

Product datasheet for **MR223690**

Brd8 (NM_030147) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Brd8 (NM_030147) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Brd8
Synonyms:	2610007E11Rik; 4432404P07Rik; SMAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223690 representing NM_030147
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGACCGGGACAGGCAAGCACAAGCTGCTGAGTACTGGCCCAACAGAGCCATGGTCCATCCGAGAGA
 AGTTGTGTTTAGCATCTTCTGTCATGAGGAGTGGGGATCAGAAGTGGGTATCAGTTAGCAGAGCAATCAA
 GCCCTTTCGAGAACCCTGGCCGGCCTCCAGACTGGTTCTCTCAAAAACATTGTGCTTCTCAGTATTCTGAG
 CTCTTAGAGACTACTGAGACTCCAAAACGGAAACGGGGTAAAAAGGAGAAGTGGTAGAAACTGTTGAAG
 ATGTTATTGTTTCGAAACTGACTGCTGAGAGAGTTGAAGAACTGAAGAAAGTCATAAAGGAGACACAGGA
 GAGATACAGGCGTCTGAAAAGAGATGCAGAATAATCCAAGCCGGGCACATGGACAGCAGACTGGATGAG
 CTCTGCAATGACATTGCAATGAAAAGAAATTGGAAGAGGAAGAGGCTGAAGTAAAAAGGAAGGCCACCG
 ATGCTGCGTACCAGGCGGACAAGCAGTAAAACGCCTCCTCGAAGGTTACCGACTGTGATGGTCCGCTC
 TCCTGTAGACTCTGCCTCCCAGGAGGTGATTACCCACTTGGAGACTTACTCCAACCACATGGAAGAG
 GCTACCTCTGGGGTAACCCCTGGGACTTTGCCGAGTACCCAGTACCTCGTTTCTGGGATTCTTGACA
 CCCTTCTCCAGGCTCTGCACCCTTAGAAGCCCCATGACCCCAATAACAGATGATTACCCAGAAAAA
 GATGCTTGGACAGAAAGCAACTCCACCCCTCCCTCTGCTGTGACAGCTCTTGAAGAAGGGCAGCCCTC
 CTGCCTACTAGCCCAGACTGGTGAATGAGAGTGAATGCCTGTACCCCTGGCCATCTGAACAGCACAG
 GGGTCTCTTGGAGGTAGGAGGGGTTCTCCCATGATACATGGTGGGAGATACAGCCAACAACCAAGTGC
 TGTGGCGGCTCCCGGCTGCCTCAGGTGCTCCACTCTTCCCGGCTTTTAGAAGCTGGGCCACACAG
 TTCACCACTCCTCTTCTTCTTCACTACTGTTGCCAGTGAAGCCAGTTAAGCTTGTGCCACCCCTGT
 TAGACTGTGTCCCAGGCTACCAATGTATGATGCCCGGCTGCCAGCACCACTCTGCTGGCGGTG
 CTCACCTTCTGAAAGTGGAGCTCCAGTGAGCCAGCCTGAGCCCTGTGTACCCCTGGAAGCTGTGGGGAT
 CCACATACTGTGACTGTTTCCATGGATAGCAATGAAATCTCCATGATCATTAAATCCATCAAGAAGAGT
 GTTCCGCTCAGGGGTAGCAGAGGCTCCTGGTGGATCAAAGGCTCCAAGCATAGATGGGAAGGAAGACTT
 GGATCTAGCGGAGAAGATGGATATTGCTGTGCTTACACAGGTGAAGAGTTGGACTTTGAAACAGTTGGA
 GACATCATTGCCATCATTGAGGACAAGGTGGATGATCACCTGAAGTGTGGATGTGGCAGCGGTAGAAG
 CGGCGTTATCGTTCTGTGAAGAGAATGATGACCCTCAGTCCCTGCCTGGCCCTGGGAGCACCTATCCA
 GCAGGAGCGGACAAGCCAGTACCTCTGCCAGCACCAGAGATGACAGTCAAACAAGAGAGGCTAGACTTC
 GAGGAATCAGAAAACAAGGGCTCCATGACCTGGTGGACATCAGGGATTCCGGTGTGAGATTAAGTGG
 AACCCACAGAGCCAGAGCCAGGCATGTCTGGGGCTGAGATAGTAGCTGGAGTTGGTCCAGTTCCAAGTAT
 GGAGCCACCAGAACTCAGGAGTCAAGACTCAGATGAAGAACCTAGAAGTTCTGCAGCTGGAGACATTGGT
 GAGGCAGATGGTCCAGTGGGAAAGGCGATGAGAGGCCACTTTCAGCTGTGAAGACAGAGGCATCCCTG
 AGAGCATGTTGTCTCCATCACATGGCTCAAATCTTATTGAAGATCCTTTAGAGGCAGAGACTCAACACAA
 GTTTGAAATGTCAGACTCATTGAAAGAAGAATCAGGGACTATTTTTGGAAGCCAGATAAAGGATGCCCA
 GGTGACGATGAGGAAGAAGATGGAGTCAGTGAAGCAGCTAGCCTAGAGGAGCCTAAGGAAGAGGATCAAG
 GAGAAGGCTATTTGTCTGAGATGGATAATGAGCCCCCTGTGAGTGAAGTGTGATGGCTTTAGTATACA
 TAACGCCACACTGCAGTACACACTCTGGCAGACTCCATCCCAAGCAGCCCTGCCTCCTCCAGTTTTCC
 GTGTGCAGTGAAGATCAAGAAGCAATTCAGGCTCAGAAAATATGGAAGAAAGCCATCATGCTTGTATGGA
 GGGCTGCAGCAAATCATAGGTATGCCAATGTGTTCTGCAACCTGTTACAGATGACATAGCTCCTGGTTA
 CCATAGCATTGTACAGAGGCTATGGATTTGTCAACTATAAAGAAAAACATTGAAAATGGACTGATCCGA
 AGCACAGCTGAGTTTCAGCGTGACATCATGCTGATGTTTCAGAATGCTGTTATGTACAATAGCTCAGACC
 ATGATGTCTATCACATGGCAGTAGAGATGCAGAGAGATGTCTTGGAACAGATCCAGCAATTCTTGGCCAC
 ACAGTTGATTATGCAAACATCTGAGTCTGGAATCAGTGTAAAAGTCTCCGGGGGAGAGACTCTACCCGA
 AAACAAGATGCTTCAGAGAAGGACAGTGTCCCATGGGCTCTCCTGCCTTCTTCTCTCTCTTTGATG
 GGGGAACAGGGGACGCCCTGTGCCATTGAAGCAGATATGAAGATGAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223690 representing NM_030147
 Red=Cloning site Green=Tags(s)

