

Product datasheet for **MG223380**

Brd4 (NM_198094) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Brd4 (NM_198094) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Brd4
Synonyms:	Brd5; HUNK1; MCAP; WI-11513
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223380 representing NM_198094
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTACGGAGAGCGGCCCTGGGACAAGATTGAGAAATCTGCCAGTAATGGGGATGGACTAGAAACCT
 CCCAAATGTCTACAACGCAGGCCAGGCCAACCCAGCCAGCAAATGCAGCCAGCACCAATCCTCCACC
 CCCAGAGACCTCCAACCCTAACAAAGCCCAAGAGACAGACAAACCAACTGCAATATCTGCTCAGAGTGGTG
 CTCAAGACACTATGGAACACCAGTTTGCCTGGCCTTTCCAGCAGCCCGTGGATGCCGTCAAGCTGAACC
 TCCCTGATTACTATAAGATTATTAACACCCATGGATATGGGAACAATAAAGAAGCGCTTGAAAAACA
 CTATTACTGGAATGCTCAGGAATGTATCCAGGACTTCAACTATGTTTACAAATGTTACATCTATAAC
 AAGCTGGAGATGACATCGTCTAATGGCAGAAGCTCTGGAGAAGCTCTTCTGCAAAAAATCAATGAAC
 TGCCTACAGAAGAACTGAGATCATGATAGTCCAGGCAAAAGGAGAGGACGAGGGAGGAAAGAAACAGG
 GGCAGCAAAGCCTGGTGTATCCACGGTACCAACACAACCTCAAGCATCAACTTCTCCGCAGACCCAGACG
 CCTCAGCAGAACCCTCCTCCACCTGTGCAGGCCACAACCTACCCCTTTCTGCTGTACCCAGACCTCA
 TTGCCAGCCTCCTGTCATGACAATGGTGCCCTCAGCCACTTCAGACTCCTTACCCGGTACCCCCCA
 GCCACCACCCCACTGTCCAGTTCACAGCCTGTGCAGAGTACCCCGCCATCATTGCGACCACCCCA
 CAGCCTGTGAAGACAAAGAAAGGGTGAAGAGGAAAGCAGATACCACCACCCCTACCACCATCGACCCCA
 TTCATGAGCCACCCCTCACTGGCCCCAGAGCCCAAGACCGCAAGCTGGGTCTCGGCGGGAGAGCAGCAG
 ACCTGTGAAGCCTCCAAGAAGGATGTACCGGACTCACAGCAGCACCAGGGCCAGAGAAGAGCAGCAAG
 ATCTCTGAGCAGTAAAGTGTGTCAGTGGCATCCTCAAGGAGATGTTTGCCAAGAAACATGCTGCCTATG
 CCTGGCCTTTCTACAAGCCTGTGGATGTGGAGGCACTGGGTCTGCACGACTACTGTGACATCATCAACA
 TCCCATGGACATGAGCACAATCAAGTCTAACTAGAGTCCCGAGAGTACAGAGATGCCAGGAATTTGGT
 GCTGATGTCGATTGATGTTCTCCAAGTCTACAAGTACAACCCCTGACCATGAAGTGGTAGCCATGG
 CTCGAAAACCTCAGGATGTGTTTGAATGCGCTTTGCCAAGATGCCTGATGAGCCTGAAGAGCCAGTTGT
 TACAGTGTCTCTCCTGCAGTGCCACCCCTACAAAGTGGTAGCCCAACCTCATCTAGTGACAGCAGC
 AGCGACAGTTCTCCGACAGCGACAGTTCCACTGACGACTCTGAGGAAGAGCGAGCCAGCGGCTGGCTG
 AACTCCAGGAACAGCTCAAGGCCGTGCATGAGCAGCTTGCAGCCCTCTCACAGCCCCAGCAGAACAAC
 AAAGAAAAGGAGAAGGACAAGAAGGAAAAGAAAAGGAAAAGCAGAAAAGAAAGAAAGTGGAGGAA
 AATAAAAAAGCAAAACCAAGGAATCTCTCCAAAAGACAAAAGAAAATAACAGCAGCAACAGCAATG
 TGAGCAAGAAGGAACCAGTACCCACGAAGCAAGCCGCTCCACATATGAATCAGAAGAGGAGGATAA
 GTGTAAGCCCATGCTTATGAGGAGAAGCGGCAGCTAAGTCTAGATATCAACAAACTTCTGGTGAGAAG
 TTAGGCCGTGTAGTACACATAATTCAGTCAAGGGAACCATCACTTAAAACTCCAACCCGATGAGATTG
 AGATTGACTTTGAGACCCCTGAAGCCATCTACACTACGAGAGTTGGAGCGATATGTCACCTCCTGTTGCG
 GAAGAAAAGGAAACCTCAAGCTGAAAAGTTGACGTGATTGCTGGTCTTCCAAGATGAAGGATTCTCA
 TCCTCTGAGTCGGAGAGCACCAGCGAATCCAGCTCCTCTGACAGTGAAGACTCTGAAACAGGTCCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG223380 representing NM_198094
 Red=Cloning site Green=Tags(s)

