

## Product datasheet for **SC319962**

### **BRD9 (NM\_001009877) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BRD9 (NM_001009877) Human Untagged Clone
Tag:	Tag Free
Symbol:	BRD9
Synonyms:	LAVS3040; PRO9856
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001009877.1  
 GGAAGAGAAGAAGCGGAAGCGAGAGAGGGAGCACTGTGACACGGAGGGAGAGGCTGACGA  
 CTTTGATCCTGGGAAGAAGTGGAGGTGGAGCCGCCAGATCGGCCAGTCCGAGCGTG  
 CCGGACACAGCCAGTTCTCGGTGGAACCTAAAATGCTGTGAGACACCAGACAGACAGATA  
 CTGTGAACTTGGAGCTCTCTAATGAAGGGATACCAAAGCTTGTATTCAATTTTTTTTC  
 CTTAAATTGTGAGCCGAAAATGAGAGCACACCTATTCAGCAACTCCTGGAACACTTCCTC  
 CGCCAGCTTCAGAGAAAAGATCCCCATGGATTTTTTGTCTTTTCTGTCACGGATGCAATT  
 GCTCCTGGATATTCAATGATAATAAAAACATCCCATGGATTTTGGACCATGAAAGACAAA  
 ATTGTAGCTAATGAATACAAGTCAGTTACGGAATTTAAGGCAGATTTCAAGCTGATGTGT  
 GATAATGCAATGACATACAATAGGCCAGATACCGTGTACTACAAGTTGGCGAAGAAGATC  
 CTTACGCAGGCTTAAAGATGATGAGCAAAACAGGCAGCTCTTTGGGCAATGAAGATACA  
 GCTGTTGAGGAACCTGTCCTGAAGTTGTACCAGTACAAGTAGAACTGCCAAGAAATCC  
 AAAAAGCCGAGTAGAGAAGTTATCAGCTGCATGTTTGGCCTGAAGGGAATGCCTGCAGC  
 TTGACGGACAGTACCGCAGAGGAGCACGTGCTGGCGCTGGTGGAGCACGCAGCTGACGAA  
 GCTCGGGACAGGATCAACCGTTCTCCAGGCGCAAGATGGGTATCTGAAGAGGAAC  
 GGGGACGGGAGCCTGCTCTACAGCGTGGTCAACACGGCCGAGCCGGACGCTGATGAGGAG  
 GAGACCCACCCGGTGGACTTGAGCTCGCTCTCCAGTAAGCTACTCCAGGCTTACCACG  
 CTGGGCTTCAAAGACGAGAGAAGAAACAAAGTCACCTTTCTCTCCAGTGCCACTACTGCG  
 CTTTCGATGCAGAATAATTCAGTATTTGGCGACTTGAAGTCGGACGAGATGGAGCTGCTC  
 TACTCAGCCTACGGAGATGAGACAGGCGTGCAGTGTGCGCTGAGCCTGCAGGAGTTTGTG  
 AAGGATGCTGGGAGCTACAGCAAGAAAGTGGTGGACGACCTCCTGGACCAGATCACAGGC  
 GGAGACCACTCTAGGACGCTCTCCAGCTGAAGCAGAGAAGAAATGTTCCCATGAAGCCT  
 CCAGATGAAGCCAAGGTTGGGGACACCCTAGGAGACAGCAGCAGCTCTGTTCTGGAGTTC  
 ATGTCGATGAAGTCTATCCCGACGTTTCTGTGGATATCTCCATGCTCAGCTCTCTGGGG  
 AAGGTGAAGAAGGAGCTGGACCTGACGACAGCCATTTGAACTTGGATGAGACGACGAAG  
 CTCCTGCAGGACCTGCACGAAGCACAGGCGGAGCGCGGGCTCTCGGCCGTCGTCCAAC  
 CTCAGCTCCCTGTCCAACGCTCCGAGAGGGACCAGCACCACTGGGAAGCCCTTCTCGC  
 CTGAGTGTGCGGGAGCAGCCAGAGCTCACCCACGACCCCTATGAGTTTCTTCACTCTCCA  
 GAGCCTGCGGCCCTGCCAAGACCTAACTCTAGACCACCTTCACTCTTTTATTTTATTT  
 TTTTAGTTTTATTTGCACGTGTAGAGTTTTTGTATCAGACAAGGACTTTGATCCTGTC  
 CCCTTTGGCATGCGGGAAGCAGCCGCGGGAGGTAATGAATTGTCTGTGGTATCATGTCA  
 GCAGAGTCTCAAAGCCCCACGAACCCTGAGGAGTGGAGTCATACGGAAGGCCATATGGC  
 CATCGTGTGAGCAGAGAGAGTCTCTGTACACAGCCCCGTGAACCCTGAGGAGTGGAGTCA  
 TACACGAAGGGCGTGTGGCCATCGTGTGACGAGAGAGTCTCTGTACACAGCCCCGTGA  
 ACCCTGAGGAGTGGAGTCATACGGAAGGGTGTGTGGCCAGGCTGCAGAGCTGCGTGGCC  
 TTTGTGTCGAGCATCACGTGTGGCTCCAGCCCTGTTTCTGCCAGTGTAGACACCTCTG  
 TCTGCCCCACTGCTCGGGTCTCTTGGGAGGCACAGGCATGGGTGTGTCTGGCCTCA  
 TTCTGTATCAGTCCAGTGTGTTCTGTATAGTTTGTGTCTCCAGGCAGGCCATGGTAG  
 GGGCCTCGAGGGGCCATTGGGGAGCACAGGGCCAGGCTGGGGTGGAGAGCTCCCCCTG  
 TTTTCTGTTAATTGATGAGCCTGGGAAAGGAGTGTGTTCTGCCTGCCCGTTACAGTGGA  
 CGGTTCCGTGCCATAAACGTTTTCTAACTGGGAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_001009877

**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](mailto: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](#)

**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\\_001009877.1](#), [NP\\_001009877.1](#)

**RefSeq Size:** 2526 bp

**RefSeq ORF:** 1446 bp

**Locus ID:** 65980

**UniProt ID:** [Q9H8M2](#)

**Cytogenetics:** 5p15.33

**Gene Summary:** Plays a role in chromatin remodeling and regulation of transcription (PubMed:22464331, PubMed:26365797). Acts as a chromatin reader that recognizes and binds acylated histones: binds histones that are acetylated and/or butyrylated (PubMed:26365797). Component of SWI/SNF chromatin remodeling subcomplex GBAF that carries out key enzymatic activities, changing chromatin structure by altering DNA-histone contacts within a nucleosome in an ATP-dependent manner (PubMed:29374058).[UniProtKB/Swiss-Prot Function]  
 Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1.