

Product datasheet for **MC229104**

Brd8 (NM_001289607) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC229104 representing NM_001289607
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGACCGGGACAGGCAAGCACAAGCTGCTGAGTACTGGCCCAACAGAGCCATGGTCCATCCGAGAGA
 AGTTGTGTTTAGCATCTTCTGTCATGAGGAGTGGGGATCAGAAGTGGGTATCAGTTAGCAGAGCAATCAA
 GCCCTTTCGAGAACCCTGGCCGGCCTCCAGACTGGTTCTCTCAAAAACATTGTGCTTCTCAGTATTCTGAG
 CTCTTAGAGACTACTGAGACTCCAAAACGGAAACGGGGTAAAAAGGAGAAGTGGTAGAAACTGTTGAAG
 ATGTTATTGTTTCGAAACTGACTGCTGAGAGAGTTGAAGAACTGAAGAAAGTCATAAAGGAGACACAGGA
 GAGATACAGGCGTCTGAAAAGAGATGCAGAATAATCCAAGCCGGGCACATGGACAGCAGACTGGATGAG
 CTCTGCAATGACATTGCAATGAAAAGAAATTGGAAGAGGAAGAGGCTGAAGTAAAAAGGAAGGCCACCG
 ATGCTGCGTACCAGGCGGACAAGCAGTAAAACGCCCTCCTCGAAGGTTACCGACTGTGATGGTCCGCTC
 TCCTGTAGACTCTGCCTCCCAGGAGGTGATTACCCACTTGGAGACTTACTCCAACCACATGGAAGAG
 GCTACCTCTGGGGTAACCCCTGGGACTTTGCCGAGTACCCAGTACCTCGTTTCTGGGATTCTTGACA
 CCCTTCTCCAGGCTCTGCACCCTTAGAAGCCCCATGACCCCAATAACAGATGATTACCCAGAAAAA
 GATGCTTGGACAGAAAGCAACTCCACCCCTCCCTCTGCTGTGACAGCTCTTGAAGAAGGGCAGCCCTC
 CTGCCTACTAGCCCAGACTGGTGAATGAGAGTGAATGCCTGTACCCCTGGCCATCTGAACAGCACAG
 GGGTCTCTTGGAGGTAGGAGGGGTTCTCCCATGATACATGGTGGGAGATACAGCCAACAACCAAGTGC
 TGTGGCGGCTCCCGGCTGCCTCAGTGAGCCAGCCTGAGCCCTGTGTACCCCTGGAAGCTGTGGGGAT
 CCACATACTGTGACTGTTCCATGGATAGCAATGAAATCTCCATGATCATTAAATCCATCAAAGAAGAGT
 GTTCCGCTCAGGGGTAGCAGAGGCTCCTGGTGGATCAAAGGCTCCAAGCATAGATGGGAAGGAAGACTT
 GGATCTAGCGGAGAAGATGGATATTGCTGTCTTACACAGGTGAAGAGTTGGACTTTGAAACAGTTGGA
 GACATCATTGCCATCATTGAGGACAAGGTGGATGATCACCTGAAGTGGTGGATGTGGCAGCGGTAGAAG
 CGGCGTTATCGTTCTGTGAAGAGAATGATGACCCTCAGTCCCTGCCTGGCCCTGGGAGCACCCATCCA
 GCAGGAGCGGACAAGCCAGTACCTCTGCCAGCACAGAGATGACAGTCAAACAAGAGAGGCTAGACTTC
 GAGGAATCAGAAAACAAGGGCTCCATGACCTGGTGGACATCAGGGATCCGGTGTGAGATTAGGTGG
 AACCCACAGAGCCAGAGCCAGGCATGTCTGGGCTGAGATAGTAGCTGGAGTTGGTCCAGTTCCAAGTAT
 GGAGCCACCAGAACTCAGGAGTCAAGACTCAGATGAAGAACCTAGAAGTCTGCAGCTGGAGACATTGGT
 GAGGCAGATGGTCCAGTGGGAAAGGCGATGAGAGGCCACTTTCAGCTGTGAAGACAGAGGCATCCCTG
 AGAGCATGTTGTCTCCATCACATGGCTCAAATCTTATTGAAGATCCTTTAGAGGCCAGAGACTCAACACAA
 GTTTGAAATGTCAGACTCATTGAAAGAAGAATCAGGGACTATTTTTGGAAGCCAGATAAAGGATGCCCA
 GGTGACGATGAGGAAGAAGATGGAGTCAAGTGAAGCAGCTAGCCTAGAGGAGCCTAAGGAAGAGGATCAAG
 GAGAAGGCTATTTGTCTGAGATGGATAATGAGCCCTGTGAGTGAAGTGAAGTGGCTTTAGTATACA
 TAACGCCACACTGCAGTCAACACTCTGGCAGACTCCATCCCAAGCAGCCCTGCCTCCTCCAGTTTTCC
 GTGTGCAGTGAAGATCAAGAAGCAATTCAGGCTCAGAAAATATGGAAGAAAGCCATCATGCTTGTATGGA
 GGGCTGCAGCAAATCATAGGTATGCCAATGTGTTCCCTGCAACCTGTTACAGATGACATAGCTCCTGGTGA
 CCATAGCATTGTACAGAGGCCTATGGATTTGTCAACTATAAAGAAAAACATTGAAAATGGACTGATCCGA
 AGCACAGCTGAGTTTCAGCGTGACATCATGCTGATGTTTCAGAATGCTGTTATGTACAATAGCTCAGACC
 ATGATGTCTATCATAGCAGTGAAGATGACAGAGAGATGCTTGGAACAGATCCAGCAATCTTGGCCAC
 ACAGTTGATTATGCAAACATCTGAGTCTGGAATCAGTGTAAAAGTCTCCGGGGAGAGACTCTACCCGA
 AAACAAGATGCTTACAGAGAAGGACAGTGTCCCATGGGCTCTCCTGCCTTCTTCTCTCTCTTTGATG
 GGGGAACAGGGGACGCCCTGTGCCATTGAAGCAGATATGAAGATGAAGAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001289607

Insert Size:	2646 bp
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:	<ol style="list-style-type: none">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:	<u>NM_001289607.1</u> , <u>NP_001276536.1</u>
RefSeq Size:	4520 bp
RefSeq ORF:	2646 bp
Locus ID:	78656
UniProt ID:	<u>Q8R3B7</u>
Cytogenetics:	18 B1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks an alternate in-frame exon in the coding region, compared to variant 1. This results in a shorter isoform (3), compared to isoform 1.</p>