

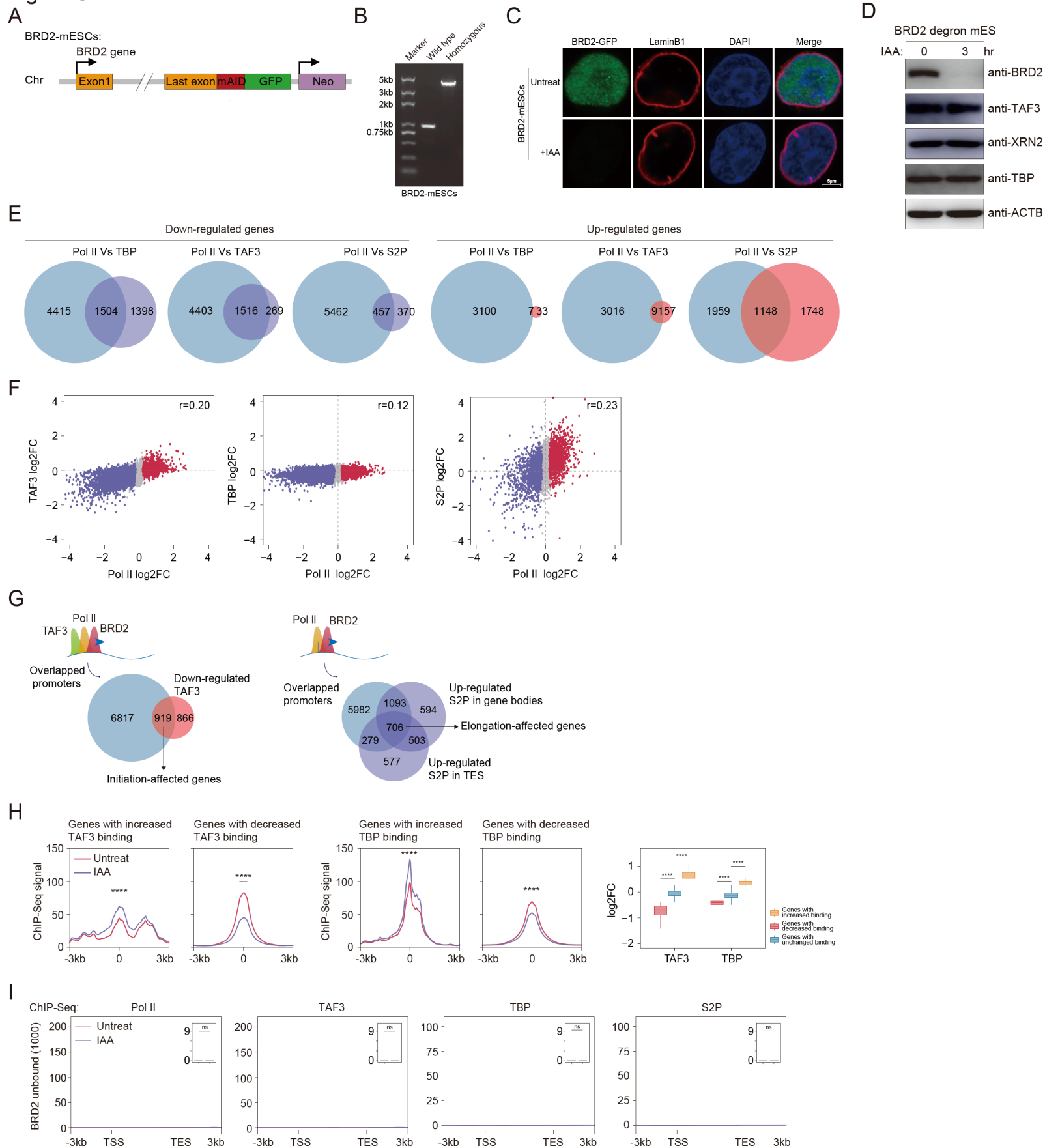
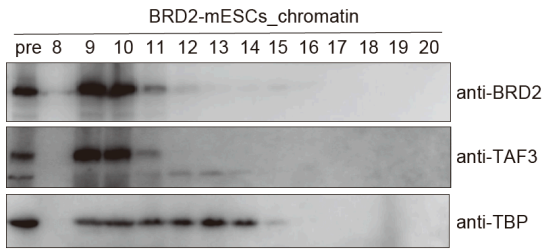
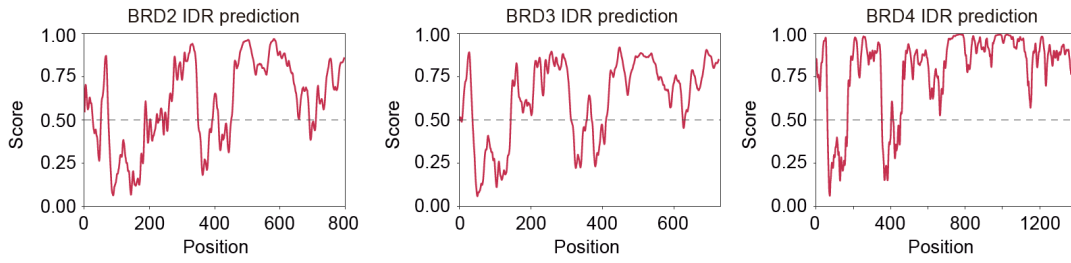
Figure S1

