

Product datasheet for **MG223618**

Brd2 (NM_010238) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Brd2 (NM_010238) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Brd2
Synonyms:	AW228947; D17H6S113E; Frg-1; Fsrg-1; Fsrg1; mKIAA4005; Nat; Ring3; Rnf3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223618 representing NM_010238
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCAAAACGTGACTCCCCACAAGCTCCCTGGGGAAGGGAATGCAGGTTATTGGGGCTGGGCCAG
 AGGCAGCAGCACCAGGAAAAGGATTCGAAAGCCTTCTCTGCTGTATGAGGGATTTGAGAGCCCCACAAT
 GGCTTCTGTACCACTTTACAACCTGGCCCTGCCAATCCACCACCCCTGAGGTGCCAATCCCAAAAAG
 CCAGGACGGGTAACAAACCAACTGCAGTACCTGCACAAGGTAGTGATGAAGGCTCTGTGGAAGCATCAGT
 TTGCATGGCCATTCGGCAGCCTGTGGACGCTGTGAAGCTGGGTTTCCGGATTATCACAAAATTATAAA
 ACAGCCTATGGACATGGTACTATCAAGAGGAGACTTGAAAACAATTACTACTGGGCTGCCTCAGAATGT
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 CACCAAAAAGCCTCCCAAGAAAGCGAGTGAGAAGACAGAGTCATCTGCACAGCAAGTGGCAGTGTCCCGT
 CTCAGTGTCTTAGTTCAGCTCAGATTCAGCTCCTCGTCGTCATCTTCTCTTTCAGACACCAGCG
 ATTCAGACTCGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG223618 representing NM_010238
 Red=Cloning site Green=Tags(s)

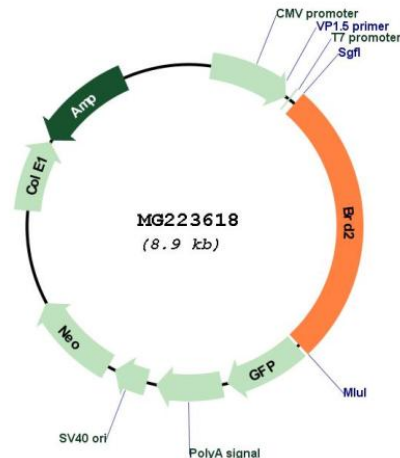
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MLQNVTPHKLPGEAGNAGLLGLGPEAAAPGKRIRKPSLLYEGFESPTMASVPALQLAPANPPPPEVSNPKK
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AHQVPAVSSVSHTALYTPPPEIPTTVLNIHPHSVISSPLLKSLHSAGPPLLAVSAAPPAQPLAKKKGVKR
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HCNGILKELLSKKHAAYAWPFYKPVASALGLHDYHDIKHPMDLSTVKRKMENRDYRDAQEFAADVRLM
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EEEEEEEEDEDEESESSDSEERAHRLAELQEQLRAVHEQLAALSQGPISKPKRKREKKEKKRKAEK
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SEEEEE SRPMSYDEKRQLSLDINKLPGEKLRVVHIIQAREPSLRDSNPEEIEIDFETLKPSTLRELERY
VLSCLRKKPKRPYTIRKPVGKTKHEELALEKKRELEKRLQDVSGQLNSTKKPPKASEKTESAQQVAVSR
LSASSSSDSSSSSSSSSDTSDSDSG
  
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Plasmid Map:



ACCN: NM_010238

ORF Size: 2394 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_010238.3](#), [NP_034368.2](#)

RefSeq Size: 4504 bp

RefSeq ORF: 2397 bp

Locus ID: 14312

UniProt ID: [Q7J113](#)

Cytogenetics: 17 17.98 cM

Gene Summary: Binds hyperacetylated chromatin and plays a role in the regulation of transcription, probably by chromatin remodeling. Regulates transcription of the CCND1 gene. Plays a role in nucleosome assembly (By similarity). May play a role in spermatogenesis or folliculogenesis. [UniProtKB/Swiss-Prot Function]