

## Product datasheet for **MG210310**

### **Brd3 (NM\_023336) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Brd3 (NM_023336) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Brd3
Synonyms:	2410084F24Rik; AW060456; Fsrg2; ORFX; RINGL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG210310 representing NM\_023336  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCCACTACAGCGGCTGCCCCACGGGGATCCCGGCAGTCCCGGGCCCGTGAACCTCCCCACCTG  
 AGGTCTCCAACCCAGCAAGCCCGGCGAAAGACTAACCAACTGCAGTACATGCAGAATGTAGTGGTGAA  
 GACACTCTGGAACATCAGTTTGCTGGCCTTTCTACCAGCCTGTGGATGCAATCAAGCTGAACCTGCCT  
 GATTATCATAAAAATAAAAAACCCAATGGACATGGGGACTATCAAGAAGAGACTAGAAAAAATTATT  
 ATTGGAGTGCCAGTGAGTGTATGCAGGACTTCAACACCATGTTTACAACTGTTATTTATAAAGCC  
 CACAGATGATATAGTGCTAATGGCCAGGCCTTAGAGAAAATCTTTCTGCAGAAAGTGGCCAGATGCCT  
 CAGGAGGAAGTTGAACTATTGCCCTGCTCAAAGGGCAAAGGCCGGAAGCCAGCTGCAGGAGCCAAA  
 ATGCAGGTTCCCAACAAGTGGCAGCTGTGTCTTCGGTCTCCCAGCAACCCCTTCCAGAACATACCCCC  
 CACCGTGTCCAGACACCCGTCATTGCCGCCACCCTGTACCAACCATCACTGCAACAGTCACTGACGTT  
 CCAGTCCCCCACCCACTGCACCGCCTCCTCCTGCGACACCCATCGTCCCTGTGGTCCCTCCCACACCGC  
 CTGTAGTCAAGAAAAAGGGCGTGAAGCGGAAAGCAGACACAACCCACCCACAACATCTGCCATCACTGC  
 CAGCCGGAGTGAGTCTCCCCGCCACTTTCAGAGCCCAAGCAAGCAAGGTAGTGGCCCGAAGGGAGAGC  
 GGGGGCCGCCCATCAAACCTCCCAAGAAGGACCTGGAAGATGGTGGAGTCCCACAGCACGCGGGTAAAA  
 AGGGAAAAGTGTCCGAGCACCTGCGGCACTGTGACAGCATCCTCCGGGAGATGCTGTCCAAGAAGCATGC  
 TGCCTATGCGTGGCCCTTTACAAGCCAGTGGACGCGGAGGCGCTGGAGCTGCATGACTACCATGACATC  
 ATCAAGCACCCCATGGACCTCAGCACGGTCAAAGGAAGATGGATAGCCGAGAGTACCCAGATGCACAGG  
 GCTTTGTGCTGATATCCGGTTAATGTTCTCGAATTGTTATAAGTACAACCTCCAGACCAAGTGGT  
 GGCCATGGCCAGGAAGCTCCAGGATGTGTTTGGATGAGGTTTGCCAAGATGCCCGATGAGCCCATGGAG  
 GCACCTGCGCTGCCCGCTCCACGGCCCCATCGTGAGCAAGGGGGCTGAGAGCAGCCGAGTAGTGAGG  
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 CACCAAGAAGGCCAACAGCACAACCACAGCCAGCAGACAGCTCAAGAAGGGCGGCAAGCAGGCATCTGCG  
 TCCTATGACTCAGAGGAAGAGGAGGAGGGCCTGCCCATGAGCTATGATGAAAAGCGACAACCTTAGCCTTG  
 ACATCAACCGGCTGCCCGCGAGAAGCTAGGGCGTGTGGTGCACATCATTCAAGTCTCGGGAGCCCTCGCT  
 TCGGGACTCAAACCCAGACGAGATTGAGATTGACTTTGAGACCCTGAAGCCAACCAGCTGCGGGAACTG  
 GAGAGATATGTCAAGTCTTGTTTACAAAAAAGCAGAGGAAACATTGTCAACAAGCGGGAAGAAGCAGG  
 CAGCCAAATCGAAAGAGGAGCTAGCTCAGGAGAAGAAAAAGGAGCTGGAGAAGCGGCTGCAGGATGTGAG  
 TGGACAACTGAACAGCAAAAAACCCACTAAGAAAGAGAAGTCCGGCTCAGCTCCCTCAGGAGGCCATCA  
 AGGCTCAGCAGTAGCAGCTCCTCTGAGTCTGCGAGCAGTAGCTCCAGTGGATCGAGCTCCGACAGCAGTG  
 ACTCAGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210310 representing NM\_023336  
 Red=Cloning site Green=Tags(s)