Figure S2

A



B



C

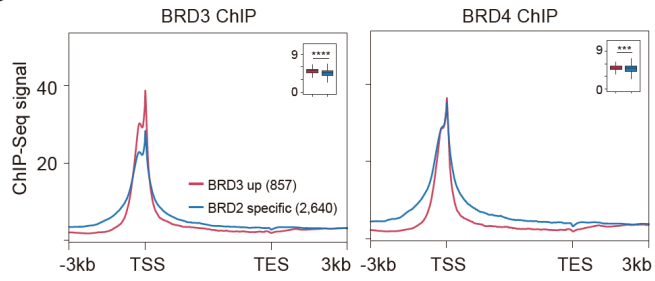
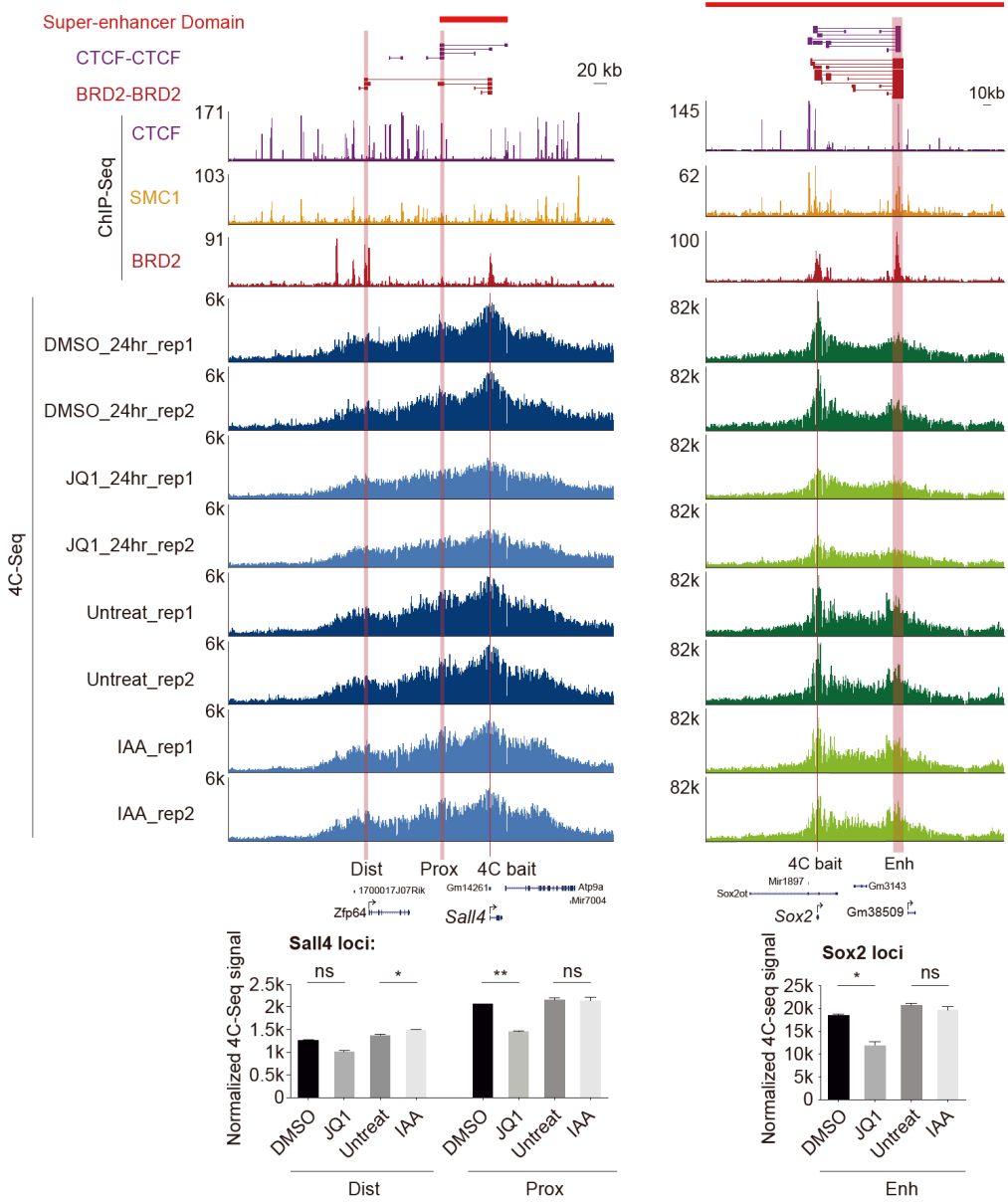


