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## S2 Fig.

### A. *Homo sapiens* BZW1

AGGAGACACCGCCGCGAGTTGCCGGTACATCGGGGATTTCTGGCTCTTTCTCTTCGCCTTAAATTCGGGTGTCTTTT  
ATGAATAATCAAAAGCAGCAAAAGCCAACGCTATCAGGCCAGCGTTTTAAACTAGAAAAAGAGATCAAAAAGAGAG  
GTTTGACCCTACTCAGTTTCAAGACTGTATTATTCAAGGCTTAACTGAAACCGGTACTGATTTGGAAGCAGTAGCTA  
AGTTTCTTGATGCTTCTGGAGCAAACTTGATTACCGTCGATATGCAGAAACACTCTTTGACATTCTGGTGGCTGGT  
GGAATGCTGGCCCCAGGTGGTACACTGGCAGATGACATGATGCGTACAGATGTCTGCGTGTGTTGCAGCCCAAGAAGA  
TCTAGAGACCATGCAAGCATTGTCTCAGGTTTTTAACAAGTTAATCAGGCGCTACAAATACCTGGAGAAAGGTTTTG  
AAGATGAAGTAAAAAGCTGCTGCTGTTCTTGAAGGGTTTTTCAGAGTCGGAGAGGAACAAGCTAGCTATGTTGACT  
GGTGTTCTTCTGGCTAATGGAACACTTAATGCATCCATTCTTAATAGCCTTTATAATGAAAATTTGGTTAAAGAAGG  
AGTTTCAGCAGCTTTTGCTGTGAAGCTCTTTAAATCATGGATAAATGAAAAAGATATCAATGCAGTAGCTGCAAGTC  
TTCGGAAGTCAGCATGGATAACAGACTGATGGAACCTTTTCCTGCCAATAAGCAAAGTGTTGAACACTTCACAAAA  
TATTTTACTGAGGCAGGCTTGAAAGAGCTTTCAGAATATGTTTCGGAATCAGCAAACCATCGGAGCTCGTAAGGAGCT  
CCAGAAAGAACTTCAAGAACAGATGTCCCGTGGTGATCCATTTAAGGATATAATTTTATATGTCAAGGAGGAGATGA  
AAAAAACAACATCCCAGAGCCAGTTGTCATCGGAATAGTCTGGTCAAGTGTAATGAGCACTGTGGAATGGAACAAA  
AAAGAGGAGCTTGTAGCAGAGCAAGCCATCAAGCACTTGAAGCAATACAGCCCTCTACTTGCTGCCTTTACTACTCA  
AGGTCAGTCTGAGCTGACTCTGTTACTGAAGATTGAGGAGTATTGCTATGACAACATTCATTTTCATGAAAGCCTTCC  
AGAAAATAGTGGTGCTTTTTTATAAAGCTGAAGTCCTGAGCGAGGAGGCCATTTTGAAGTGGTATAAAGATGCACAT  
GTTGCAAAGGGGAAGAGTGTTTTCTTGAGCAAATGAAAAAGTTGTAGAATGGCTCAAAAATGCTGAAGAAGAATC  
TGAATCTGAAGCTGAAGAAGGTGACTGAATTTTGAAGTACACCCTCAGTAAAGCAAACAGGAGTTGTAGATAAAAT  
GTCATGTCTCATGTGTCCTGGTTCTTACATCTTCCCTACCTCCCTGTATCAAGCATGATATAAGGGCTTTTCATGGCAA  
ATTTTATTTTAACTGTTTCTATGGTTGCTGGAAATGTTGGGTTTAGTTTCTAAAACCATGTTTTAAGTAGCTACAGG  
AGCTATAGATTTGAATCTAATGTTGCATTAGTCTTTTCAGTTATCTTCTACCTCCTGTATTTTCTACTGTAATAATG  
TAATTTAAGGCCTTCCACAATGAACAGTTCACTTTATTCCCTGGGTTTTCTATAAACAGTTTTAAGGATATGATTTG  
GTTAAAAAATAATTTGTTATAAAAAATTCTGTTTGCAAATTAAGTGGAAAAGTATCCAGAGTCTCAAAAGGCAATGA  
TTTGTGAGATAATATGGCATGCCCGGAGCCCTGCTCATCAATGAAAAACCCATATGTAATAATCGAATTCATTTAAC  
ATGAATCTTGAGTACGTGGACCATTGCTTGATGTTAACTTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTG  
AACTCCAGATATCCTAAAGCTCAATTGTTTGGTCTCTGGTTTTTCATCCTTAGAGAAGCCATGGAGAACAGACTTGAA  
AAGTTTAGGAAATCATAATGTGGCAGAGGTGGTGGGAAGAAGAAAGTTGAGCTTTTTTCCCCTTGAGAACTTCTGCA  
TTTAGTTTCTATCTTTCCAGGCAAAACAAATGGGTATTCTTTTCATACAACCATTTTCAAATGAACCTTAGAAAAGT  
CTTAACATTTAAGGTATTTTATGCACAGAATACACTTAGATTGATAGGAAAGAACTCGTAATGGAGTTTGAGTAAAG  
AAAATGACTGATGTACTAAACCCAGTAAAAATTGTTGAAAATGTTAAAGGTCAGCATGTTCTAATTGGGAATCTAGA  
TATAGCTTAGATTTCTATTGGCTTAGAGTATTTGCTATAACAAATGAAGTGCAATGACAATTATATATTCCTACTC  
GGTCATACTGGACTGGCTTCGTTCTCTTAATATACTCAGTAATGACTCAAGCCTCTGGCTATTAACATACCCTAGTT  
GCCGTTTTTTAATTGCCATGAGCCAAATACTTCTTGGTATACAATTGATCCATTTATTTTAAAGGCTGCCTTTTCAT  
TTTCATCTTTTCTTGCTGCTACCCATCTATGTATGTAGTCATTGGGGGGAAAATGTAGCCACATTTTTTATGGGAAG  
ACTTTGTGTTAAAAGTGAACATTTTGAAGGTTTTTAACTGGTGAAACTAGCCTGGAATAATGCCACCAGAGACTGAG  
TGGAATCGCCCCCTTTTGAAGGTGCCATTCTTATGAGCCAAAAGTTTGTCAATTTAAAAGTTTCAATTTGAGGGAATAA  
CATGTAATATAATTTGAAATAAAGGTATAGTAACCTTAAAAAGAACATTATAACTGATTGTTGTGAATGGGGTGAAT  
TTGTTAAAATGAGTAACTTTGATAAAGTTTTTTCATGCACAGGCAAAATGTATTCACTAGATTTCTACGTAGTGATCT  
GCTTTTACTTTGTAATTTGTAGTTCTCAAAGACTTTTTTTTTTAAAAAATAAAGTCCATACTTACACTTAAAAA  
AAAAA

