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Product datasheet for MC229099

Brd8 (NM_001289606) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Brd8 (NM_001289606) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF:

>MC229099 representing NM_001289606
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGACCGGGACAGGCAAGCACAAGCTGCTGAGTACTGGCCCAACAGAGCCATGGTCCATCCGAGAGA
AGTTGTGTTTAGCATCTTCTGTCATGAGGAGTGGGGATCAGAACTGGGTATCAGTTAGCAGAGCAATCAA
GCCCTTTGCAGAACCTGGCCGGCCTCCAGACTGGTTCTCTCAAAAACATTGTGCTTCTCAGTATTCTGAG
CTCTTAGAGACTACTGAGACTCCAAAACGGAAACGGGGTGAAAAAGGAGAAGTGGTAGAAACTGTTGAAG
ATGTTATTGTTCGCAAACTGACTGCTGAGAGAGTTGAAGAACTGAAGAAAGTCATAAAGGAGACACAGGA
GAGATACAGGCGTCTGAAAAGAGATGCAGAACTAATCCAAGCCGGGCACATGGACAGCAGACTGGATGAG
CTCTGCAATGACATTGCAATGAAAAAGAAATTGGAAGAGGAAGAGGCTGAAGTAAAAAGGAAGGCCACCG
ATGCTGCGTACCAGGCGCGACAAGCAGTGAAAACGCCTCCTCGAAGGTTACCGACTGTGATGGTCCGCTC
TCCTGTAGACTCTGCCTCCCCAGGAGGTGATTACCCACTTGGAGACTTGACTCCAACCACTATGGAAGAG
GCTACCTCTGGGGTGAATGAGAGTGAAATGCCTGTACCCCCTGGCCATCTGAACAGCACAGGGGTTCTCT
TGGAGGTAGGAGGGGTTCTTCCCATGATACATGGTGGGGAGATACAGCCAACAACCAGTGCTGTGGCGGC
CTCCCCGGCTGCCTCAGGTGCTCCCACTCTTTCCCGGCTTTTAGAAGCTGGGCCCACACAGTTCACCACT
CCTCTTCCTTCCTTCACTACTGTTGCCAGTGAGCCGCCAGTTAAGCTTGTGCCACCCCCTGTAGAGTCTG
TGTCCCAGGCTACCATTGTCATGATGCCCGCGCTGCCAGCACCATCCTCTGCTGCGGCTGTCTCCACTTC
TGAAAGTGGAGCTCCAGTGAGCCAGCCTGAGCCCTGTGTACCCCTGGAAGCTGTGGGGGATCCACATACT
GTGACTGTTTCCATGGATAGCAATGAAATCTCCATGATCATTAATTCCATCAAAGAAGAGTGTTTCCGCT
CAGGGGTAGCAGAGGCTCCTGGTGGATCAAAGGCTCCAAGCATAGATGGGAAGGAAGACTTGGATCTAGC
GGAGAAGATGGATATTGCTGTGTCTTACACAGGTGAAGAGTTGGACTTTGAAACAGTTGGAGACATCATT
GCCATCATTGAGGACAAGGTGGATGATCACCCTGAAGTGCTGGATGTGGCAGCGGTAGAAGCGGCGTTAT
CGTTCTGTGAAGAGAATGATGACCCTCAGTCCCTGCCTGGCCCCTGGGAGCACCCTATCCAGCAGGAGCG
CGACAAGCCAGTACCTCTGCCAGCACCAGAGATGACAGTCAAACAAGAGAGGCTAGACTTCGAGGAATCA
GAAAACAAAGGGCTCCATGACCTGGTGGACATCAGGGATTCCGGTGTTGAGATTAAGGTGGAACCCACAG
AGCCAGAGCCAGGCATGTCTGGGGCTGAGATAGTAGCTGGAGTTGGTCCAGTTCCAAGTATGGAGCCACC
AGAACTCAGGAGTCAAGACTCAGATGAAGAACCTAGAAGTTCTGCAGCTGGAGACATTGGTGAGGCAGAT
GGTTCCAGTGGGAAAGGCGATGAGAGGCCACTTTCAGCTGTGAAGACAGAGGCATCCCCTGAGAGCATGT
TGTCTCCATCACATGGCTCAAATCTTATTGAAGATCCTTTAGAGGCAGAGACTCAACACAAGTTTGAAAT
GTCAGACTCATTGAAAGAAGAATCAGGGACTATTTTTGGAAGCCAGATAAAGGATGCCCCAGGTGACGAT
GAGGAAGAAGATGGAGTCAGTGAAGCAGCTAGCCTAGAGGAGCCTAAGGAAGAGGATCAAGGAGAAGGCT
ATTTGTCTGAGATGGATAATGAGCCCCCTGTGAGTGAGAGTGATGATGGCTTTAGTATACATAACGCCAC
ACTGCAGTCACACACTCTGGCAGACTCCATCCCAAGCAGCCCTGCCTCCTCCCAGTTTTCCGTGTGCAGT
GAAGATCAAGAAGCAATTCAGGCTCAGAAAATATGGAAGAAAGCCATCATGCTTGTATGGAGGGCTGCAG
CAAATCATAGGTATGCCAATGTGTTCCTGCAACCTGTTACAGATGACATAGCTCCTGGTTACCATAGCAT
TGTACAGAGGCCTATGGATTTGTCAACTATAAAGAAAAACATTGAAAATGGACTGATCCGAAGCACAGCT
GAGTTTCAGCGTGACATCATGCTGATGTTTCAGAATGCTGTTATGTACAATAGCTCAGACCATGATGTCT
ATCACATGGCAGTAGAGATGCAGAGAGATGTCTTGGAACAGATCCAGCAATTCTTGGCCACACAGTTGAT
TATGCAAACATCTGAGTCTGGAATCAGTGCTAAAAGTCTCCGGGGGAGAGACTCTACCCGAAAACAAGAT
GCTTCAGAGAAGGACAGTGTCCCCATGGGCTCTCCTGCCTTCCTTCTCTCTCTCTTTGATGGGGGAACCA
GGGGACGCCGCTGTGCCATTGAAGCAGATATGAAGATGAAGAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001289606

Insert Size: 2637 bp

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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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
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] Transcript Variant: This variant (2) lacks an alternate in-frame exon in the coding region, compared to variant 1. This results in a shorter isoform (2), compared to isoform 1.

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