

Product datasheet for **MR224116**

Brdt (NM_001079873) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Brdt (NM_001079873) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Brdt
Synonyms: 7420412D09Rik; Brd; Brd6; Fsr; Fsr3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR224116 representing NM_001079873
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTCTGCCAAGTCGACAAACAGCTATTGTTAACCCCTCCACCAGAGTACATAAACACTAAGAAGA
GTGGGCGGTTGACGAATCAGCTGCAGTTCCTACAGAGGTTGTGCTGAAGGCCCTGTGGAAGCACGGCTT
CTCTTGGCCTTTCCAACAGCCGGTGGACGCCGTGAACTAAAGCTGCCTGACTATTACACCATCATAAAA
ACCCCAATGGATTTAAATACAATTAAGAAGCGGTTGAAAATAAGTATTATGAGAAGGCTCCGAATGCA
TAGAAGACTTCAACACAATGTTCTCAAAGTCTACTTATACAACAAGACTGGAGATGACATTGTTGTTAT
GGCCCAAGCTCTAGAGAAGTTATTTATGCAGAAATTTATCTCAGATGCCACAAGAAGCAAGTTGTGGGT
GGTAAGGAGAGAATAAAGAAAGATATCCAACAAAAGATAGCGGTTTCTCTGCTAAGGAACAAATCCCT
CCAAAGCGGCAGAGAATGTCTTTAAGCGCAAGAGATTCCTTCTGGGCTTCTGACATCTCTCTCGCC
CTTAAACATGGCACAAGAAGCTCCCCGATCTGTGACTCGCAGTCTCTGGTCCAAATTACAAAGGTGTG
AAGAGGCGAGCAGACACAACACTCCTACCACTCCATAGCTAAAGCAAGTAGCGAATCTCTCCGACAC
TTAGAGAAACAAAGCCAGTGAACATGCCAGTAAAAGAAAATACAGTAAAGAACGTTTTGCCAGACTCTCA
GCAACAACACAAAGTTTTAAAAACAGTCAAAGTAAAGCAAGTAAAGCAACTGCAGCGAGATTCTTAA
GAAATGCTTGCCAAGAAACATTTGCCGTATGCATGGCCCTTCTATAATCCTGTGGATGCTGATGCTTTGG
GACTCCACAACACTATGACGTTGTCAAAAATCCCATGGATCTCGGAACGATCAAGGTAATAACTGCC

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**



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Protein Sequence: >MR224116 representing NM_001079873
Red=Cloning site Green=Tags(s)

MSLPSRQTAIVNPPPEYINTKKSRL TNLQFLQRVVLKALWKHGF SWPFQQPVDVAVKLLKLPDYTYI IK
 TPMDLNTIKKRL ENKYYEKASECIEDFNTMFSN CYLYNK TGDDIVVMAQALEKLFMQKLSQMPQEEQVVG
 GKERIKKDIQK IAVSSAKEQIPSKAAENVFKRQEIPSGLPDISLSPLNMAQEAPPICDSQSLVQITKGV
 KRRADTTTPTTSIAKASSESPPTLRETKPVNMPVKENTVKNVLPDSQQQHKVVKTVKVTQLKHCSEILK
 EMLAKKHL PYAWPFYNPVDADALGLHNYDVVKNPMDLGTIKVNTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKLV

Chromatograms: https://cdn.origene.com/chromatograms/mm9038_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001079873

ORF Size: 978 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_001079873.1](#), [NP_001073342.1](#)

RefSeq Size: 1588 bp

RefSeq ORF: 981 bp

Locus ID: 114642

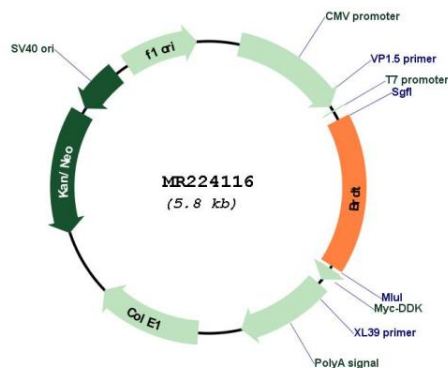
UniProt ID: [Q91Y44](#)

Cytogenetics: 5 E5

MW: 37.4 kDa

Gene Summary: The protein encoded by this gene belongs to the BET protein family. BET proteins have two N-terminal bromodomains and one C-terminal extraterminal domain (ET domain). BET proteins regulate chromatin reorganization via binding to acetylated histones. This gene is thought to play a role in the transcriptional regulation of spermatogenesis. Although referred to as testis-specific bromodomain (Brdt) protein, RT-PCR indicates that this gene is expressed in both mouse oocytes and testes. Alternative splicing results in multiple transcript variants encoding different proteins. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MR224116