Figure S3

A



B

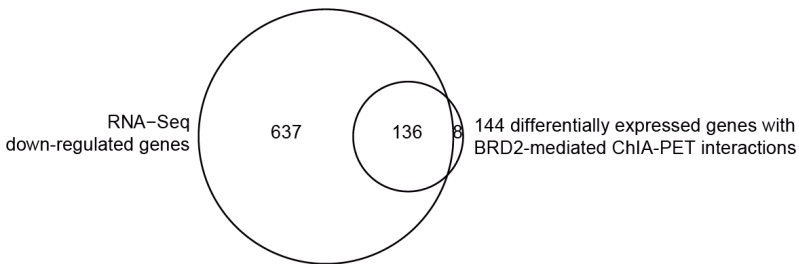
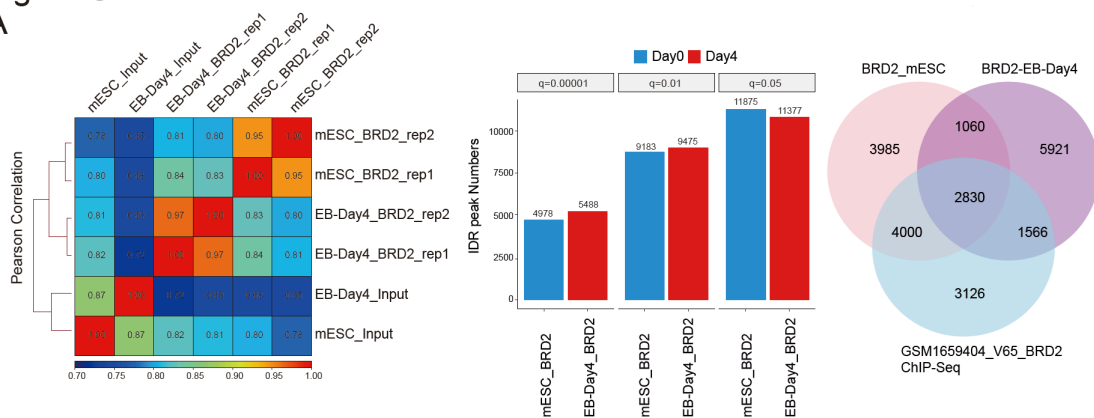
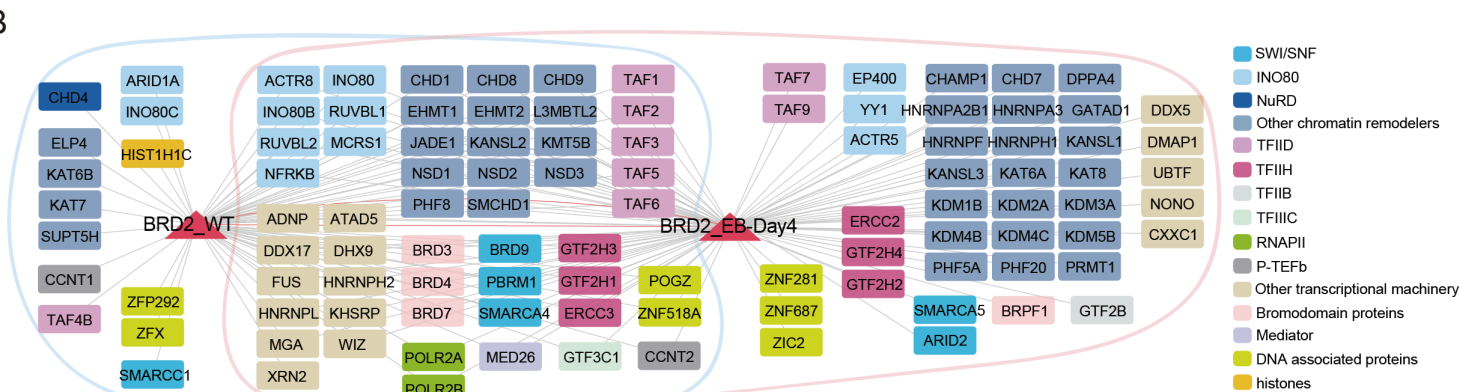


