

Product datasheet for **MC223896**

Brd1 (NM_001033274) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Brd1 (NM_001033274) Mouse Untagged Clone
Tag: Tag Free
Symbol: Brd1
Synonyms: 1110059H06Rik; AI316859; mKIAA4191
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223896 representing NM_001033274
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGGAGAAAGGACGATGCCATCGAGGTTCTGCAGCGAGGCATCCTTCTTCCCCTGTCAGTATTAAC
ACTCCCCACTCGAGAACTGACCTACGCACAAGCTCAAAGGATGGTGGAGATAGAAATCGAAGGGCG
CTTGCATCGGATCAGTATTTTTGATCCCTTGGAGATCATACTAGAAGATGACCTACTGCTCAGGAAATG
AGTGAATGTAACAGTAATAAGGAGAACAGCGAGAGGCCGCTGTTTGCTTAAGAAGTAAAGCGTCACAAAA
ACAACAGAGTCAAAAAGAAAAATGAAGTCTGCCAGCACCCACGGCACACCGGGCTCAGCCAGTGCCTT
TCCCGAGCCCAAGGTGCGGATTGTGGAGTACAGTCCCTCCTGTCACCCAGGAGGCCCTGTGTACTAC
AAGTTCATCGAGAAGTCAGCCGAGGAGCTGGACAACGAGGTAGAGTACGACATGGATGAGGAAGACTACG
CCTGGCTAGAGATCATCAATGAGAAGCGGAAGGGTACTGCGTCTCTGCCGTGTCACAGAATATGTTTGA
GTTCTGATGGACCGCTTCGAGAAGGAGTCTTACTGTGAGAACCAGAAGCAGGGTGAAGCAGCAGTCTTG
ATAGATGAGGACGCTGTTTGTGTCATCTGCATGGACGGGAGTGCCAGAACAGCAACGTTATACTCTTCT
GTGACATGTGCAACCTGGCTGTGCACCAGGAGTGTATGGGGTACCCTACATCCCCGAGGGCCAGTGGCT
TTGCCGCCACTGCCTGCAGTCTCGGGCCCGCCCTGCGGATTGCGTGTGTCGCCGAATAAGGGCGGTGCC
TTCAAAAAGACAGACGATGACCGCTGGGGCCACGTGGTATGTGCCTGTGGATCCAGAGGTTGGCTTTG
CCAACACGGTATTCATTGAGCCATTGACGGTGTGAGGAACATCCCTCCTGCCCGGTGAAAAGTACATG
CTACCTCTGTAAGCAGAAAGGCGTGGGTGCCTGCATTCAGTGCCACAAAGCAAATGCTACACAGCATT
CATGTGACATGTGCCAGAAAGGCTGGCCTATACATGAAGATGGAGCCTGTGAAGGAGCTGACTGGAGGCA
GCGCCACGTTCTCTGTCAGAAAGACTGCTTACTGTGATGTCCACACGCCTCCAGGCTGTACCCGGAGGCC
GTTGAACATTTATGGAGATGTTGAAATGAAAAATGGTGTGTGCGAAAAGAAAGCTCAGTCAAAACGGTC
AGGTCTACGTCCAAGGTCAGGAAAAAGCAAAAAGGCTAAGAAAACACTGGCTGAGCCCTGTGCGGTCC
TGCCGACCGTGTGCGCTCCGTATATCCCCCTCAGAGATTAATAGGATTGCGAATCAGGTGGCCATTCA
GCGGAAGAAGCAGTTTGTGGAGCGAGCCACAGCTACTGGTTGCTCAAAAAGGCTGTCTAGGAATGGTGTCT
CCCTGTTGCGGCGGCTCCAGTCCAGCCTGCAGTCCCAGAGAAACACGCAGCAGAGAGAAAATGATGAAG



