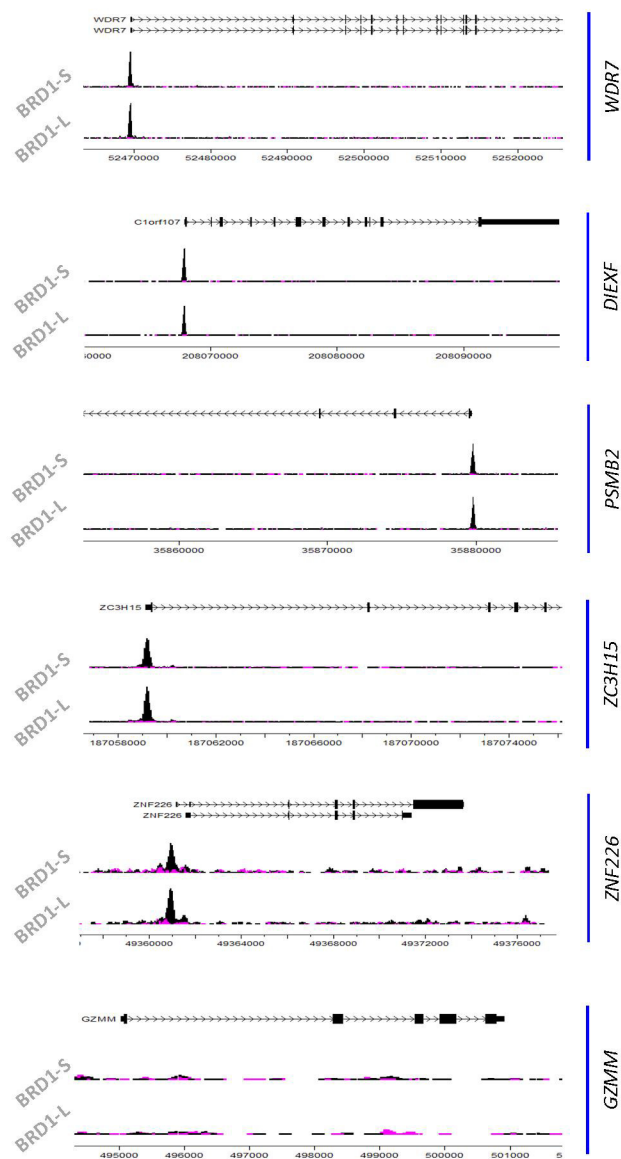
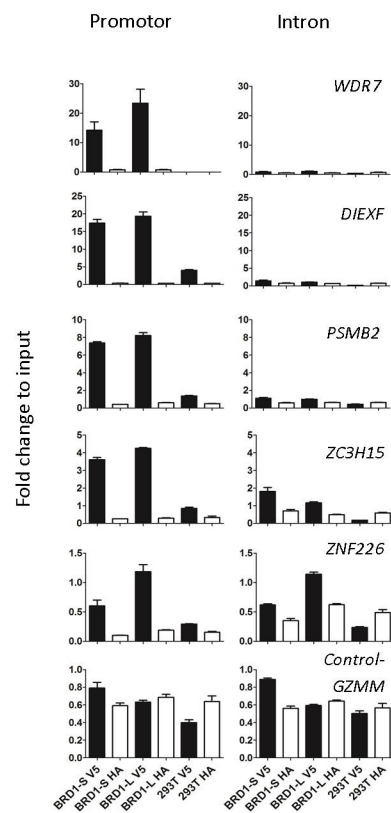


A



B



Verification of five selected ChIP-seq promoter targets by ChIP-QPCR. From the 251 common promoter target genes (PTGs) of BRD1-S and BRD1-L, we selected 5 for validation with ChIP-QPCR. (A) The promoter loci at the WD repeat domain 7 (*WDR7*), digestive organ expansion factor homolog (*C1ORF107* or *DIEXF*), proteasome subunit β type, 2 (*PSMB2*), *ZC3H15*, and zinc finger protein 226 (*ZNF226*) showed BRD1-S and BRD1-L binding, while the promoter loci of the lymphocyte expressed gene granzyme M (*GZMM*) showed no significant binding of the BRD1 isoforms and was subsequently selected as a negative control. The BRD1-S or BRD1-L binding is shown in black whereas the control ChIP-seq (IP with anti-HA antibody) is shown in pink. (B) Primers were designed to amplify a 80-150bp sequence in the promoter region or the intron of all 6 genes (for primer sequences see Supplemental Table 2). ChIP was performed with either anti-V5 antibody (V5) conjugated beads or anti-HA (HA) conjugated beads using extracts from BRD1-S, BRD1-L or HEK293T cells (for further details see the materials and methods). ChIP-QPCR showed higher enrichment of BRD1-S and BRD1-L at the promoter loci of *WDR7*, *DIEXF*, *PSMB2*, *ZC3H15*, and *ZNF226* compared to controls. Also ChIP-QPCR showed less BRD1-S and BRD1-L binding at introns of *WDR7*, *DIEXF*, *PSMB2*, *ZC3H15*, and *ZNF226* while ChIP-QPCR showed lower and approximately equal BRD1-S and BRD1-L binding at the *GZMM* promoter and intron.