

Product datasheet for **MG223690**

Brd8 (NM_030147) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Brd8 (NM_030147) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Brd8 |
| Synonyms: | 2610007E11Rik; 4432404P07Rik; SMAP |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG223690 representing NM_030147
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGACCGGGACAGGCAAGCACAAGCTGCTGAGTACTGGCCCAACAGAGCCATGGTCCATCCGAGAGA
 AGTTGTGTTTAGCATCTTCTGTCATGAGGAGTGGGGATCAGAACTGGGTATCAGTTAGCAGAGCAATCAA
 GCCCTTTCGAGAACCTGGCCGGCCTCCAGACTGGTTCTCTCAAAAACATTGTGCTTCTCAGTATTCTGAG
 CTCTTAGAGACTACTGAGACTCCAAAACGGAAACGGGGTAAAAAGGAGAAGTGGTAGAAACTGTTGAAG
 ATGTTATTGTTTCGAAACTGACTGCTGAGAGAGTTGAAGAACTGAAGAAAGTCATAAAGGAGACACAGGA
 GAGATACAGGCGTCTGAAAAGAGATGCAGAATAATCCAAGCCGGGCACATGGACAGCAGACTGGATGAG
 CTCTGCAATGACATTGCAATGAAAAGAAATTGGAAGAGGAAGAGGCTGAAGTAAAAAGGAAGGCCACCG
 ATGCTGCGTACCAGGCGGACAAGCAGTAAAACGCCTCCTCGAAGGTTACCGACTGTGATGGTCCGCTC
 TCCTGTAGACTCTGCCTCCCAGGAGGTGATTACCCACTTGGAGACTTACTCCAACCACATGGAAGAG
 GCTACCTCTGGGGTAACCCCTGGGACTTTGCCGAGTACCCAGTACCTCGTTTCTGGGATTCCTGACA
 CCCTTCTCCAGGCTCTGCACCCTTAGAAGCCCCATGACCCCAATAACAGATGATTACCCAGAAAAA
 GATGCTTGGACAGAAAGCAACTCCACCCCTCCCTCTGCTGTGACAGCTCTTGAAGAAGGGCAGCCCTC
 CTGCCTACTAGCCCAGACTGGTGAATGAGAGTGAATGCCTGTACCCCTGGCCATCTGAACAGCACAG
 GGGTCTCTTGGAGGTAGGAGGGGTTCTCCCATGATACATGGTGGGAGATACAGCCAACAACCAAGTGC
 TGTGGCGGCTCCCGGCTGCCTCAGGTGCTCCACTCTTCCCGGCTTTTAGAAGCTGGGCCACACAG
 TTCACCACTCCTCTTCTTCTTCACTACTGTTGCCAGTGAAGCCAGTTAAGCTTGTGCCACCCCTG
 TAGACTGTGTCCAGGCTACCAATGTCATGATGCCCGGCTGCCAGCACCACTCTGCTGGGGGAT
 CTCCACTTCTGAAAGTGGAGCTCCAGTGAGCCAGCCTGAGCCCTGTGTACCCCTGGAAGCTGTGGGGAT
 CCACATACTGTGACTGTTTCCATGGATAGCAATGAAATCTCCATGATCATTAAATCCATCAAGAAGAGT
 GTTCCGCTCAGGGGTAGCAGAGGCTCCTGGTGGATCAAAGGCTCCAAGCATAGATGGGAAGGAAGACTT
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 GACATCATTGCCATCATTGAGGACAAGGTGGATGATCACCTGAAGTGTGGATGTGGCAGCGGTAGAAG
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 GCAGGAGCGGACAAGCCAGTACCTCTGCCAGCACCAGAGATGACAGTCAAACAAGAGAGGCTAGACTTC
 GAGGAATCAGAAAACAAGGGCTCCATGACCTGGTGGACATCAGGGATTCCGGTGTGAGATTAAGGTGG
 AACCCACAGAGCCAGAGCCAGGCATGTCTGGGGCTGAGATAGTAGCTGGAGTTGGTCCAGTTCCAAGTAT
 GGAGCCACCAGAACTCAGGAGTCAAGACTCAGATGAAGAACCTAGAAGTTCTGCAGCTGGAGACATTGGT
 GAGGCAGATGGTCCAGTGGGAAAGGCGATGAGAGGCCACTTTCAGCTGTGAAGCAGAGGCATCCCTG
 AGAGCATGTTGTCTCCATCACATGGCTCAAATCTTATTGAAGATCCTTTAGAGGCAGAGACTCAACACAA
 GTTTGAAATGTCAGACTCATTGAAAGAAGAATCAGGGACTATTTTTGGAAGCCAGATAAAGGATGCCCA
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 GAGAAGGCTATTTGTCTGAGATGGATAATGAGCCCCCTGTGAGTGAAGTGTGATGGCTTTAGTATACA
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 GTGTGCAGTGAAGATCAAGAAGCAATTCAGGCTCAGAAAATATGGAAGAAAGCCATCATGCTTGTATGGA
 GGGCTGCAGCAAATCATAGGTATGCCAATGTGTTCTGCAACCTGTTACAGATGACATAGCTCCTGGTTA
 CCATAGCATTGTACAGAGGCTATGGATTTGTCAACTATAAAGAAAAACATTGAAAATGGACTGATCCGA
 AGCACAGCTGAGTTTCAGCGTGACATCATGCTGATGTTTCAGAATGCTGTTATGTACAATAGCTCAGACC
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 ACAGTTGATTATGCAAACATCTGAGTCTGGAATCAGTGTAAAAGTCTCCGGGGGAGAGACTCTACCCGA
 AAACAAGATGCTTCAGAGAAGGACAGTGTCCCATGGGCTCTCCTGCCTTCTTCTCTCTCTTTGATG
 GGGGAACAGGGACGCCGCTGTGCCATTGAAGCAGATATGAAGATGAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG223690 representing NM_030147
Red=Cloning site Green=Tags(s)