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AGATGAAAGCTGCCAAAGAGAAGCTAAAGTACTGGCAGCGGCTGCGACATGACCTAGAGCGTGCACGCCT
GCTAATTGAGCTGCTGCGCAAGCGGGAGAACTCAAGAGAGAGCAGGTGAAGGTGGAGCAGATGGCTATG
GAGCTCCGGCTGACGCCGCTAACTGTGCTGCTACGCTCAGTCTGGAGCAGCTACAGGAGAAGGACCCTG
CAAAGATCTTTGCCAGCCCGTGAAGTCTCAAGGAGGTACCAGATTATTTGGATCACATTAACACCCCAT
GGACTTTGCTACAATGAGGAAACGGCTAGAAGCTCAAGGGTATAAAAACCTCCATGCCTTTGAGGAGGAT
TTAATCTCATTGTAGATAAAGTCAATGCAATGCAAGGACACCGTGTATATAGAGCTGCAGTGA
GGCTGCGCGACCAGGGAGGGTGTCTGAGGCAGGCCCGGCGAGAGGTGGAGAGCATTGGCCTGGAAGA
GGCCTCGGAATGCACCTGCCTGAGCGACCCATCGCAGCCCTCGGCGGCCCTTCTCCTGGGAAGAGGTG
GACAGGTTGCTGGACCCAGCCAACAGGGCCACATGAGCTTGGAGGAGCAGCTGAGAGAACTTCTGGACA
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GGCTTTGAAGATGAGGCTGCTCCACTGGCCCCGACACAGCGGAGGAAGGAGCTAACTCTCCCCCTAAAC
TTGAACCATCAGATGCATTACCTCTTCTTCAAACCTGGAGACTAACTCAGAACCACCAACCCTCAACCC
AGTAGAACTCCACCCGAGCAGAGTAACTATTCAAAGAGTACATTTGATAATGAATCATATAGCACT
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CGCGCGGCCCTCCGAGTGGCGGAGCCATCAAGCGATGTAACAGACGCACTTCTGTTCTTCTTGCAA
ATCGAAAAGTGTAAAGCCCCAAAGTCTGCCAAGAACACTGAAACCCAGCCAACCTTCTCCTCAGTAGGG
ACCAAAACCTTTTTGTCTGTAGTCTTCCGAGGTTGGAGACTCTACTGCAGCCAAGGAAAAGGTCGAGGA
GCACATGTGGAGACTCCGAAGTGGAGGAGGAGTCCCCGGGAAAGCGCCTGGACACAGGTCTACCAATGG
CTTTGGGGTGCTAGAAGCGAACAGGAGCCAGGAGGGGGCCAGGGAGGAAAGCTGCGCCCCGGCGCGC
TGTGCATCTGAATCCAGTATTTGTTCCAGCAACAGCCACTCTGCGACTCAAGCTTAGCACACCCAAGT
GTGGCGAGGGAAACCTGCCCTGTGCGAAGGCACACGCTAGAAGACCGAAGCGAGCTGATATCTTGAT
TGAAAATGGAAACTACGCTAAGGCGGCCAGGATTGCAGCTGAGGTGGGCCAGAGCAACATGTGGATTCC
ACTGACGCTGCTGCCTCCGTCTGGAGCCCTGAAGGTGGTATGGGCCAAGTGCAGCGGCTACCCCTCCT
ACCCAGCACTGATTATTGACCCCAAGATGCCACGAGTGCCTGGCCACCACAATGGCGTACCATCCCTGC
GCCCGCTGGATGTGCTGAAGATCGGTGAACACATGCAGACCAAGTCCGAGGAGAAGCTTCTCCTGTT
CTGTTTTTCGACAATAAGAGGAGCTGGCAGTGGCTTCCAAGTCCAAGATGGTCCCTTGGTGTGACG
AGACCATCGACAAGTTGAAAATGATGGAAGGGAGGAACTTAGCATCCGGAAGGCTGTGCGGATTGCATT
TGATCGAGCCATGAATCATCTGAGCCGGTCCATGGGGAGCCAGCCAGTACCTCAGTGACATTGACTGA

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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001033274
- Insert Size:** 3570 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).
- 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_001033274.3](#), [NP_001028446.2](#)

RefSeq Size: 5137 bp

RefSeq ORF: 3570 bp

Locus ID: 223770

Cytogenetics: 15 E3

Gene Summary: Scaffold subunit of various histone acetyltransferase (HAT) complexes, such as the MOZ/MORF and HBO1 complexes, that acts as a regulator of hematopoiesis (PubMed:21753189). Plays a key role in HBO1 complex by directing KAT7/HBO1 specificity towards histone H3 'Lys-14' acetylation (H3K14ac), thereby promoting erythroid differentiation (PubMed:21753189).[UniProtKB/Swiss-Prot Function]