

Product datasheet for SC315125

BRD1 (NM_014577) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BRD1 (NM_014577) Human Untagged Clone
Tag:	Tag Free
Symbol:	BRD1
Synonyms:	BRL; BRPF1; BRPF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315125 representing NM_014577. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGAGGAGGAAAGGACGATGTCATCGAGGCTCTGCAGCGAGGCATCCTTCTTCCCATGCAGTGTTAAA
CACTCCCCTACGCGAGAAACGCTGACCTACGCTCAAGCTCAAAGGATGGTAGAGATAGAAATTGAAGGG
CGTTGACACAGGATCAGTATTTTTGATCCCTGGAGATCATATTGGAAGATGACCTCACTGCTCAAGAG
ATGAGTGAGTGCAACAGCAACAAGGAAAACAGCGAGCGGCCTCCTGTCTGCTTAAGAACTAAGCGTCAC
AAAAACAACAGAGTCAAAAAGAAAAACGAGGCCCTCCCAGCGCCACGGCACGCCGCCCTCGGCCAGT
GCCCTCCCGAGCCCAAGGTGCGCATCGTGGAGTACAGCCCTCCGTCCGCCCCAGGAGGCTCCTGTG
TACTACAAGTTTCATCGAGAAGTCGGCCGAGGAAGTGGACAAAGAGTGGAGTATGACATGGACGAGGAG
GACTATGCCTGGCTGGAGATCGTCAATGAGAAGCGCAAGGGCGACTGCGTCCCGCCGCTGTCGAGAGC
ATGTTT GAGTTTCTGATGGACCGCTTCGAGAAGGAGTGCAGTGCAGAAACCAGAAGCAGGGCGAGCAG
CAGTCTCTGATCGACGAGGACGCCGTGTGCTGCATCTGCATGGACGGGGAGTGTGAGAACAGCAACGTG
ATCCTCTTCTGCGACATGTGCAACCTGGCCGTGCACCAGGAGTGTACGGGGTGCCTACATCCCAGAG
GGCCAGTGGCTCTGCCGCCACTGCCTGCAGTCCGGGCCCGCCCGCCGACTGTGTGCTGTGCCCAAC
AAGGGTGGTGCCTTCAAAAAGACAGATGACGACCCTGGGGTACGATGGGGTGGAGAACATCCCTCCAGCCCG
TGGAAACTGACATGCTACCTCTGTAAAGCAGAAGGGCGTGGGTGCCTGCATCCAGTCCACAAAGCAAAC
TGCTACACAGCATTCCATGTGACGTGTGCCAGAGGCTGGCCTGTACATGAAAAAGGAGCCCGTGAAG
GAACTGACTGGCGGTGGCACCACCTTCTCCGTCAGAAAGACCGCTTACTGTGATGTCCACACGCCTCCA
GGCTGCACCCGGAGGCCTCTGAATATTTACGGGGATGTCGAAATGAAAAATGGCGTCTGTGAAAAGAG
AGCTCGGTTAAAACGGTCAGGTCCACATCCAAGGTCAGGAAGAAGGCAAAAAAGGCTAAGAAAGCTCTG
GCTGAGCCCTGCGCGTCTGCCGACCGTGTGCGCTCTTATATCCCCCGCAGAGGTTAAATAGGATT
GCGAATCAGTGGCCATTAGCGGAAGAAGCAGTTTGTGGAGCGAGCCACAGCTACTGGCTGCTCAAG
CGCTGTCCAGGAACGGGGCCCCCTGCTCGGGCGGCTGCAGTCCAGCCTGCAGTCTCAGCGAAGCTCA
```



[View online »](#)

CAGCAGAGAGAAAATGATGAGGAGATGAAGGCTGCCAAAGAGAAGCTGAAGTACTGGCAGCGGCTGCGG
 CACGACCTGGAGCGCGCTCGCCTGCTGATCGAGCTGCTGCGCAAGCGGGAGAAGCTCAAGCGTGAGCAG
 GTGAAGGTGGAGCAGGTGCGCATGGAGCTGCGGCTGACCCCGCTGACGGTGTGCTGCGCTCAGTGTG
 GACCAGCTGCAAGACAAGGACCCCGCCAGGATATTTGCGCAGCCCGTGAGTCTGAAGGAGGTACCAGAT
 TATTTGGATCACATTAACATCCCATGGACTTTGCCACAATGAGGAAACGGTTAGAAGCTCAAGGGTAT
