

## Product datasheet for **MR231315**

### **Brd8 (NM\_001289607) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Brd8 (NM_001289607) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Brd8
Synonyms:	2610007E11Rik; 4432404P07Rik; SMAP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR231315 representing NM\_001289607  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGACCGGGACAGGCAAGCACAAGCTGCTGAGTACTGGCCCAACAGAGCCATGGTCCATCCGAGAGA  
 AGTTGTGTTTAGCATCTTCTGTCATGAGGAGTGGGGATCAGAAGTGGGTATCAGTTAGCAGAGCAATCAA  
 GCCCTTTCGAGAACCCTGGCCGGCCTCCAGACTGGTTCTCTCAAAAACATTGTGCTTCTCAGTATTCTGAG  
 CTCTTAGAGACTACTGAGACTCCAAAACGGAAACGGGGTAAAAAGGAGAAGTGGTAGAAACTGTTGAAG  
 ATGTTATTGTTTCGAAACTGACTGCTGAGAGAGTTGAAGAACTGAAGAAAGTCATAAAGGAGACACAGGA  
 GAGATACAGGCGTCTGAAAAGAGATGCAGAATAATCCAAGCCGGGCACATGGACAGCAGACTGGATGAG  
 CTCTGCAATGACATTGCAATGAAAAGAAATTGGAAGAGGAAGAGGCTGAAGTAAAAAGGAAGGCCACCG  
 ATGCTGCGTACCAGGCGGACAAGCAGTAAAACGCCCTCTCGAAGGTTACCGACTGTGATGGTCCGCTC  
 TCCTGTAGACTCTGCCTCCCAGGAGGTGATTACCCACTTGGAGACTTACTCCAACCACATGGAAGAG  
 GCTACCTCTGGGGTAACCCCTGGGACTTTGCCGAGTACCCAGTACCTCGTTTCTGGGATTCTTGACA  
 CCCTTCTCCAGGCTCTGCACCCTTAGAAGCCCCATGACCCCAATAACAGATGATTACCCAGAAAAA  
 GATGCTTGGACAGAAAGCAACTCCACCCCTCCCTCTGCTGTGAGAGCTCTTGAAGAAGGGCAGCCCTC  
 CTGCCTACTAGCCCAGACTGGTGAATGAGAGTGAATGCCTGTACCCCTGGCCATCTGAACAGCACAG  
 GGGTCTCTTGGAGGTAGGAGGGGTTCTCCCATGATACATGGTGGGAGATACAGCCAACAACCAAGTGC  
 TGTGGCGGCTCCCGGCTGCCTCAGTGAGCCAGCCTGAGCCCTGTGTACCCCTGGAAGCTGTGGGGAT  
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 GTTTCCGCTCAGGGGTAGCAGAGGCTCCTGGTGGATCAAAGGCTCCAAGCATAGATGGGAAGCAAGACTT  
 GGATCTAGCGGAGAAGATGGATATTGCTGTCTTACACAGGTGAAGAGTTGGACTTTGAAACAGTTGGA  
 GACATCATTGCCATCATTGAGGACAAGGTGGATGATCACCTGAAGTGTGGATGTGGCAGCGGTAGAAG  
 CGGCGTTATCGTTCTGTGAAGAGAATGATGACCCTCAGTCCCTGCCTGGCCCTGGGAGCACCCATCCA  
 GCAGGAGCGGACAAGCCAGTACCTCTGCCAGCACAGAGATGACAGTCAAACAAGAGAGGCTAGACTTC  
 GAGGAATCAGAAAACAAGGGCTCCATGACCTGGTGGACATCAGGGATCCGGTGTGAGATTAGGTGG  
 AACCCACAGAGCCAGAGCCAGGCATGTCTGGGCTGAGATAGTAGCTGGAGTTGGTCCAGTTCCAAGTAT  
 GGAGCCACCAGAACTCAGGAGTCAAGACTCAGATGAAGAACTAGAAGTCTGCAGCTGGAGACATTGGT  
 GAGGCAGATGGTCCAGTGGGAAAGGCGATGAGAGGCCACTTTCAGCTGTGAAGACAGAGGCATCCCTG  
 AGAGCATGTTGTCTCCATCACATGGCTCAAATCTTATTGAAGATCCTTTAGAGGCAGAGACTCAACACAA  
 GTTTGAATGTCAGACTCATTGAAAGAAGAAATCAGGGACTATTTTTGGAAGCCAGATAAAGGATGCCCA  
 GGTGACGATGAGGAAGAAGATGGAGTCAAGTGAAGCAGTAGCCTAGAGGAGCCTAAGGAAGAGGATCAAG  
 GAGAAGGCTATTTGTCTGAGATGGATAATGAGCCCTGTGAGTGAAGTGAAGTGGCTTTAGTATACA  
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 GTGTGCAGTGAAGATCAAGAAGCAATTCAGGCTCAGAAAATGGAAGAAAGCCATCATGCTTGTATGGA  
 GGGCTGCAGCAAATCATAGGTATGCCAATGTGTTCTGCAACCTGTTACAGATGACATAGCTCCTGGTTA  
 CCATAGCATTGTACAGAGGCCTATGGATTTGTCAACTATAAAGAAAAACATTGAAAATGGACTGATCCGA  
 AGCACAGCTGAGTTTCAGCGTGACATCATGCTGATGTTTCAGAATGCTGTTATGTACAATAGCTCAGACC  
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 ACAGTTGATTATGCAAACATCTGAGTCTGGAATCAGTGCTAAAAGTCTCCGGGGAGAGACTCTACCCGA  
 AAACAAGATGCTCAGAGAAGGACAGTGTCCCATGGGCTCTCCTGCCTTCTCTCTCTCTTTGATG  
 GGGGAACAGGGGACGCCGCTGTGCCATTGAAGCAGATATGAAGATGAAGAAG

**ACGGTACGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >MR231315 representing NM\_001289607  
 Red=Cloning site Green=Tags(s)

MATGTGKHKLLSTGPTEPWSIREKLCCLASSVMRSGDQNWVSVSRAIKPFAEPGRPPDWFSSQKHCASQYSE  
 LLETTETPKRKRGEKGEVVETVEDVIVRKLTAERVEELKKVIKETQERYRRLKRDAELIQAGHMDSRLDE  
 LCNDIAMKKKLEEEAEVKRKATDAAYQARQAVKTPPRRLPTVMVRSPVDSASPGGDYPLGDLTPTTME  
 ATSGVTPGTLPSTPVTSPFPGIPDTLPPGSAPLEAPMTPITDDSPQKMLGQKATPPSPLLSELLKKGSL  
 LPTSPRLVNESEMPVPPGHLNSTGVLLLEVGGVLPMIHGGEIQPTTSAVAASPAASVSQPEPCVPLEAVGD  
 PHTVTVSMDSNEISMIINSIKEECFRSGVAEAPGGSKAPSIDGKEDLDLAEKMDIAVSYTGEELDFETVG  
 DIIAIIEDKVDDHPEVLDAVAEAAALSFCEENDDPQSLPGWEHPIQQRDKPVPLPAPEMTVKQERLDF  
 EESENKGLHDLVDIRDSGVEIKVEPEPEPGMSGAEIVAGVGPVSMPEPPELRSQSDDEEPRSSAAGDIG  
 EADGSSGKDERPLSAVKTEASPESMLSPSHGSLNIEDPLEAETQHKFEMSDSLKEESGTFGSQIKDAP  
 GDDEEEDGVSEAAASLEEKEDQEGEYLSEMDNEPPVSEDDGFSIHNATLQSHTLADSIPSSPASSQFS  
 VCSEDQEA IQAQKIWKKAIMLVWRAAANHRYANVFLQPVTDDIAPGYHSIVQRPMDLSTIKKNIENGLIR  
 STAEFQRDIMLFQNAVMYNSSDHDVYHMAVEMQRDVLEQIQFLATQLIMQTSSESGISAKSLRGRDSTR  
 KQDASEKDSVPMGSPAFLLSLFDGGTRRRCIAEADMKMKK

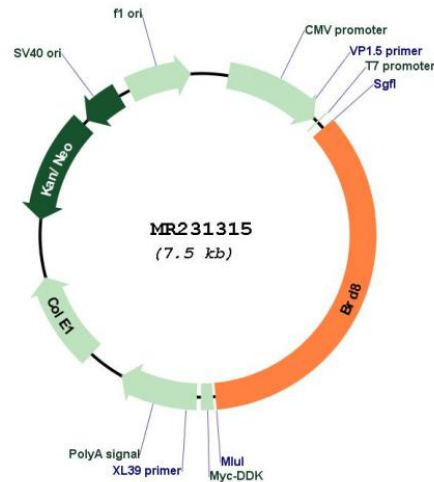
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001289607

**ORF Size:** 2643 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\\_001289607.1](#), [NP\\_001276536.1](#)

**RefSeq Size:** 4520 bp

**RefSeq ORF:** 2646 bp

**Locus ID:** 78656

**UniProt ID:** [Q8R3B7](#)

**Cytogenetics:** 18 B1

**MW:** 96.1 kDa

**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]