Figure S4

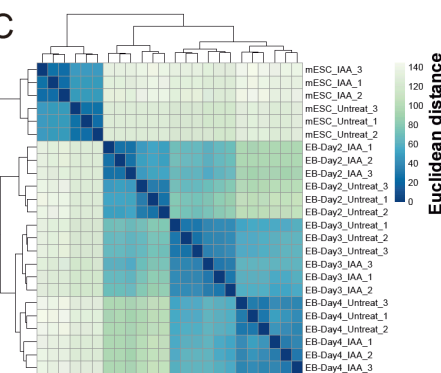
A



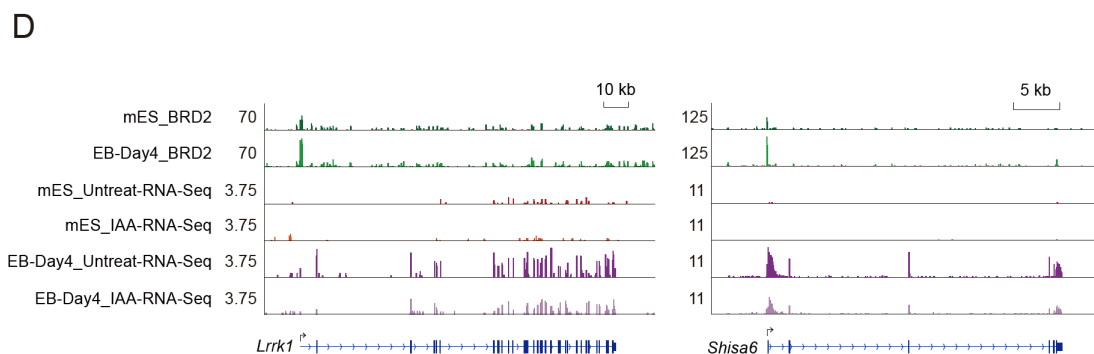
B



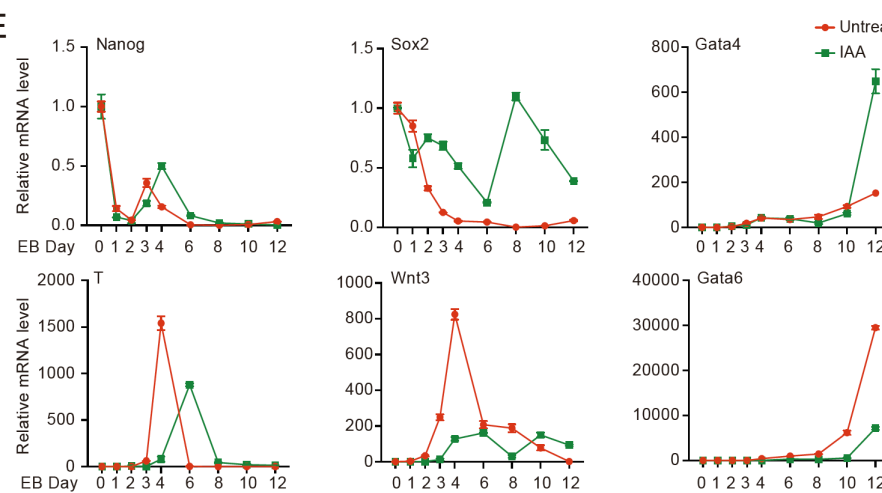
