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**S2 Fig.**

**A. *Homo sapiens* BZW1**

AGGAGACACCGCCGCGAGTTGCCGGTACATCGGGGATTTCTGGCTCTTTCTCTTCGCCTTAAATTCGGGTGTCTTT  
 ATGAATAATCAAAAGCAGCAAAGCCAACGCTATCAGGCCAGCGTTTTAAACTAGAAAAAGAGATCAAAAAGAGAG  
 GTTTTGACCCTACTCAGTTTTCAAGACTGTATTATTCAAGGCTTAACTGAAACCGGTAAGTATTGGAAGCAGTAGCTA  
 AGTTTCTTGATGCTTCTGGAGCAAACCTTGATTACCGTCGATATGCAGAAACACTCTTTGACATTCTGGTGGCTGGT  
 GGAATGCTGGCCCCAGGTGGTACACTGGCAGATGACATGATGCGTACAGATGTCTGCGTGTGGCAGCCCAAGAAGA  
 TCTAGAGACCATGCAAGCATTGCTCAGGTTTTTAACAAGTTAATCAGGCGCTACAAATACCTGGAGAAAGGTTTTG  
 AAGATGAAGTAAAAAGCTGCTGCTGTTCTTGAAGGGTTTTTCAGAGTCGGAGAGGAACAAGCTAGCTATGTTGACT  
 GGTGTTCTTCTGGCTAATGGAACACTTAATGCATCCATTCTTAATAGCCTTTATAATGAAAATTTGGTTAAAGAAGG  
 AGTTTCAGCAGCTTTTTGCTGTGAAGCTCTTTAAATCATGGATAAATGAAAAAGATATCAATGCAGTAGCTGCAAGTC  
 TTCGGAAAGTCAGCATGGATAACAGACTGATGGAACCTTTTCCCTGCCAATAAGCAAAGTGTGAACTTCACAAAA  
 TATTTTACTGAGGCAGGCTTGAAAGAGCTTTCAGAATATGTTCCGGAATCAGCAAACCATCGGAGCTCGTAAGGAGCT  
 CCAGAAAGAAGCTTCAAGAACAGATGTCCCGTGGTGATCCATTTAAGGATATAATTTTATATGTCAAGGAGGAGATGA  
 AAAAAACAACATCCCAGAGCCAGTTGTCATCGGAATAGTCTGGTCAAGTGTAATGAGCACTGTGGAATGGAACAAA  
 AAAGAGGAGCTTGTAGCAGAGCAAGCCATCAAGCACTTGAAGCAATACAGCCCTCTACTTGCTGCCTTTACTACTCA  
 AGGTCAGTCTGAGCTGACTCTGTTACTGAAGATTGAGGAGTATTGCTATGACAACATTCATTTTCATGAAAGCCTTCC  
 AGAAAATAGTGGTGCTTTTTTATAAAGCTGAAGTCCTGAGCGAGGAGCCCATTTTGAAGTGGTATAAAGATGCACAT  
 GTTGCAAAGGGGAAGAGTGTTTTCTTGAAGCAATGAAAAAGTTGTAGAATGGCTCAAAAATGCTGAAGAAGAATC  
 TGAATCTGAAGCTGAAGAAGGTGACTGAATTTTGAAGTACACCCTCAGTAAAGCAAACAGGAGTTGTAGATAAAAT  
 GTCATGTCTCATGTGTCCTGGTTCTTACATCTTCCCTACCTCCCTGTATCAAGCATGATATAAGGGCTTTCATGGCAA  
 ATTTTATTTTAACTGTTTCTATGGTGTGCGAAATGTTGGGTTTAGTTTCTAAAACCATGTTTTAAGTAGCTACAGG  
 AGCTATAGATTTGAATCTAATGTTGCATTAGTCTTTTTCAGTTATCTTCTACCTCCTGTATTTTCTACTGTAATAATG  
 TAATTTAAGGCCCTTCCACAATGAACAGTTCACCTTTATCCCTGGGTTTTTCTATAAACAGTTTTAAGGATATGATTTG  
 GTTAAAAAATAATTTGTTATAAAAATTCTGTTTGCAAATTAAGTGGAAAAGTATCCAGAGTCTCAAAGGCAATGA  
 TTTGTGAGATAATATGGCATGCCCGGAGCCCTGCTCATCAATGAAAAACCCATATGTAATAATCGAATTCATTTAAC  
 ATGAATCTTGAGTACGTGGACCATTGCTTGATGTTAACTTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTG  
 AACTCCAGATATCCTAAAGCTCAATTGTTTGGTCTCTGGTTTTTCATCCTTAGAGAAGCCATGGAGAACAGACTTGAA  
 AAGTTTAGGAAATCATAATGTGGCAGAGGTGGTGGGAAGAAGAAAGTTGAGCTTTTTTCCCCTTGAGAACTTCTGCA  
 TTTAGTTTTCTATCTTTCCAGGCAAACAAATGGGTATTCTTTTTCATACAACCATTTTCAAATGAACCTTAGAAAAGT  
 CTTAACATTTAAGGTATTTTTATGCACAGAATACACTTAGATTGATAGGAAAGAAGTTCGTAATGGAGTTTGAGTAAAG  
 AAAATGACTGATGTACTAAACCCAGTAAAAATTTGTTGAAAATGTTAAAGGTGAGCATGTTCTAATTTGGGAATCTAGA  
 TATAGCTTAGATTTCTATTGGCTTAGAGTATTTGCTATAACAAATGAAGTGCAATGACAATTATATATCTTACTC  
 GGTACTACTGGACTGGCTTCCGTTCTCTTAATATACTCAGTAATGACTCAAGCCTCTGGCTATTAACATAACCTAGTT  
 GCCGTTTTTTAATTGCCATGAGCCAAATACTTCTTGGTATACAATTGATCCATTTATTTAATGGCTGCCTTTTCAT  
 TTTTCATCTTTTCTGCTGCTACCCATCTATGTATGTAGTCATTGGGGGAAAATGTAGCCACATTTTTTATGGGAAG  
 ACTTTGTGTTAAAAGTGAACATTTTGAAGGTTTTTAACTGGTGAAGTACCGCTGGAATAATGCCACCAGAGACTGAG  
 TGGAAATCGCCCCTTTTGAAGGTGCCATTTTATGAGCCAAAAGTTTGTGCTTTTAAAAGTTTCATTTTGGGGAATAA  
 CATGTAATATAATTTGAAATAAAGGTATAGTAACCTTAAAAAGAACATTATAACTGATTGTTGTGAATGGGGTGAAT  
 TTGTTAAAATGAGTAACCTTTGATAAAGTTTTTTCATGCACAGGCCAAAATGTATTCCTAGATTTCTACGTAGTGATCT  
 GCTTTTACTTTGTAATTTGTAGTTCTCAAAGACTTTTTTTTTAAAAAATAAAGTCCATACTTACACTTAAAAAAA  
 AAAAAA

