

Product datasheet for **RG208315**

BRD9 (NM_001009877) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BRD9 (NM_001009877) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BRD9
Synonyms:	LAVS3040; PRO9856
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208315 representing NM_001009877
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGGGATACCAAAGTCTTGTATTCAATTTTTTTTTTTCCTTAAATTGTCAGCCGAAAATGAGAGCACAC
 CTATTCAGCAACTCCTGGAACACTTCTCCGCCAGCTTCAGAGAAAAGATCCCCATGGATTTTTTGCTTT
 TCCTGTACGGATGCAATTGCTCCTGGATATTCATGATAATAAAAACATCCCATGGATTTTGGCACCATG
 AAAGACAAAATTGTAGCTAATGAATACAAGTCAGTTACGGAATTAAGGCAGATTTCAAGCTGATGTGTG
 ATAATGCAATGACATAACAATAGGCCAGATACCGTGTACTACAAGTTGGCGAAGAAGATCCTTCACGCAGG
 CTTTAAGATGATGAGCAAACAGGCAGCTCTTTGGGCAATGAAGATACAGCTGTTGAGGAACCTGTCCCT
 GAAGTTGTACCAGTACAAGTAGAACTGCCAAGAAATCCAAAAAGCCGAGTAGAGAAGTTATCAGCTGCA
 TGTTTGAGCCTGAAGGGAATGCCTGCAGCTTGACGGACAGTACCGCAGAGGAGCACGTGCTGGCGCTGGT
 GGAGCACGCAGCTGACGAAGCTCGGGACAGGATCAACCGGTTCTCCAGCGCGCAAGATGGGCTATCTG
 AAGAGGAACGGGACGGGAGCCTGCTCTACAGCGTGGTCAACACGGCCGAGCCGGACGCTGATGAGGAGG
 AGACCCACCCGGTGGACTTGAGCTCGCTCTCCAGTAAGCTACTCCAGGCTTCACCACGCTGGGCTTCAA
 AGACGAGAGAAGAAACAAAGTCACCTTTCTCTCCAGTGCCACTACTGCGCTTTTCGATGCAGAATAATTCA
 GTATTTGGCGACTTGAAGTCGGACGAGATGGAGCTGCTCTACTCAGCCTACGGAGATGAGACAGGCGTGC
 AGTGTGCGCTGAGCCTGCAGGAGTTTGTGAAGGATGCTGGGAGCTACAGCAAGAAAGTGGTGGACGACCT
 CCTGGACCAGATCACAGGCGGAGACCACTCTAGGACGCTCTTCCAGCTGAAGCAGAGAAGAAATGTTCCC
 ATGAAGCCTCCAGATGAAGCCAAGGTTGGGACACCCTAGGAGACAGCAGCAGCTCTGTTCTGGAGTTCA
 TGTCGATGAAGTCTATCCCAGCTTTCTGTGGATATCTCCATGCTCAGCTCTCTGGGGAAGGTGAAGAA
 GGAGCTGGACCCTGACGACAGCCATTTGAACTTGGATGAGACGACGAAGCTCCTGCAGGACCTGCACGAA
 GCACAGGCGGAGCGGGCGGCTCTCGGCCGTCGTCACCTCAGCTCCCTGTCCAACGCCTCCGAGAGGG
 ACCAGCACCACTGGGAAGCCCTTCTCGCCTGAGTGTGGGGAGCAGCCAGACGTACCCACGACCCCTA
 TGAGTTTCTTTCAGTCTCCAGAGCCTGCGGCCTCTGCCAAGACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208315 representing NM_001009877
 Red=Cloning site Green=Tags(s)

MKGYQSLVFNFFFLKLSAENESTPIQQLLEHFLRQLQRKDPHGFFAFPVTDIAIPGYSMIIKHPMDFGTM
 KDKIVANEYKSVTEFKADFKLMCDNAMTYNRPDVTYYYKLAKKILHAGFKMMSKQAALLGNEDTAVEEPPV
 EVVPVQVETAKKSKKPSREVISCMFEPEGNACSLTDSTAEHVLALVEHADEARDRINRFLPGGKMGYL
 KRNGDGSLLYSVVNTAEPDADEEETHPVDLSSLSKLLPGFTTLGFKDERRNKVTFLLSSATTALSMQNNNS
 VFGDLKSDMEMLLYSAYGDETGVCALSLQEFVKDAGSYSKKVVDLLDQITGGDHSRTLFLQKQRRNVP
 MKPPDEAKVGDTLGDSSSVLEFMSMKSYPDVSDISMLSSLGKVKKELDPDSSHNLNDETTKLLQDLHE
 AQAERGGSRPSSNLSSLNASERDQHHLGSPSRLSVGEQPDVTHDPYEFLLQSPEPAASAKT

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001009877

ORF Size: 1443 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

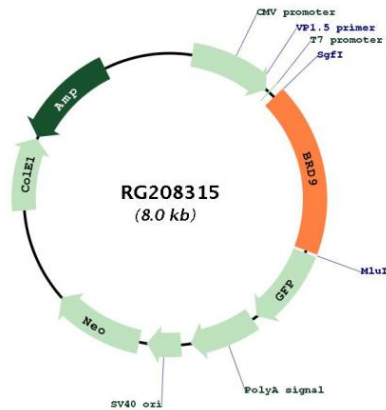
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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: 2395 bp
RefSeq ORF: 1635 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]

Product images:



Circular map for RG208315