C



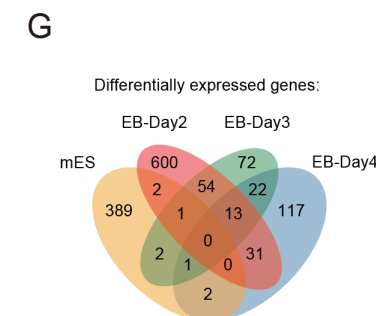
D



E



G



F

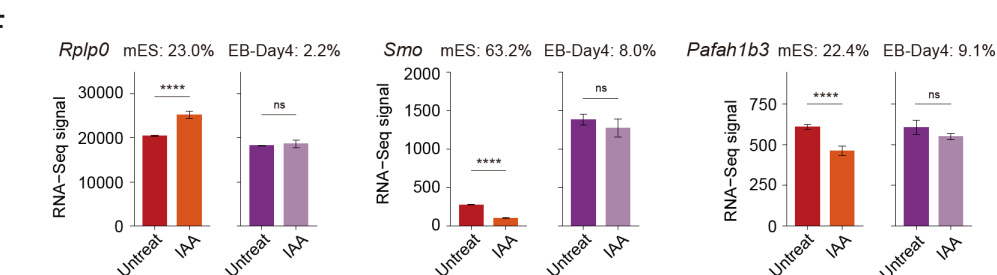
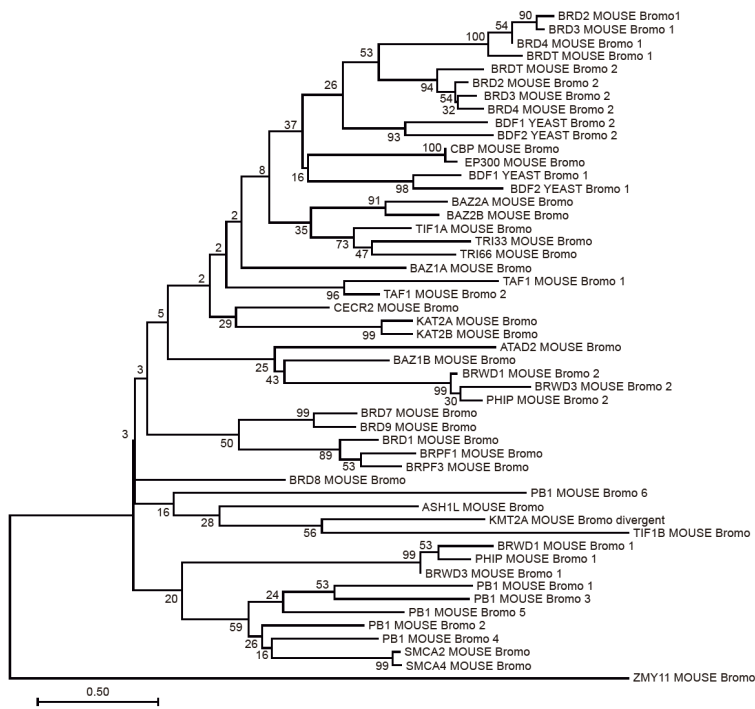


