

Product datasheet for **SC331315**

BRD2 (NM_001199456) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BRD2 (NM_001199456) Human Untagged Clone
Tag:	Tag Free
Symbol:	BRD2
Synonyms:	BRD2-IT1; D6S113E; FSH; FSRG1; NAT; O27.1.1; RING3; RNF3
Vector:	pCMV6-Entry (PS100001)



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Fully Sequenced ORF: >SC331315 representing NM_001199456.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCTTCGGTGCCTGCTTTGCAACTTACCCCTGCCAACCACCACCCCGGAGGTGTCCAATCCCAA
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CAGTTCGCATGGCCATTCGGCAGCCTGTGGATGCTGTCAAACCTGGGTCTACCGGATTATCACAAAATT
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GAGTGTATGCAAGATTTTAATACCATGTTCAACCACTGTTACATTTACAACAAGCCCACTGATGATATT
GTCCTAATGGCACAACGCTGGAAGATATTCCTACAGAAGGTTGCATCAATGCCACAAGAAGAACA
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GAGATACCTACCCTGCTCAACATTCACCACCCATCAGTCATTTCTCTCCACTTCTCAAGTCTTTG
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AAGCGGTTACAAGATGTCAGCGGACAGCTCAATTTACTAAAAAGCCCCCAAGAAAGCGAATGAGAAA
ACAGAGTCATCCTCTGCACAGCAAGTAGCAGTGTACGCCTTAGCGCTTCCAGCTCCAGCTCAGATTCC
AGCTCCTCCTCTCCTCGTGTGCTGCTTTCAGACACCAGTGATTACAGACTCAGGCTAA
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001199456

Insert Size: 2265 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001199456.1](#)

RefSeq Size: 3210 bp

RefSeq ORF: 2265 bp

Locus ID: 6046

UniProt ID: [P25440](#)

Cytogenetics: 6p21.32

Protein Families: Protein Kinase

MW: 83.2 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 (4) has an alternate 5' exon, resulting in a downstream AUG start codon compared to variant 1. The resulting isoform (3) is shorter at the N-terminus, as compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.