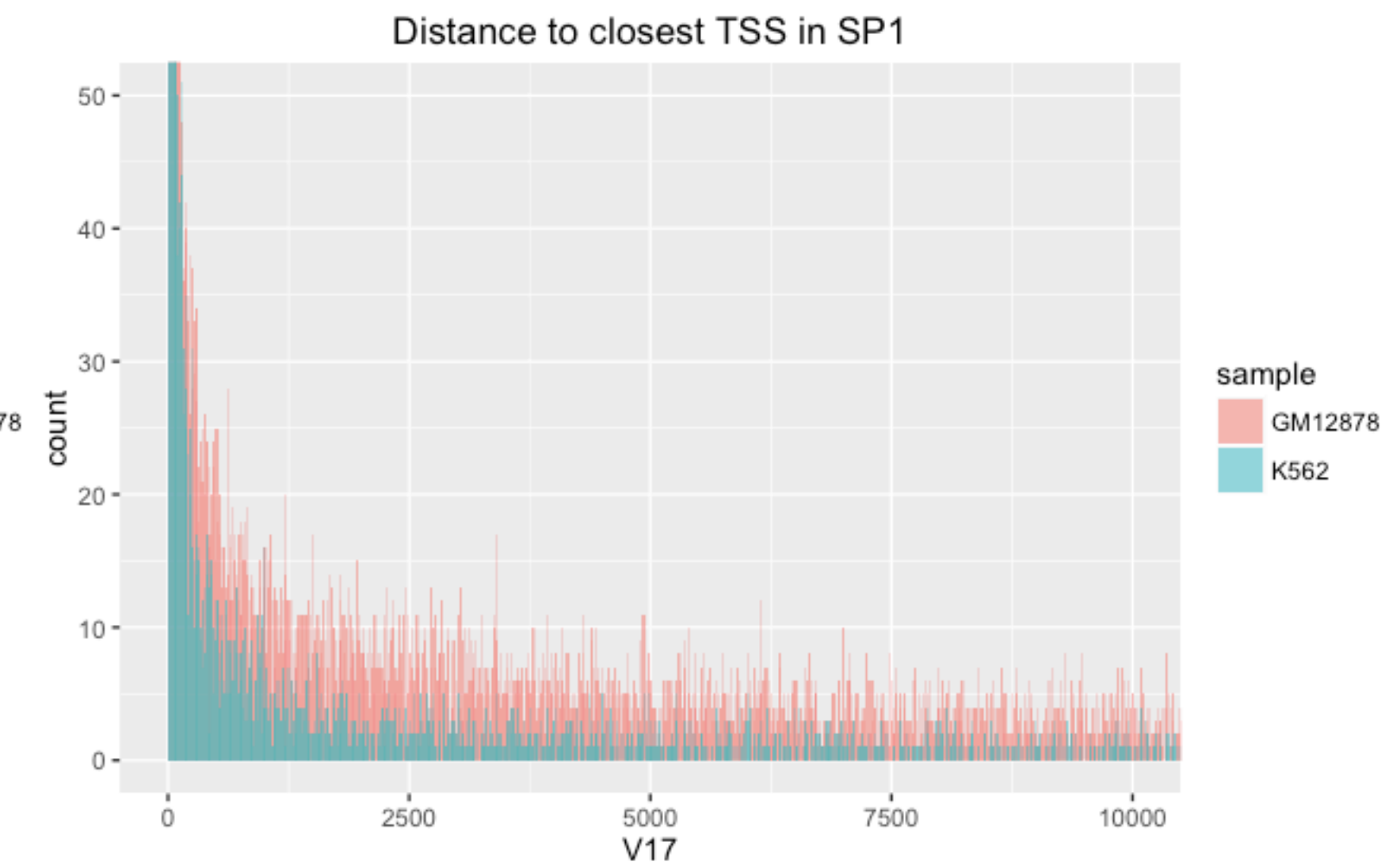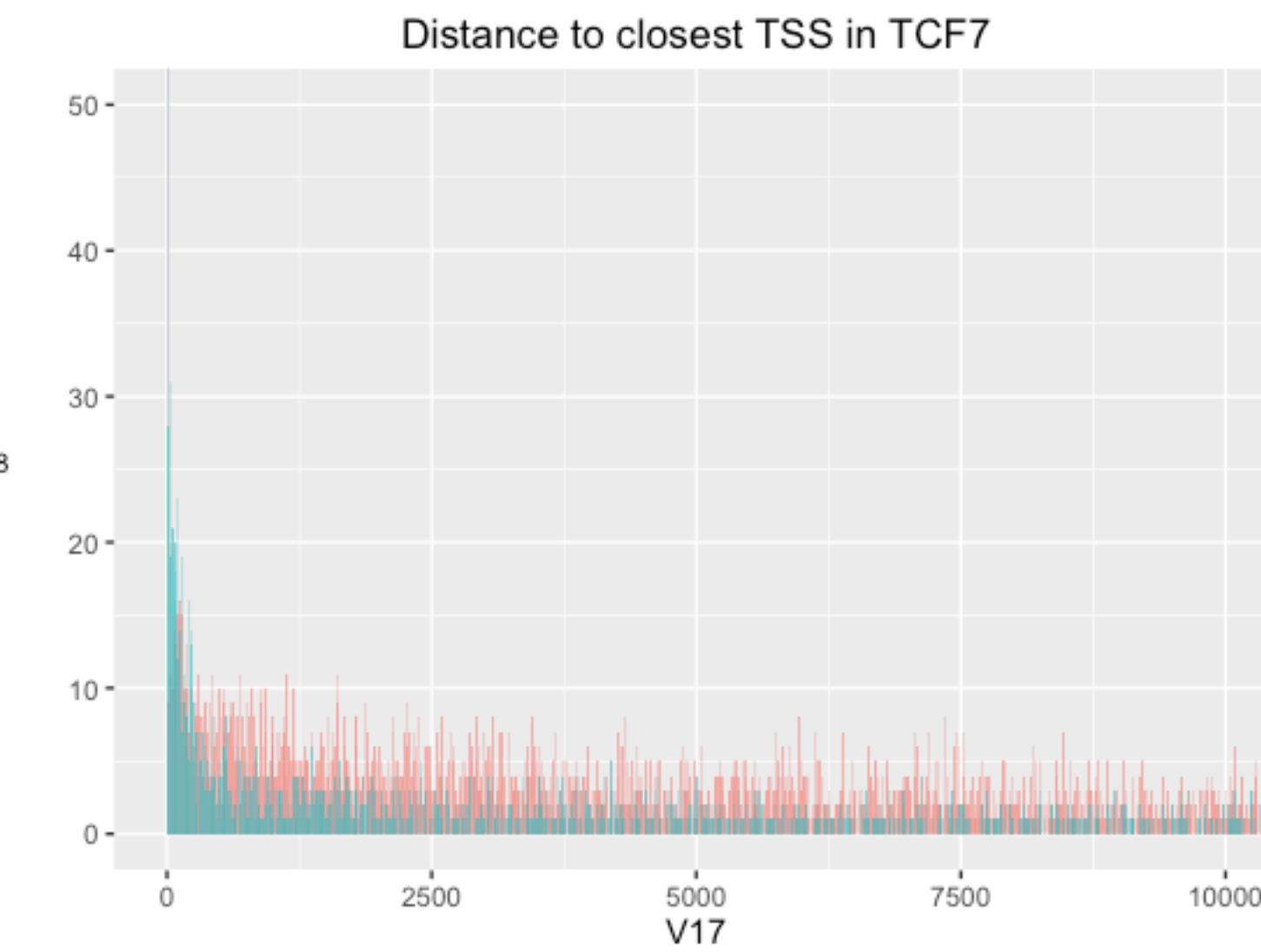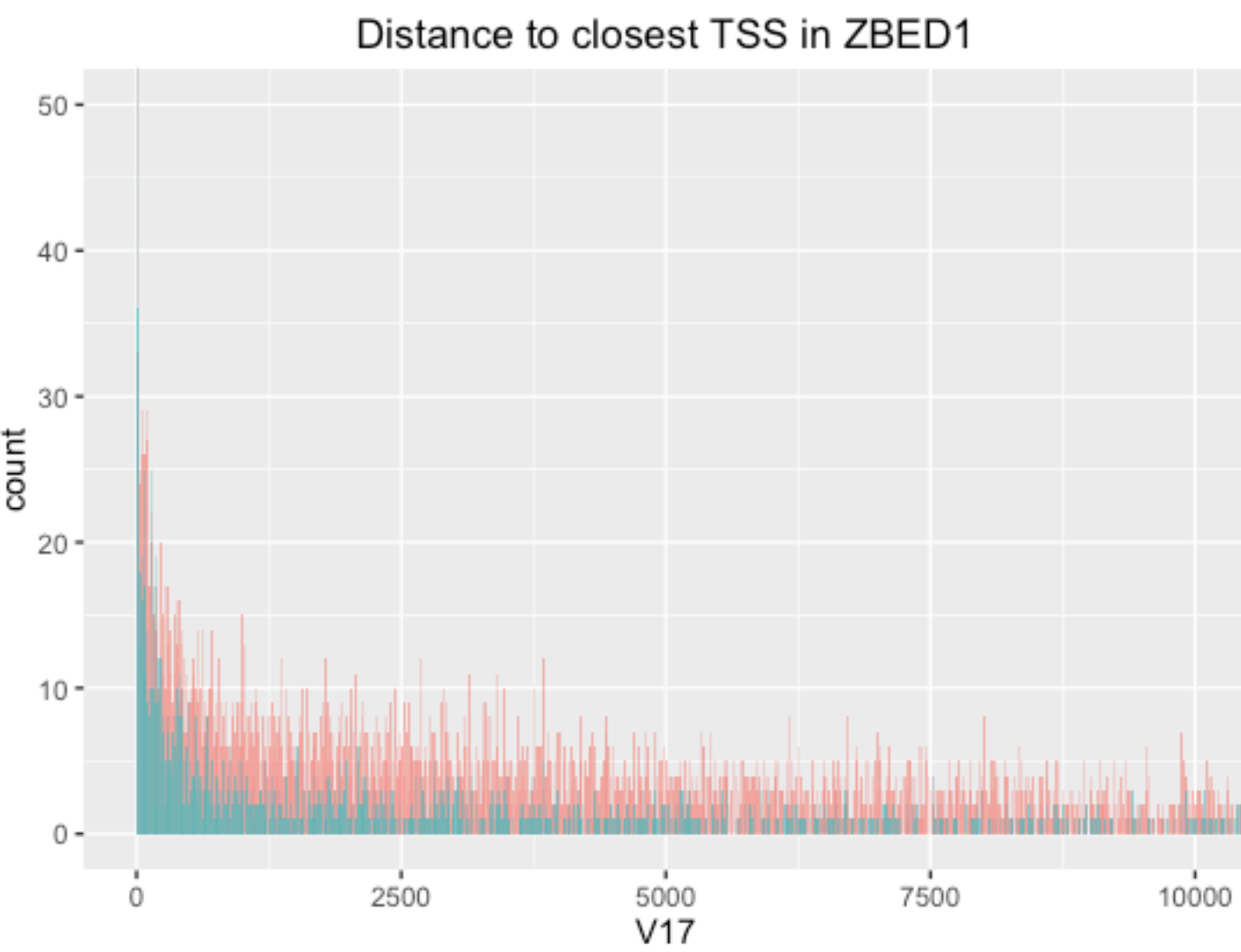
elevated promoter activity in K562

269,855 K562_AH_ES (20%)
x
45,802 K562_ANS_MF (20%)
=
10,577 potential enhancers

167,221 GM12878_AH_ES
x
45,203 GM12878_ANS_MF (20%)
=
9,978 potential enhancers