**BRWD3 ENSG00000165288**

**5409 nt**

ATGGCGGCAGCACCTACCCAGATCGAAGCCGAGCTGTATTACCTGATCGCTAGGTTCTTGCAGTCTGGACCCTGCAACAAATCCGCTCAGGTGCTAGTGCAGGAGCTCGAGGAGCATCAGCTGATTCCGCGCCGCTTAGATTGGGAGGGGAAAGAGCACCGAAGAAGCTTCGAGGATCTGGTGGCAGCAAATGCACACATTCCTCCAGACTACCTCCTTAAAATTTGTGAGAGAATTGGTCCTTTACTAGATAAAGAGATCCCTCAGAGTGTTCCTGGGGTACAGACATTATTAGGTGTTGGTCGGCAGTCTCTGCTACGGGATGCCAAAGACTGTAAGAGTACACTATGGAATGGGTCTGCTTTTGCGGCTCTGCATAGAGGCAGACCTCCAGAACTACCTGTAAATTATGTGAAACCTCCAAATGTGGTGAATATCACCTCTGCCAGGCAATTAACCGGCTGTAGTCGCTTTGGTCATATTTTCCCTTCATCTGCTTACCAGCACATTAAGATGCATAAGAGAATTCTGGGGCACTTGTCATCTGTCTACTGTGTAGCATTTGACCGAAGCGGGAGAAGAATTTTTACAGGTTCAGATGACTGTTTAGTAAAAATTTGGGCTACAGATGATGGACGCCTTCTTGCTACACTTCGTGGACACTCTGCTGAAATTTCTGACATGGCTGTTAACTATGAAAACACTCTTATTGCTGCAGGCAGCTGTGATAAGGTAGTAAGAGTATGGTGTCTTCGAACTTGTGCACCCGTTGCAGTCCTTCAGGGCCATTCAGCTTCTATTACTTCCATACAGTTTTGTCCATCAACTAAAGGCACAAACAGATACCTCACTTCTACTGGTGCTGATGGAACAATCTGTTTCTGGCAATGGCATGTAAAAACAATGAAGTTTAGAGATCGCCCGGTGAAATTTACTGAGAGATCCAGACCTGGAGTCCAGATATCTTGTTCATCTTTCAGTTCTGGTGGTATGTTCATTACAACTGGTAGTACTGACCATGTGATTAGAATATATTATTTGGGTTCTGAGGTTCCTGAGAAAATTGCTGAATTAGAGTCACATACGGATAAAGTTGTTGCTGTTCAGTTCTGTAACAATGGAGACAGTTTAAGATTTGTTAGTGGAAGTCGAGATGGAACGGCAAGAATTTGGCAGTATCAGCAACAAGAATGGAAGAGTATAGTGCTAGACATGGCTACTAAAATGACTGGCAATAATTTGCCATCTGGAGAAGACAAGATCACTAAACTTAAGGTGACTATGGTGGCCTGGGATCGCTATGATACCACAGTTATTACTGCAGTGAACAATTTTCTTTTGAAAGTGTGGAATTCTATCACAGGACAGCTTCTTCATACATTATCTGGACATGATGATGAAGTATTCGTTCTAGAAGCCCATCCATTTGATCAAAGGATCATACTTTCAGCAGGTCATGATGGGAACATTTTTATTTGGGACCTTGACCGGGGGACCAAAATTCGGAATTACTTTAACATGATTGAAGGCCAAGGCCATGGTGCGGTGTTTGATTGTAAATTTTCACCAGATGGAAACCATTTTGCCTGCACAGATTCTCATGGACATTTGCTGCTTTTTGGTTTTGGATGCAGTAAATACTACGAAAAGATTCCAGATCAGATGTTCTTCCACACGGATTATCGTCCTCTTATTCGTGATGCCAATAACTATGTATTGGATGAACAAACCCAACAAGCTCCTCACCTCATGCCTCCTCCATTTTTGGTGGATGTTGATGGAAATCCTCATCCCACAAAATTCCAACGGTTGGTACCAGGACGGGAAAATTGTAAAGATGAACAGCTTATACCACAGCTGGGATATGTGGCTAATGGTGATGGTGAGGTAGTAGAACAGGTAATTGGGCAGCAAACCAATGACCAAGATGAGAGCATTCTTGATGGAATAATCAGGGAGCTGCAGAGAGAACAAGACCTGAGACTAATTAATGAAGGAGATGTTCCACATTTACCAGTTAATAGAGCATACTCTGTTAATGGTGCTCTGAGAAGTCCAAACATGGACATATCTTCTTCCCCAAACATCAGGCTTCGAAGACATAGTAGTCAAATTGAAGGTGTTAGACAAATGCATAACAATGCTCCTCGGAGCCAGATGGCCACTGAAAGAGATCTCATGGCGTGGAGCAGAAGAGTGGTGGTCAATGAACTAAATAATGGGGTTAGTAGGGTACAGGAAGAATGTCGAACTGCAAAAGGTGACATAGAAATCAGTCTTTATACAGTTGAAAAGAAGAAAAAGCCATCTTACACTACTCAAAGGAATGATTATGAGCCTAGCTGTGGGCGTTCTTTACGCAGGACACAGCGCAAACGTCAGCATACTTACCAAACACGGTCCAACATAGAGCATAATTCACAGGCATCATGTCAAAATTCAGGTGTACAGGAAGACTCAGACAGTTCTTCAGAGGAAGATGAAACTGTTGGCACAAGTGACGCTTCGGTAGAGGATCCTGTTGTTGAATGGCAAAGTGAAAGTTCTTCCAGTGACTCATCAAGTGAATATTCTGATTGGACAGCAGATGCTGGAATAAATTTACAACCCCCAAAAAGACAAACCAGACAGACAACACGTAAAATATGCAGCAGCTCTGATGAGGAAAATTTGAAGTCCCTAGAAGAAAGGCAGAAGAAACCTAAGCAGACTAGAAAGAAGAAAGGAGGACTGGTTTCTATAGCAGGTGAGCCTAATGAAGAATGGTTTGCCCCTCAGTGGATCTTGGATACTATACCCCGACGTTCCCCATTTGTCCCACAAATGGGAGATGAGCTTATCTATTTTAGGCAAGGACATGAAGCTTATGTTCGGGCTGTAAGGAAATCGAAAATATACAGTGTTAATTTACAAAAACAGCCATGGAACAAAATGGATCTCAGGGAGCAAGAGTTTGTTAAGATTGTAGGAATCAAATATGAGGTTGGCCCACCCACACTGTGCTGCTTGAAGCTTGCATTTCTGGACCCAATTTCAGGCAAAATGACTGGAGAATCTTTTTCCATTAAGTATCATGACATGCCGGATGTCATTGACTTCCTTGTGCTACATCAGTTTTATAATGAAGCCAAAGAAAGGAACTGGCAGATTGGTGATAGATTCCGCAGTATAATAGATGACGCCTGGTGGTTTGGGACTGTGGAGAGTCAGCAGCCTTTTCAACCAGAGTATCCTGATAGTTCTTTCCAGTGTTACAGTGTTCACTGGGACAATAATGAGAGAGAAAAGATGAGCCCATGGGATATGGAGCCAATTCCAGAAGGAACTGCCTTTCCAGATGAAGTTGGTGCTGGTGTTCCTGTCTCCCAGGAAGAATTGACTGCTTTGCTATACAAACCCCAGGAAGGAGAGTGGGGGGCTCATTCCAGAGACGAAGAATGTGAACGGGTTATTCAGGGCATCAACCACCTTCTTTCCCTGGATTTTGCCAGCCCTTTTGCTGTTCCAGTGGATCTCAGTGCCTACCCCTTGTATTGTACTGTAGTTGCTTATCCAACTGACCTCAATACCATCAGGCGGAGACTTGAAAATCGCTTTTACAGGAGAATATCAGCATTAATGTGGGAGGTACGCTATATTGAACATAATGCCAGGACTTTCAATGAGCCAGACAGTCCTATAGTTAAAGCAGCTAAAATTGTAACTGATGTCTTACTTCGATTTATTGGGGATCAGAGCTGTACTGATATACTGGATACTTATAATAAAATTAAAGCAGAAGAACGAAACAGTACTGATGCAGAGGAGGATACAGAAATTGTTGATTTAGATTCAGACGGTCCTGGTACTTCATCTGGAAGAAAGGTCAAATGCCGAGGCAGAAGACAGTCTTTAAAGTGTAATCCTGATGCTTGGAAAAAACAATGCAAGGAACTATTGAGCCTCATTTATGAACGTGAAGACTCGGAGCCATTTCGACAGCCAGCTGATCTTCTTTCTTACCCAGGTCATCAGGAGCAAGAGGGAGAATCCTCAGAGTCTGTTGTTCCAGAAAGACAACAAGATTCATCTCTTTCTGAGGATTATCAAGATGTTATAGATACTCCTGTGGACTTCAGCACTGTGAAAGAAACTTTGGAAGCAGGAAACTATGGTAGTCCTCTGGAATTTTATAAGGATGTTCGCCAAATATTCAACAACTCCAAAGCTTATACCTCTAATAAAAAGTCAAGGATCTATAGCATGATGCTGCGATTATCTGCCTTATTTGAAAGTCATATCAAAAATATCATCTCTGAATATAAGTCAGCAATCCAGAGTCAGAAGAGGAGAAGGCCACGGTACAGAAAACGTCTAAGAAGCAGCAGCAGTTCATTATCTAGTAGTGGAGCACCTAGTCCAAAAGGGAAGCAGAAACAAATGAAGTTGCAGCCTAAAAATGACCAGAATACCTCAGTATCTCATGCCAGGACTAGCTCTCCTTTCTCATCTCCTGTTTCAGATGCTGCTGAAGGGCTTTCACTATATCTACTTGATGATGAGCCAGATGGGCCATTTTCTTCATCGAGCTTCGGTGGATATAGCCGAAGTGGAAATAGCCATGACCCAGGGAAAGCCAAATCATTTCGGAATAGAGTTTTGCCAGTTAAACAAGATCACTCCCTTGATGGACCCCTTACAAATGGTGATGGCAGAGAGCCCCGGACAGGAATCAAGAGAAAACTACTTAGTGCATCAGAAGAAGATGAAAACATGGGAGGAGAAGATAAAGAGAAAAAAGAAACAAAAGAGAAATCTCATTTATCCACCTCAGAGAGTGGAGAGTTAGGATCCAGTTTAAGTTCTGAAAGTACCTGTGGTTCTGACTCTGACTCTGAATCAACTTCCAGAACAGATCAAGATTACGTAGATGGAGACCATGATTATAGCAAATTCATACAAACCAGACCTAAAAGAAAACTCAGAAAGCAACATGGCAATGGAAAAAGAAATTGGAAGACCAGAGGCACAGGAGGAAGAGGCAGATGGGGAAGATGGGGTAGATGGAGTAGAGGAGGCAGAGGAAGAGGAGGCAGGGGACGAGGGAGTCGAGGAAGAGGTGGAGGTGGCACTAGGGGGAGGGGAAGAGGGAGAGGAGGAAGAGGTGCTTCTAGAGGAGCTACCAGAGCCAAACGAGCACGTATTGCAGATGATGAATTTGATACCATGTTTTCAGGACGTTTCAGTAGACTGCCTCGAATTAAAACAAGAAACCAAGGCAGGAGGACTGTTTTATATAATGATGATTCTGATAATGACAATTTTGTGTCCACTGAGGATCCTCTGAATCTTGGTACATCCAGATCAGGCAGAGTGCGTAAAATGACAGAAAAAGCCAGGGTTAGCCATCTCATGGGATGGAATTATTAA

Forward (164-184: 20 bp) Tm: 59.95

GAAGCTTCGAGGATCTGGTG

Reverse（374-394: 20 bp）Tm: 59.97

CTGGAGGTCTGCCTCTATGC

Product: 231 bp

produced by Primer3 (version 0.4.0)

GRCh38.p13 (Ensemble Genome Browser: release 100)