**B. *Homo sapiens* BZW2**

CTTCACTCCTCCATTGTCTGCCGCCACTGCTGCTGCTGCTGCTGCCGCTGCTGCTGCACGAATCGCCGAGCCC  
 CCAGCCTTGCAGCGTCGTCGCTACCTCCTCGGACAGAAATTTTATGAATAAGCATCAGAAGCCAGTGCTAACAGGCCA  
 GCGGTTCAAAGCTCGGAAAAGGGATCAAAAAGAGAAATTCGAACCCACAGTCTTCAGGGATACACTTGTCCAGGGGC

TTAATGAGGCTGGTGAATGACCTTGAAGCTGTAGCCAAATTTCTGGACTCTACAGGCTCAAGATTAGATTATCGTCGC  
TATGCAGACACACTCTTCGATATCCTGGTGGCTGGCAGTATGCTTGGCCCTGGAGGAACGCGCATAGATGATGGTGA  
CAAGACCAAGATGACCAACCACTGTGTGTTTTTCAGCAAATGAAGATCATGAAACCATCCGAAACTATGCTCAGGTCT  
TCAATAAACTCATCAGGAGATATAAGTATTTGGAGAAGGCATTTGAAGATGAAATGAAAAAGCTTCTCCTCTTCCTT  
AAAGCCTTTTCCGAAACAGAGCAGACAAAGTTGGCGATGCTGTCTGGGGATTCTGCTGGGCAATGGCACCCCTGCCCGC  
CACCATCCTCACCAGTCTCTTCACCGACAGCTTAGTCAAAGAAGGCATTGCGGCCTCATTTGCTGTCAAGCTTTTCA  
AAGCATGGATGGCAGAAAAAGATGCCAACTCTGTTACCTCGTCTTTGAGAAAAGCCAACTTAGACAAGAGGCTGCTT  
GAACTCTTTCCAGTTAACAGACAGAGTGTGGATCATTTTGCTAAATACTTCACTGACGCAGGTCTTAAGGAGCTTTC  
CGACTTCCTCCGAGTCCAGCAGTCCCTGGGCACCAGGAAGGAAGTGCAGAAGGAGCTCCAGGAGCGTCTTTCTCAGG  
AATGCCCGATCAAGGAGGTGGTGCCTTATGTCAAAGAAGAAATGAAGAGGAATGATCTTCCAGAAACAGCAGTGATT  
GGTCTTCTGTGGACATGTATAATGAACGCTGTTGAGTGGAACAAGAAGGAAGAAGTGTTCAGAGCAGGCTCTGAA  
GCACCTGAAGCAATATGCTCCCCTGCTGGCCGTGTTTCAGCTCCCAAGGCCAGTCAGAGCTGATCCTCCTCCAGAAGG  
TTCAGGAATACTGCTACGACAACATCCATTTTCATGAAAGCCTTTTCAGAAGATTGTGGTTCTCTTTTATAAAGCTGAT  
GTTCTGAGCGAAGAAGCAATACTGAAATGGTATAAGGAAGCACATGTTGCTAAAGGCAAAAGTGTTTTTCTTGACCA  
GATGAAGAAATTTGTTGAGTGGTTACAAAATGCAGAAGAAGAATCCGAATCGGAAGGTGAGGAAAATTAATGGCTC  
AACAAGCACAATACCTAGGTTACCACACACCCTTTTTGATTGGGAATGCTGAACCATTTGAGAAGAGAAAATTTGGC  
TTCTGTTTTTCGCAAAGGAAAAAAAAAATAGGATAGGCTTCCCTTGTGCAGAGGGAGAAATGGTTTTGTTTTGTTTT  
GTTTTTAAATGGAGCCCTGAGGCATCAGCTATTATACTTGGGACTCTACCTCTCACTCACTATATGCTAACTTAAAG  
CCATTCAACAAGGAGTCAAGTAGATCTGAAATTAATACTCAACAGACTCCTCCTTTTTTAGCTGTATTTTTTCAGGT  
ACTGTGTGGTGACCGCCCCACTGGTGTCTATTACAGGCCACTTTGGTAGTTGTGTATCTGCTCATGTATGTGATTTG  
ACAAACCAGTTTTTTAAAATAAATGGCTTTTTTAAAAATCTGGGAAAAAAAAA