

Product datasheet for **SC116928**

BRD2 (NM_005104) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BRD2 (NM_005104) Human Untagged Clone
Tag:	Tag Free
Symbol:	BRD2
Synonyms:	BRD2-IT1; D6S113E; FSH; FSRG1; NAT; O27.1.1; RING3; RNF3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC116928 representing NM_005104.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCTGCAAAACGTGACTCCCCACAATAAGCTCCCTGGGAAGGGAATGCAGGGTTGCTGGGGCTGGGC
CCAGAAGCAGCAGCACCAGGGAAGAGGATTGAAAAACCTCTCTTGTATGAGGGCTTTGAGAGCCCC
ACAATGGCTTCGGTGCCTGCTTTGCAACTTACCCCTGCCAACCCACCACCCCGGAGGTGTCCAATCCC
AAAAAGCCAGGACGAGTTACCAACCAGCTGCAATACCTACACAAGGTAGTGATGAAGGCTCTGTGAAA
CATCAGTTCGCATGGCCATTCCGGCAGCCTGTGGATGCTGTCAAACCTGGGTCTACCGGATTATCACAAA
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TCAGAGTGTATGCAAGATTTTAATACCATGTTACCAACTGTTACATTTACAACAAGCCCACTGATGAT
ATTGTCCTAATGGCACAACCGTGGAAAAGATATTCCTACAGAAGGTTGCATCAATGCCACAAGAAGAA
CAAGAGCTGGTAGTGACCATCCCTAAGAACAGCCACAAGAAGGGGGCCAAGTTGGCAGCGCTCCAGGGC
AGTGTACCAGTGGCCATCAGGTGCCTGCCGTCTTTCTGTGTACACACAGCCCTGTATACTCCTCCA
CCTGAGATACCTACCAGTGTCTCAACATTCGCCACCCATCAGTCATTTCTCTCCACTTCTCAAGTCC
TTGCACCTGCTGGACCCCGCTCCTTGCTGTTACTGCAGCTCCTCCAGCCAGCCCTTGCCAAGAAA
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CTCAAGCCATCCACACTTAGAGAGCTTGAGCGCTATGTCTTTCTGCCTACGTAAGAAACCCCGGAAG
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TCCAGTCTCCTCTTCTCGTCTGCTTTCAGACACCAGTGATTCAGACTCAGGCTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-Mlul
ACCN: NM_005104
Insert Size: 2406 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_005104.3](#)

RefSeq Size: 4907 bp

RefSeq ORF: 2406 bp

Locus ID: 6046

UniProt ID: [P25440](#)

Cytogenetics: 6p21.32

Domains: BROMO

Protein Families: Protein Kinase

MW: 88.1 kDa

Gene Summary:

This gene encodes a transcriptional regulator that belongs to the BET (bromodomains and extra terminal domain) family of proteins. This protein associates with transcription complexes and with acetylated chromatin during mitosis, and it selectively binds to the acetylated lysine-12 residue of histone H4 via its two bromodomains. The gene maps to the major histocompatibility complex (MHC) class II region on chromosome 6p21.3, but sequence comparison suggests that the protein is not involved in the immune response. This gene has been implicated in juvenile myoclonic epilepsy, a common form of epilepsy that becomes apparent in adolescence. Multiple alternatively spliced variants have been described for this gene. [provided by RefSeq, Dec 2010]

Transcript Variant: This variant (1) and variant 2 encode the same predominant isoform (1).