 AAAAACCTCCATGAGTTTGAGGAGGATTTGATCTCATTATAGATAACTGCATGAAGTACAATGCCAGG
 GACACCGTGTCTATAGAGCCCGGTGAGGCTGCGGATCAGGGAGGTGTTGTTCTGAGGCAGGCCCGG
 CCGAGGTGGACAGCATCGGCTTGAAGAGGCCTCGGGGATGCACCTGCCTGAGCGGCTGCTGCGGCA
 CCGCGGGCGCTTCTCCTGGGAAGACGTGGACAGGTTGCTGGACCCCGCAACAGAGCCCACTGGGC
 CTGGAGGAGCAGCTGAGAGAGCTGCTGGACATGCTCGACCTCACCTGCGTATGAAGTCCAGCGGCTCC
 CGGAGCAAAGCGGCAAGCTGCTCAAAAAGGAAATTGCCCTTCTCCGAAACAAGCTGAGCCAGCAGCAC
 AGCCAGCCCTGCCACGGGGCCAGGCTTGAAGGCTTGAAGAGGACGGAGCTGCGCTGGGGCCGGAG
 GCGGGCGAGGAAGTCCTCCGAGGTTGGAGACTTCTGCAGCCAAGGAAAGGTCGCGGAGCACATGC
 GGAGACTCCGAGGTGGAGGAGGAGTCCCAGGAAAGCGCCTGGACGCAGGCTCACCAACGGCTTTGGG
 GGTGCGAGGAGCAGCAGGAGCCGGGCGGCGGCTGGGGAGGAAGGCCACACCCCGACGACGCTGTGCC
 TCCGAGTCCAGCATCTCCTCCAGCAACAGCCCGCTCTGCGACTCGAGCTTAATGCGCCAAATGTGGG
 CGGGGCAAACCGGCTCTGTGCGACGGCACACGCTGGAGGACCGAGTGAGCTGATCTCCTGCATCGAG
 AATGGGAACTACGCCAAGGCGGCCAGGATCGCAGCCGAAGTCGGCCAGAGCAGCATGTGGATCTCCACT
 GATGCCGCGCCTCGGTGCTGGAGCCTCTGAAGGTGGTGTGGGCCAAGTCAGCGGCTACCCCTCTAC
 CCGGCACTGATCATCGACCCCAAGATGCCCGTGTGCCTGGCCACCACAACGGGTCACCATCCCGGCC
 CCACCCCTGGACGTGCTGAAGATTGGGGAGCACATGCAGACCAAGTCTGATGAGAAGCTGTTCTCTGTT
 CTCTTTTTGATAATAAGAGAAGTTGGCAGTGGCTTCTAAGTCCAAAATGGTTCCCTTGGTATTGAC
 GAAACTATAGACAAGTTAAAGATGATGGAAGGGAGGAATTCAGCATCCGGAAGCCGTGCGGATCGCT
 TTTGACCGGCCATGAACCACCTGAGCCCGTCCACGGGGAGCCGACCAGCGACCTCAGTGACATTGAC
 TGA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_014577
- Insert Size:** 3177 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA
- 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_014577.1](#)

RefSeq Size: 4617 bp

RefSeq ORF: 3177 bp

Locus ID: 23774

Cytogenetics: 22q13.33

Domains: PWWP, BROMO, PHD

Protein Families: Druggable Genome, Transcription Factors

MW: 119.5 kDa

Gene Summary: This gene encodes a bromodomain-containing protein that localizes to the nucleus and can interact with DNA and histone tails. The encoded protein is a component of the MOZ/MORF acetyltransferase complex and can stimulate acetylation of histones H3 and H4, thereby potentially playing a role in gene activation. Variation in this gene is associated with schizophrenia and bipolar disorder in some study populations. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2017]