### B. *Homo sapiens* BZW2

CTTCACTCCTCCATTGTCTGCCGCCACTGCTGCTGCTGCTGCTGCTGCCGCTGCTGCTGCACGAATCGCCGAGCCC  
CCAGCCTTGCGCGTCGTCGCTACCTCCTCGGACAGAAATTTTATGAATAAGCATCAGAAGCCAGTGCTAACAGGCCA  
GCGGTTCAAACTCGGAAAAGGGATCAAAAAGAGAAATTCGAACCCACAGTCTTCAGGGATACACTTGTCCAGGGGC

TTAATGAGGCTGGTGATGACCTTGAAGCTGTAGCCAAATTTCTGGACTCTACAGGCTCAAGATTAGATTATCGTCGC  
TATGCAGACACACTCTTCGATATCCTGGTGGCTGGCAGTATGCTTGGCCCTGGAGGAACGCGCATAGATGATGGTGA  
CAAGACCAAGATGACCAACCACTGTGTGTTTTTCAGCAAATGAAGATCATGAAACCATCCGAAACTATGCTCAGGTCT  
TCAATAAACTCATCAGGAGATATAAGTATTTGGAGAAGGCATTTGAAGATGAAATGAAAAAGCTTCTCCTCTTCCTT  
AAAGCCTTTTCCGAAACAGAGCAGACAAAGTTGGCGATGCTGTCTGGGGATTCTGCTGGGCAATGGCACCCCTGCCCGC  
CACCATCCTCACCAGTCTCTTCACCGACAGCTTAGTCAAAGAAGGCATTGCGGCCTCATTTGCTGTCAAGCTTTTCA  
AAGCATGGATGGCAGAAAAAGATGCCAACTCTGTTACCTCGTCTTTGAGAAAAGCCAACTTAGACAAGAGGCTGCTT  
GAACTCTTTCCAGTTAACAGACAGAGTGTGGATCATTTTGCTAAATACTTCACTGACGCAGGTCTTAAGGAGCTTTC  
CGACTTCCTCCGAGTCCAGCAGTCCCTGGGCACCAGGAAGGAAGTGCAGAAGGAGCTCCAGGAGCGTCTTTCTCAGG  
AATGCCCCGATCAAGGAGGTGGTGTCTTTATGTCAAAGAAGAAATGAAGAGGAATGATCTTCCAGAAACAGCAGTGATT  
GGTCTTCTGTGGACATGTATAATGAACGCTGTTGAGTGGAACAAGAAGGAAGAAGTGTGTCAGAGCAGGCTCTGAA  
GCACCTGAAGCAATATGCTCCCCTGCTGGCCGTGTTTCAGTCCCCAAGGCCAGTCAGAGCTGATCCTCCTCCAGAAGG  
TTCAGGAATACTGCTACGACAACATCCATTTTCATGAAAGCCTTTTCAGAAGATTGTGGTTCTCTTTTATAAAGCTGAT  
GTTCTGAGCGAAGAAGCAATACTGAAATGGTATAAGGAAGCACATGTTGCTAAAGGCAAAAGTGTTTTTCTTGACCA  
GATGAAGAAATTTGTTGAGTGGTTACAAAATGCAGAAGAAGAATCCGAATCGGAAGGTGAGGAAAATTAATGGCTC  
AACAAGCACAATACCTAGGTTACCACACACCACTTTTTTGATTGGGAATGCTGAACCATTTGAGAAGAGAACTTGGC  
TTCTGTTTTTCGCAAAGGAAAAAAAAAATAGGATAGGCTTCCCTTGTGCAGAGGGAGAAATGGTTTTGTTTTTGT  
GTTTTTAAATGGAGCCCTGAGGCATCAGCTATTATACTTGGGACTCTACCTCTCACTCACTATATGCTAACTTAAAG  
CCATTCAACAAGGAGTCAAGTAGATCTGAAATTAATACTCAACAGACTCCTCCTTTTTTTAGCTGTATTTTTTCAGGT  
ACTGTGTGGTGACCGCCCCACTGGTGTCTATTACAGGCCACTTTGGTAGTTGTGTATCTGCTCATGTATGTGATTTG  
ACAAACCAGTTTTTTTAAAATAAATGGCTTTTTTAAAAATCTGGGAAAAAAAAA