

## Product datasheet for **SC337191**

### BRD2 (NM\_001291986) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BRD2 (NM_001291986) 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:** >NCBI ORF sequence for NM\_001291986, the custom clone sequence may differ by one or more nucleotides

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ATGGACATGGGTACTATTAAGAGGAGACTTAAAAACAATTATTATTTGGGCTGCTTCAGAGTGTATGCAAG
ATTTTAATACCATGTTCCACCACTGTTACATTTACAACAAGCCCACTGATGATATTGTCCTAATGGCACA
AACGCTGGAAAAGATATTCCTACAGAAGGTTGCATCAATGCCACAAGAAGAACAAGAGCTGGTAGTGACC
ATCCCTAAGAACAGCCACAAGAAGGGGGCAAGTTGGCAGCGCTCCAGGGCAGTGTACCAGTGCCCATC
AGGTGCCTGCCGTCTCTTCTGTGTACACACAGCCCTGTATACTCCTCCACCTGAGATACCTACCACTGT
CCTCAACATTCACCCATCAGTCATTTCTCTCCACTTCTCAAGTCTTGCACTCTGCTGGACCCCG
CTCCTTGTGTTACTGCAGCTCTCCAGCCAGCCCTTGCCAAGAAAAAGGCGTAAAGCGAAAGCAG
ATACTACCACCCCTACACCTACAGCCATCTTGGCTCTGGTTCTCCAGCTAGCCCTCTGGGAGTCTTGA
GCCTAAGGCAGCACGGCTTCCCCTATGCGTAGAGAGTGGTCGCCCATCAAGCCCCACGCAAAGAC
TTGCTGACTCTCAGCAACAACACCAGAGCTCTAAGAAAGGAAAGCTTTCAGAACAGTTAAACATTGCA
ATGGCATTGTTGAAGGAGTACTCTAAGAAGCATGCTGCCTATGCTTGGCTTTCTATAAACCAGTGGA
TGCTTCTGCATTGGCCTGCATGACTACCATGACATCATTAAAGCACCCATGGACCTCAGCACTGTCAAG
CGGAAGATGGAGAACCGTGATTACCGGGATGCACAGGAGTTTGCTGCTGATGTACGGCTTATGTTCTCCA
ACTGCTATAAGTACAATCCCCAGATCACGATGTTGTGGCAATGGCACGAAAGCTACAGGATGATTTGA
GTTCCGTTATGCCAAGATGCCAGATGAACCACTAGAACCAGGGCCTTTACCAGTCTCTACTGCCATGCC
CCTGGCTTGGCCAAATCGTCTTCAGAGTCTCCAGTGAGGAAAGTAGCAGTGAGAGCTCCTCTGAGGAAG
AGGAGGAGGAAGATGAGGAGGACGAGGAGGAAGAAGAGAGTGAAGCTCAGACTCAGAGGAAGAAAGGGC
TCATCGCTTAGCAGAACTACAGGAACAGCTTCGGGCAGTACATGAACAACCTGGCTGCTGTCCCAGGGT
CCAATATCCAAGCCCAAGAGGAAAAGAGAGAAAAAGAGAAAAAGAAAGAAACGGAAGCAGAGAAGCATC
GAGGCCGAGCTGGGGCCGATGAAGATGACAAGGGCCTAGGGCACCCCGCCACCTCAACCTAAGAAGTC
CAAGAAAGCAAGTGCCAGTGGGGGTGGCAGTGCTGCTTTAGGCCCTTCTGGCTTTGGACCTTCTGGAGGA
AGTGGCACCAAGCTCCCCAAAAAGGCCACAAGACAGCCCACTGCCCTGCCTACAGGTTATGATTGAG
AGGAGGAGGAAGAGAGCAGGCCATGAGTTACGATGAGAAGCGGCAGCTGAGCCTGGACATCAACAAATT
ACCTGGGGAGAAGCTGGGCCGAGTTGTGCATATAATCCAAGCCAGGGAGCCCTTTTACGTGATTCAAAC
CCAGAAGAGATTGAGATTGATTTTGAACACTCAAGCCATCCACACTTAGAGAGCTTGAGCGCTATGTCC
TTTCTGCCTACGTAAGAAACCCCGAAGCCCTACACCATTAAGAAGCCTGTGGGAAAGACAAAGGAGGA
ACTGGCTTTGGAGAAAAAGCGGAATTAGAAAAGCGGTTACAAGATGTCAGCGGACAGCTCAATTCTACT
AAAAAGCCCCCAAGAAAGCGAATGAGAAAACAGAGTCATCCTCTGCACAGCAAGTAGCAGTGTCACGCC
TTAGCGCTTCCAGCTCCAGCTCAGATTCAGCTCCTCCTCTTCTCGTCGTCGTTCTCAGACACCAGTGA
TTCAGACTCAGGCTAA
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001291986

**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\\_001291986.1](#), [NP\\_001278915.1](#)

**RefSeq Size:** 4899 bp

**RefSeq ORF:** 2046 bp

**Locus ID:** 6046

**UniProt ID:** [P25440](#)

**Cytogenetics:** 6p21.32

**Protein Families:** Protein Kinase

**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 (5) has an alternate 5' exon and an additional internal exon compared to variant 1. The resulting isoform (4) is shorter at the N-terminus 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.