

Product datasheet for **MR231310**

Brd8 (NM_001289606) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Brd8 (NM_001289606) 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



[View online »](#)

ORF Nucleotide Sequence:

>MR231310 representing NM_001289606
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGACCGGGACAGGCAAGCACAAGCTGCTGAGTACTGGCCCAACAGAGCCATGGTCCATCCGAGAGA
 AGTTGTGTTTAGCATCTTCTGTCATGAGGAGTGGGGATCAGAAGTGGGTATCAGTTAGCAGAGCAATCAA
 GCCCTTTCGAGAACCTGGCCGGCCTCCAGACTGGTTCTCTCAAAAACATTGTGCTTCTCAGTATTCTGAG
 CTCTTAGAGACTACTGAGACTCCAAAACGGAAACGGGGTAAAAAGGAGAAGTGGTAGAAACTGTTGAAG
 ATGTTATTGTTTCGAAACTGACTGCTGAGAGAGTTGAAGAACTGAAGAAAGTCATAAAGGAGACACAGGA
 GAGATACAGGCGTCTGAAAAGAGATGCAGAATAATCCAAGCCGGGCACATGGACAGCAGACTGGATGAG
 CTCTGCAATGACATTGCAATGAAAAGAAATTGGAAGAGGAAGAGGCTGAAGTAAAAAGGAAGGCCACCG
 ATGCTGCGTACCAGGCGCACAAGCAGTAAAACGCCTCCTCGAAGGTTACCGACTGTGATGGTCCGCTC
 TCCTGTAGACTCTGCCTCCCAGGAGGTGATTACCCACTTGGAGACTTACTCCAACCACATGGAAGAG
 GCTACCTCTGGGGTGAATGAGAGTGAAATGCCTGTACCCCTGGCCATCTGAACAGCACAGGGGTTCTCT
 TGGAGGTAGGAGGGGTTCTCCCATGATACATGGTGGGGAGATACAGCCAACAACCAAGTGTGTGGCGGC
 CTCCCCGGCTGCCTCAGGTGCTCCCACTCTTCCCGGCTTTTAGAAGCTGGGCCACACAGTTACCACCT
 CCTCTTCTTCTTCACTACTGTTGCCAGTGAGCCGCCAGTTAAGCTTGTGCCACCCCTGTAGAGTCTG
 TGTCACAGGCTACATTGTCATGATGCCCGCGTCCAGCACCATCCTCTGCTGCGGCTGTCTCCACTTC
 TGAAAGTGGAGCTCCAGTGAGCCAGCCTGAGCCCTGTGTACCCCTGGAAGCTGTGGGGATCCACATACT
 GTGACTGTTTCCATGGATAGCAATGAAATCTCCATGATCATTAAATCCATCAAAGAAGAGTGTTCGCT
 CAGGGGTAGCAGAGGCTCCTGGTGGATCAAAGGCTCAAAGCATAGATGGGAAGGAAGACTGGATGATGC
 GGAGAAGATGGATATTGCTGTGCTTACACAGGTGAAGAGTTGGACTTTGAAACAGTTGGAGACATCATT
 GCCATCATTGAGGACAAGGTGGATGATCACCTGAAGTGTGGATGTGGCAGCGGTAGAAGCGGCTTAT
 CGTTCTGTGAAGAGAATGATGACCCTCAGTCCCTGCCTGGCCCTGGGAGCACCTATCCAGCAGGAGCG
 CGACAAGCCAGTACCTCTGCCAGCACCAGAGATGACAGTCAAACAAGAGAGGCTAGACTTCGAGGAATCA
 GAAAACAAGGGCTCCATGACCTGGTGGACATCAGGGATTCCGGTGTGAGATTAAGGTGGAACCCACAG
 AGCCAGAGCCAGGCATGTCTGGGCTGAGATAGTAGTGGAGTTGGTCCAGTTCCAAGTATGGAGCCACC
 AGAACTCAGGAGTCAAGACTCAGATGAAGAACCTAGAAGTTCTGCAGCTGGAGACATTGGTGGGCAGAT
 GGTTCAGTGGGAAAGGCGATGAGAGGCCACTTTCAGCTGTGAAGACAGAGGCATCCCCTGAGAGCATGT
 TGCTCCATCACATGGCTCAAATCTTATTGAAGATCCTTTAGAGGAGAGACTCAACACAAGTTTGAAT
 GTCAGACTCATTGAAAGAAGAATCAGGGACTATTTTTGGAAGCCAGATAAAGGATGCCCCAGGTGACGAT
 GAGGAAGAAGATGGAGTCAAGTGAAGCAGCTAGCCTAGAGGAGCCTAAGGAAGAGGATCAAGGAGAAGGCT
 ATTTGTCTGAGATGGATAATGAGCCCCCTGTGAGTGAAGTGAATGATGGCTTTAGTATACATAACGCCAC
 ACTGCAGTCACACTCTGGCAGACTCCATCCCAAGCAGCCCTGCCTCCTCCAGTTTCCGTGTGAGT
 GAAGATCAAGAAGCAATTCAGGCTCAGAAAATATGGAAGAAAGCCATCATGCTTGTATGGAGGGCTGCAG
 CAAATCATAGGTATGCCAATGTGTTCTGCAACCTGTTACAGATGACATAGCTCCTGGTTACCATAGCAT
 TGTACAGAGGCCATGGATTTGTCAACTATAAAGAAAAACATTGAAAATGGACTGATCCGAAGCACAGCT
 GAGTTTACGCGTGACATCATGCTGATGTTTCAGAATGCTGTTATGTACAATAGCTCAGACCATGATGTCT
 ATCACATGGCAGTAGAGATGCAGAGAGATGCTTGGAAACAGATCCAGCAATTTCTGGCCACACAGTTGAT
 TATGCAAACATCTGAGTCTGGAATCAGTGTAAAAGTCTCCGGGGAGAGACTCTACCCGAAAACAAGAT
 GCTTCAGAGAAGGACAGTGTCCCATGGGCTCCTCCTTCTCTCTCTCTTTGATGGGGAAACCA
 GGGGACGCCGCTGTGCCATTGAAGCAGATATGAAGATGAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231310 representing NM_001289606
 Red=Cloning site Green=Tags(s)