MATGTGKHKLLSTGPTEPWSIREKLCCLASSVMRSGDQNWVSVSRAIKPFAEPGRPPDWFSSQKHCASQYSE
 LLETTETPKRKRGEKGEVVETVEDVIVRKLTAERVEELKKVIKETQERYRRLKRDAELIQAGHMDSRLDE
 LCNDIAMKKKLEEEAEVKRKATDAAYQARQAVKTPRRLPTVMVRSVPDSASPGGDYPLGDLTPTTME
 ATSGVTPGTLPSTPVTSPFPGIPDTLPPGSAPLEAPMTPITDDSPQKKMLGQKATPPPSPLSELLKKGSL
 LPTSPRLVNESEMPVPPGHLNSTGVLLLEVGGVLPMIHGGEIQPTTSAVAASPAASGAPTLRLLLEAGPTQ
 FTTPLPSFTTVASEPPVKLVPPPVESVSQATIVMMPALPAPSSAAAVSTSESGAPVVSQPEPCVPLEAVGD
 PHTVTVSMDSNEISMIINSIKEECFRSGVAEAPGGSKAPSIDGKEDLDLAEKMDIAVSYTGEELDFETVG
 DIIAIIEDKVDDHPEVLDAAVEAALSFCEENDDPQSLPGWEHP IQQERDKPVPLPAPEMTVKQERLDF
 EESENKGLHDLVDIRDSGVEIKVEPTEPEPGMSGAEIVAGVGPVPSMEPPELRSQDSDEEPRSSAAGDIG
 EADGSSGKDERPLSAVKTEASPESMLSPSHGSLNIEDPLEAETQHKFEMSDSLKEESGTFGSGIKDAP
 GDDEEEDGVSEAAASLEEKEDQEGEYLSEMDNEPPVSESDDGFSIHNATLQSHTLADSIPSSPASSQFS
 VCESDQEA IQAQKIWKKAIMLVWRAAANHRYANVFLQPVTDDIAPGYHSIVQRPMDLSTIKKNIENGLIR
 STAEFQRDIMLFQNAVMYNSSDHDVYHMAVEMQRDVLEQIQFLATQLIMQTSSESGISAKSLRGRDSTR
 KQDASEKDSVPMGSPAFLLSLFDGGTRRRCAIEADMKMKK

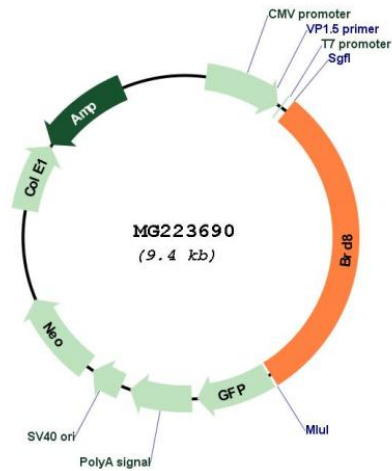
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_030147

ORF Size: 2853 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_030147.3](#)

RefSeq Size: 4677 bp

RefSeq ORF: 2856 bp

Locus ID: 78656

UniProt ID: [Q8R3B7](#)

Cytogenetics: 18 B1

Gene Summary: May act as a coactivator during transcriptional activation by hormone-activated nuclear receptors (NR). Stimulates transcriptional activation by AR/DHTR, ESR1/NR3A1, RXRA/NR2B1 and THRB/ERBA2. Component of the NuA4 histone acetyltransferase (HAT) complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage. Component of a SWR1-like complex that specifically mediates the removal of histone H2A.Z/H2AFZ from the nucleosome.[UniProtKB/Swiss-Prot Function]