MATGTGKHKLLSTGPTEPWSIREKLCLASSVMRSGDQNWVSVSRAIKPFAEPGRPPDWFSSQKHCASQYSE
 LLETTETPKRKRGEKGEVVETVEDVIVRKLTAERVEELKKVIKETQERYRRLKRDAELIQAGHMDSRLDE
 LCNDIAMKKKLEEEAEVKRKATDAAYQARQAVKTPRRLPTVMVRSPVDSASPGGDYPLGDLTPTTMEE
 ATSGVTPGTLPTSPVTSFPGIPDTLPPGSAPLEAPMTPITDDSPQKMLGQKATPPPSPLLSELLKKGSL
 LPTSPRLVNESEMPVPPGHLNSTGVLLLEVGGVLPMIHGGEIQPTTSAVAASPAASGAPTLRLLLEAGPTQ
 FTTPLPSFTTVAEPPVKLVPPPVESVSQATIVMMPALPAPSSAAAVSTSESGAPVVSQPEPCVPLEAVGD
 PHTVTVMDSNEISMIINSIKEECFRSGVAEAPGGSKAPSIDGKEDLDAEKMDIAVSYTGEELDFETVG
 DIIAIIEDKVDDHPEVLDAAVEAALSFCEENDDPQSLPGWEHPIQQERDKPVPLPAPEMTVKQERLDF
 EESENKGLHDLVDIRDGVEIKVEPTEPEPGMSGAEIVAGVGPVPSMEPPELRSQDSDEEPRSSAAGDIG
 EADGSSGKGDRLPLSAVKTEASPESMLSPSHGSLNIEDPLEAETQHKFEMSDSLKEESGTFGSGIKDAP
 GDDEEEDGVSEAAASLEEKEDQGEGLSEMDNEPPVSESDDGFSIHNATLQSHLADSISSPASSQFS
 VCESDQEA IQAQKIWKKAIMLVWRAAANHRYANVFLQPVTDDIAPGYHSIVQRPMDLSTIKKNIENGLIR
 STAEFQRDIMLFQNAVMYNSSDHDVYHMAVEMQRDVLEQIQFLATQLIMQTSSESGISAKSLRGRDSTR
 KQDASEKDSVPMGSPAFLLSLFDGGTRRRCAIEADMKMKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1790_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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](#)

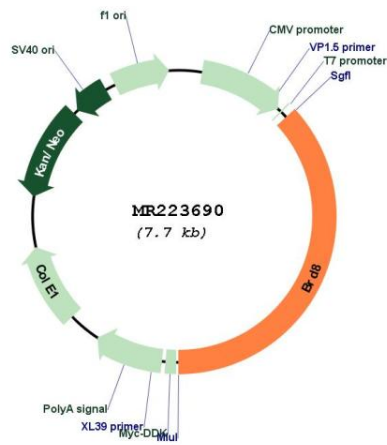
Cytogenetics: 18 B1

MW: 103.1 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 THR/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]

Product images:



Circular map for MR223690