MSTESGPGTRLRNLVPMGDGLETSMSTTQAQAQPANAASTNPPPPETSNPNKPKRQTNLQYLLRVV
 LKTLWKHQFAWPFQQPVDAVKLNLPDYYKIIKTPMDMGTIKKRLNENNYWNAQECIQDFNTMFTNCYIYN
 KPGDDIVLMAEALFKLFLQKINELPTEETEIMIVQAKGRGRGRKETGAAKPGVSTVPNTTQASTSPQTQT
 PQQNPPPPVQATTHPFAVTPDLIAQPPVMTMVPPLQTPSPVPPQPPPPAPVPVQSHPPPIATTP
 QPVKTKKGVKRAADTTTPTTIDPIHEPPSLAPEPKTAKLGPRRESSRPVKPPKDVPSQQHPGPEKSSK
 ISEQLKCCSGILKEMFAKHAAYAWPFYKPVDEALGLHDYCDIIKHPMDMSTIKSKLESREYRDAQEFG
 ADVRLMFSNCKYKYNPPDHEVVAMARKLQDVFEMRFKMPDEPEEPVTVSSPAVPPPTKVVAPSSSDSS
 SDSSSDSSDSDDDSEERAQRLAELQEQLKAVHEQLAALSQPQQNKPKKKEKDKKEKKEKHKKEEVEE
 NKKSKTKELPPKTKKNNSSNSNVSKKEPVPTTKPPPTYESEEDKCKPMSYEEKRQLSLDINKLPGEK
 LGRVVHIIQSREPSLKNSNPDEIEIDFETLKPSTLRELERYVTSCLRKKRKPQAEKVDVIAGSSKMKGFS
 SSESESTSESSSSDSESETGPA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198094

ORF Size: 2169 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_198094.2](#), [NP_932762.2](#)

RefSeq Size: 2731 bp

RefSeq ORF: 2172 bp

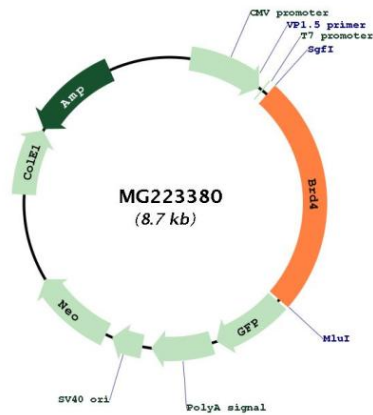
Locus ID: 57261

UniProt ID: [Q9ESU6](#)

Cytogenetics: 17 17.39 cM

Gene Summary: This gene was temporarily named bromodomain-containing 5 (Brd5) and was renamed bromodomain-containing 4 (Brd4). [provided by RefSeq, Jul 2008]

Product images:



Circular map for MG223380