MSTTAAAPTGIPAVPGPVNPPPEVSNPSKPGRKTNQLQYMQNVVVKTLWKHQFAWPFYQPVDAIKLNL  
 DYHKI IKNPMDMGTIKKRENNYYWSASECMQDFNTMFTNCYIYNKPTDDIVLMAQALEKIFLQKVAQMP  
 QEEVELLPAPKGGKGRKPAAGAQNAGSQVAAVSSVSPATPFQNIPTVSTPVI AATPVPTITANVTSV  
 PVPPPTAPPPATPIVPVVPPTPPVVKKKGVKRKADTTTPTTSAITASRSESPPLSEPKQAKVVARRES  
 GGRPIKPPKDLLEDGEVPOHAGKKGKLEHLRHCD SILREMLSKKHAAYAWPFYKPVDAEALHDYHDI  
 IKHPMDLSTVKRKMDSREYPDAQGFAADIRLMFSNCYKYNPPDHEVVAMARKLQDVFEMRF AKMPDEPME  
 APALPAPTAPIVSKGAESSRSSEESSSSSGSSDSEERATRLAELQEQLKAVHEQLAALSQAPV NPKPKK  
 KEKKEKKEKDKDKDKEKEKHKAKSEEEKKAKAAPAAKQAQKKAPT KKANSTTTASRQLKGGKQASA  
 SYDSEEEELPMSYDEKRQLSLDINRLPGEKLRV VHI IQSREPSLRDSNPDEIEIDFETLKPTTLREL  
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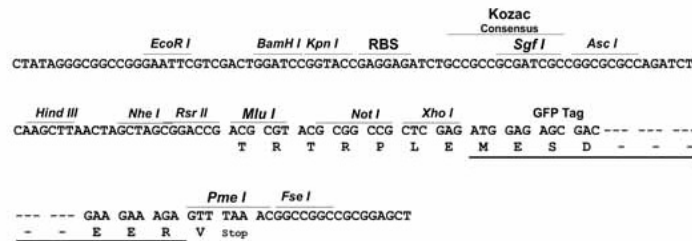
TRTRPLE - GFP Tag - V

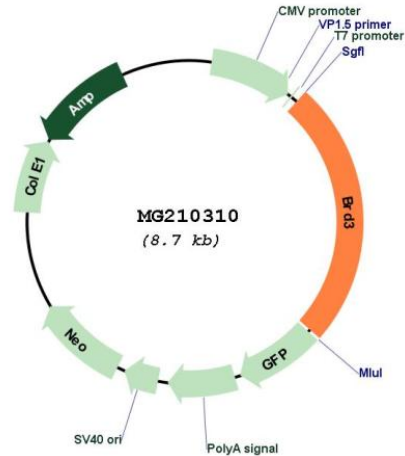
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_023336

**ORF Size:** 5426 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](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 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_023336.3</a>
<b>RefSeq Size:</b>	3033 bp
<b>RefSeq ORF:</b>	2181 bp
<b>Locus ID:</b>	67382
<b>UniProt ID:</b>	<a href="#">Q8K2F0</a>
<b>Cytogenetics:</b>	2 A3
<b>Gene Summary:</b>	Chromatin reader that recognizes and binds hyperacetylated chromatin and plays a role in the regulation of transcription, probably by chromatin remodeling and interaction with transcription factors (PubMed:21536911). Regulates transcription by promoting the binding of the transcription factor GATA1 to its targets (PubMed:21536911).[UniProtKB/Swiss-Prot Function]