

Product datasheet for **MG224008**

Brd3 (NM_001113574) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Brd3 (NM_001113574) 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:

>MG224008 representing NM_001113574
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCACTACAGCGGCTGCCCCACGGGGATCCCGGCAGTCCCGGGCCCGTGAACCTCCCCACCTG
 AGGTCTCCAACCCAGCAAGCCCGGGCGAAAGACTAACCAACTGCAGTACATGCAGAATGTAGTGGTGAA
 GACACTCTGGAACATCAGTTTGCTGGCCTTTCTACCAGCCTGTGGATGCAATCAAGCTGAACCTGCCT
 GATTATCATAAAAATAAAAAACCCAATGGACATGGGGACTATCAAGAAGAGACTAGAAAAATAATTATT
 ATTGGAGTGCCAGTGAGTGTATGCAGGACTTCAACACCATGTTTACAACTGTTATTTTATAAAGCC
 CACAGATGATATAGTGCTAATGGCCAGGCCTTAGAGAAAATCTTTCTGCAGAAAGTGGCCAGATGCCT
 CAGGAGGAAGTTGAACTATTGCCCTGCTCAAAGGGCAAAGGCCGGAAGCCAGCTGCAGGAGCCAAA
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 CACCGTGTCCAGACACCCGTCATTGCCGCTACCCTGTACCAACCATCACTGCAAACTGCAGTCACTGTT
 CCAGTCCCCCACCCGCTGCACCGCCTCCTCCTGCGACACCCATCGTCCCTGTGGTCCCTCCCACACCGC
 CTGTAGTCAAGAAAAAGGGCGTGAAGCGGAAAGCAGACACAACCACCCACAACATCTGCCATCACTGC
 CAGCCGGAGTGAGTCTCCCCACCACTTTCAGAGCCCAAGCAAGCAAGGTAGTGGCCCGAAGGGAGAGC
 GGGGGCCGCCCATCAAACCTCCCAAGAAGGACCTGGAAGATGGTGGAGTCCCACAGCACGCGGGTAAAA
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 TGCCTATGCGTGGCCCTTTACAAGCCAGTGGACGCGGAGGCGCTGGAGCTGCATGACTACCATGACATC
 ATCAAGCACCCCATGGACCTCAGCACGGTCAAAGGAAGATGGATAGCCGAGAGTACCCAGATGCACAGG
 GCTTTGCTGCTGATATCCGGTTAATGTTCTCGAATTGTTATAAGTACAACCTCCAGACCAGAAGTGGT
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 GCTAGCTCAGGAGAAGAAAAAGGAGCTGGAGAAGCGGCTGCAGGATGTCAGTGGACAACCTGAACAGCAA
 AAACCCACTAAGAAAGAGAAGTCCGGCTCAGCTCCCTCAGGAGGCCCATCAAGGCTCAGCAGTAGCAGCT
 CCTCTGAGTCTGCGAGCAGTAGTCCAGTGGATCGAGCTCCGACAGCAGTGAAGTCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224008 representing NM_001113574
 Red=Cloning site Green=Tags(s)

MSTTAAAPTGIPAVPGPVNPPPEVSNPSKPGRKTNQLQYMQNVVVKTLWKHQFAWPFYQPVDAIKLNL
 DYHKI IKNPMDMGTIKKRENNYYWSASECMQDFNTMFTNCYIYNKPTDDIVLMAQALEKIFLQKVAQMP
 QEEVELLPAPKGGKGRKPAAGAQNAGSQVAAVSSVSPATPFQNIPTVSTPVI AATPVPTITANVTSV
 PVPPPAAPPPATPIVPVVPPTPPVVKKKGVKRKADTTTPTTSAITASRSESPPLSEPKQAKVVARRES
 GGRPIKPPKDLLEDGEVPOHAGKKGKLEHLRHCDLREMLSKKHAAYAWPFYKPVDAEALHLDYHDI
 IKHPMDLSTVKRKMDSREYPDAQGFAADIRLMFSNCYKYNPPDHEVVAMARKLQDVFEMRFKMPDEPME
 APALPAPTAPIVSKGAESSRSSEESSSDSGSSDSEEERATRLAELQEQTGCGAFQDQLLNYSVQLKAVH
 EQLAALSQAPVKNPKKKKKEKKEKKEKDKDKDEKEKHKAKSEEEKKAKAAPAAKQAQKQKAPTCKANS
 TTTASRQLKGGKQASASYDSEEEEEGLPMSYDEKRQLSLDINRLPGEKLRVVIHIQSREPSLRDSNP
 EIEIDFETLKPTTLRELERYVKSCLQKQRKPLSTSGKKQAAKSKEELAQEKKKELEKRLQDVSGLNSK
 KPTKKEKSGSAPSGGPSRLSSSSSESASSSSSGSSSDSSDSE

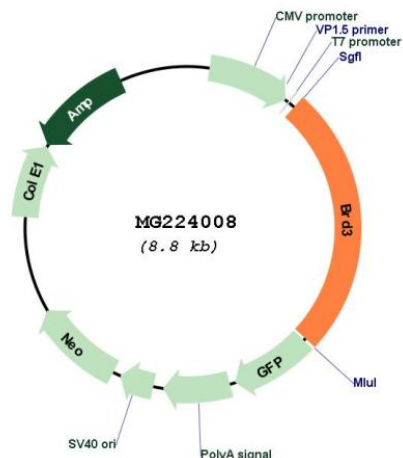
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001113574

ORF Size: 2229 bp

OTI Disclaimer: 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_001113574.1](#), [NP_001107046.1](#)

RefSeq Size: 5320 bp

RefSeq ORF: 2232 bp

Locus ID: 67382

UniProt ID: [Q8K2F0](#)

Cytogenetics: 2 A3

Gene Summary: 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]