Figure S5

A



B

Bromodomain 1:	
human BRD2	74 RVTNQLQYLHKVVMKALWKHQFAWPFQPVDAVKLGLPDYHKIIKQPMDMGTIKRRLENNYYWAASECMODFNTMFTNCYIYNKPTDDIVLMAQTLEKIFLQKVASMPQEEQ 185
human BRD3	34 RKTNQLQYMQNVVVKTLWKHQFAWPFYQPVDAIKLNLPDYHKIIKQPMDMGTIKRRLENNYYWSASECMODFNTMFTNCYIYNKPTDDIVLMAQALEKIFLQKVAMPQEEV 145
human BRD4	58 RQTNQLQYLLRVVLRKTLWKHQFAWPFQPVDAVKLNLPDYHKIIKQPMDMGTIKRRLENNYYWNAQECIQDFNTMFTNCYIYNKPGDDIVLMAEALEKIFLQKINELPTEET 169
human BRDT	27 RLTNQLQYLQKVVLRDLWKHHSFSPFPQPVDAVKLQLPDYHTIKNPMDLNTIKRRLENNYYAKASECIEDFNTMFTNCYIYNKPGDDIVLMAQALEKIFLQKLSQMPQEEQ 138
mouse Brd2	73 RVTNQLQYLHKVVMKALWKHQFAWPFQPVDAVKLGLPDYHKIIKQPMDMGTIKRRLENNYYWAASECMODFNTMFTNCYIYNKPTDDIVLMAQTLEKIFLQKVASMPQEEQ 184
Chicken Brd2	27 RVTNQLQYLHKVVMKALWKHQFAWPFQPVDAVKLGLPDYHKIIKQPMDMGTIKRRLENNYYWGAASECMODFNTMFTNCYIYNKPTDDIVLMAQTLEKIFLQKVAMPQEEQ 138
Xenopus Brd2	74 RSTNQLQYLHKAIVKSLWKHQFSWPFQPVDAVKLGLPDYHKIIKQPMDMGTIKRRLENNYYWSALECMODFNTMFTNCYIYNKPTDDIVLMAQSLKEMFLQKVAMPQEEQ 185
Drosophila Fs(1)h	34 RNTNQLQYLKIVKVIWKHHSWPFQPVDAVKLNLPDYHKIIKQPMDMGTIKRRLENNYYWSAKETIQDFNTMFTNCYIYNKPGEDVVVMAQTLEKVFLOKIESMPKEEL 145
Bromodomain 2:	
human BRD2	345 KLSEQLKHCNGILKELLSKKHAAAYAWPFYKPVDSALGLHDYHDIIKHPMDLSTVRRKMNDRDYRDAQEFAADVRLMFSNCKYKYNPPDHDVVAMARKLQDVFFFRYAKMPDEE 457
human BRD3	307 KLSEHLRYCDSLREMLSKKHAAAYAWPFYKPVDAEALGLHDYHDIIKHPMDLSTVRRKMDGREYDPAQGFADVRLMFSNCKYKYNPPDHEVVAMARKLQDVFFEMRFKMPDEE 419
human BRD4	349 RVSEQLKCCSGILKEMFAKHAAYAWPFYKPVDEALGLHDYCDIHKHPMDMSTIKSKLEAREYRDAQEFGADVRLMFSNCKYKYNPPDHEVVAMARKLQDVFFEMRFKMPDEE 461
human BRDT	268 KVTEQLRHCSLILKEMLAKKHFSYAWPFYKPVVNALGLHNYDVKVKNPMDLGTIKRKMNDQEKDAYKFAADVRLMFSNCKYKYNPPDHEVVAMARKLQDVFFTHFSKPIIEE 380
mouse Brd2	344 KLSEQLKHCNGILKELLSKKHAAAYAWPFYKPVDSALGLHDYHDIIKHPMDLSTVRRKMNDRDYRDAQEFAADVRLMFSNCKYKYNPPDHDVVAMARKLQDVFFFRYAKMPDEE 456
Chicken Brd2	292 KLSEQLKYCNGILKELLSKKHAAAYAWPFYKPVDSALGLHDYHDIIKHPMDLSTIKRKMNDREYHDAQEFAADVRLMFSNCKYKYNPPDHDVVAMARKLQDVFFFSYAKMPDEE 404
Xenopus Brd2	339 KLSEQLKYCNGILKELLSKKHAAAYAWPFYKPVDSALGLHDYDIIKHPMDMSTIKKMDSREFKDAQEFAAAILMFSNCKYKYNPPDHDVVAMARKLQDVFFFSYAKMPDEE 451
Drosophila Fs(1)h	476 KLSDALKSQNEILKELFSKHSYAWPFYKPVDAEMLGLHDYHDIIKHPMDLGTIKRKMNDREYKSAPEFAADVRLIETNCKYKYNPPDHDVVAMGRKLODVFFEMRYANIPDEE 588
Dimerization domain:	
human BRD2	511 DSEEEAHRLAELQEQLRVHEQLAALSQGPISKPKRREKKEKKEKK 557
human BRD3	454 DSEEEARLRLAELQEQLKAVHEQLAALSQAPVKNPKKREKKEKKEKK 500
human BRD4	502 DSEEEARLRLAELQEQLKAVHEQLAALSQPQONPKKREKKEKKEKK 548
human BRDT	414 DSEDERVKRLAKLQEQLKAVHQLQVLSQVPPFRKLNKREKKEKKEKK 460
mouse Brd2	509 DSEEEAHRLAELQEQLRVHEQLAALSQGPISKPKRREKKEKKEKK 555
Chicken Brd2	460 DSEEEANRLAELQEQLRVHEQLAALSQGPVSKPKRREKKEKKEKK 506
Xenopus Brd2	491 DSEEEANRLAELQEQLRVHEQLAALSQGPISKPKRREKKEKKEKK 537
Drosophila Fs(1)h	648 NSDEERSARLKMLESKLLGLQEEIRKLSSEASAKKAKKKEKKEKK 694