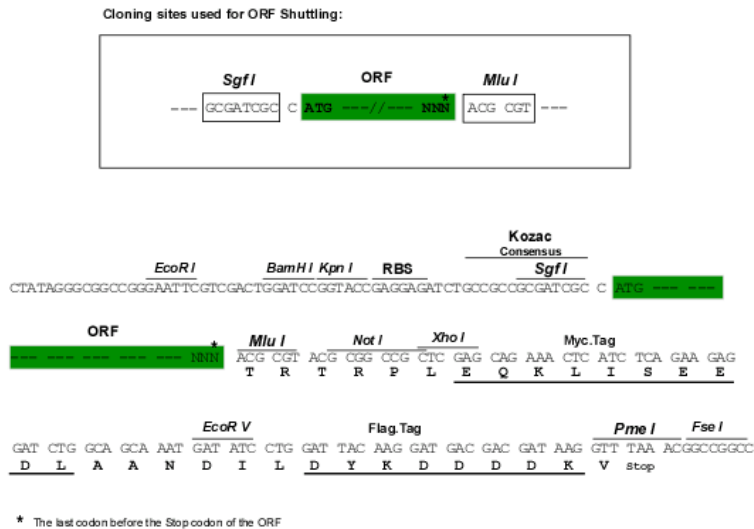
MATGTGKHKLLSTGPTEPWSIREKLCLASSVMRSGDQNWVSVSRAIKPFAEPGRPPDWFWSQKHCASQYSE
 LLETTETPKRKRGEKGEVVETVEDVIVRKLTAERVEELKKVIKETQERYRRLKRDAELIQAGHMDSRLDE
 LCNDIAMKKKLEEEAEVKRKATDAAYQARQAVKTPPRRLPTVMVRSPVDSASPGGDYPLGDLTPTTME
 ATSGVNESEMPVPPGHLNSTGVLLLEVGGVLPMIHGGEIQPTTSAVAASPAASGAPTLRLLLEAGPTQFTT
 PLPSFTTVASEPPVKLVPPPVESVSQATIVMPALPAPSSAAAVSTSESGAPVSQPEPCVPLEAVGDPHT
 VTVSMDSNEISMIINSIKEECFRSGVAEAPGGSKAPSIDGKEDLLAEKMDIAVSYTGEELDFETVGDII
 AIIEDKVDDHPEVLDVAAVEAALSFCEENDDPQSLPGPWEHPIQQERDKVPLPAPEMTVKQERLDFEES
 ENKGLHDLVDIRDSGVEIKVEPTEPEPGMSGAEIVAGVGPVPSMEPELRSQDSDEEPRSSAAGDIGEAD
 GSSGKGDERPLSAVKTEASPESMLSPSHGSLNIEDPLEAETQHKFEMSDSLKEESGTFGSIKQIKDAPGDD
 EEEDGVSEASLEEKEDQEGEYLSEMDNEPPVSESDDGFSIHNATLQSHTLADSISSPASSQFSVCS
 EDQEAIQAQKIWKKAIMLVWRAAANHRYANVFLQPVTDIAPGYHSIVQRPMDLSTIKKNIENGLIRSTA
 EFQRDIMLMFQNAVMYNSSDHDVYHMAVEMQRDVLEQIQQLATQLIMQTSSESGISAKSLRGRDSTRKQD
 ASEKDSVPMGSPAFLLSLFDGGTRGRCAIEADMKMKK

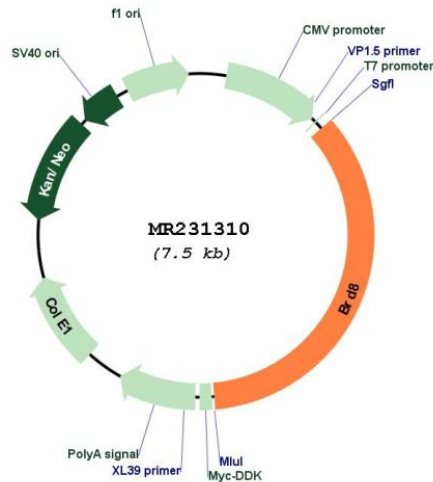
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001289606

ORF Size: 2634 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_001289606.1](#), [NP_001276535.1](#)

RefSeq Size: 4511 bp

RefSeq ORF: 2637 bp

Locus ID: 78656

UniProt ID: [Q8R3B7](#)

Cytogenetics: 18 B1

MW: 95.6 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]