

Product datasheet for **MC222846**

Brdt (NM_054054) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Brdt (NM_054054) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Brdt
Synonyms:	7420412D09Rik; Brd; Brd6; Fsr; Fsrg3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222846 representing NM_054054
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTCTGCCAAGTCGACAAACAGCTATTGTAAACCCCTCCACCAGGTACATAAACTAAGAAGA
 GTGGGCGTTGACGAATCAGCTGCAGTTCTACAGAGGTTGTGCTGAAGGCCCTGTGGAAGCACGGCTT
 CTCTTGCCCTTCCAACAGCCGGTGAGCGCGTAAACTAAAGCTGCCTGACTATTACACCATCATAAAA
 ACCCCAATGGATTTAAATACAATTAAGAAGCGGTTGAAAATAAGTATTATGAGAAGGCTTCCGAATGCA
 TAGAAGACTTCAACACAATGTTCTCAAAGTCTACTTATAACAACAAGACTGGAGATGACATTGTTGTTAT
 GGCCCAAGCTCTAGAGAAGTTATTTATGCAGAAATATCTCAGATGCCACAAGAAGCAAGTTGTGGGT
 GGTAAGGAGAGAATAAAGAAAGATATCCAACAAAAGATAGCGGTTTCTCTGCTAAGGAACAAATCCCT
 CCAAGCGGCAGAGAATGCTTTAAGCGGCAAGAGATTCCTTCTGGGCTCCTGACATCTCTCTCGCC
 CTTAAACATGGCACAAGAAGCTCCCCGATCTGTGACTCGCAGTCTCTGGTCAAATTAACAAGGTTGTG
 AAGAGGCGAGCAGACACAACAACCTACCCTCCATAGCTAAAGCAAGTAGCGAATCTCTCCGACAC
 TTAGAGAAAACAAAGCCAGTGAACATGCCAGTAAAAGAAAATACAGTAAAGAACGTTTTGCCAGACTCTCA
 GCAACAACACAAAGTTTTAAAAACAGTCAAAGTAAACGGAGCAATTAAGCACTGCAGCGAGATTCTAAA
 GAAATGCTTGCCAAGAAACATTTGCCGTATGCATGGCCCTTCTATAATCTGTGGATGCTGATGCTTTGG
 GACTCCACAACACTACTATGACGTTGTCAAAAATCCCATGGATCTCGGAACGATCAAGGGGAAAAATGGCAA
 TCAAGAATATAAGGATGCATATGAATTTGCTGCAGATGTCAGACTGATGTTTCATGAACTGTTACAAGTAT
 AATCCTCCCGATCATGAAGTTGTGGCGATGGCTCGGACCCTTCAAGATGTTTTTGAACACTACATTTGCCA
 AGATTCGGATGAACCTATTGAGAGTATGCATGCATGCCACCTTACAACAACAGTGCACAAGCCCTCAG
 CAGAGAAAAGCAGCAGCGAGGCCCTCCTCGGGGACGCCTTCTGAAGACTCTGAGGATGAACGAGTGCAG
 CATCTTGCCAAGCTTCAAGGAGCAGCTTAATGCTGTTTCATCAGCAGCTGCAAGTTCTGTCCAAGTTCCAT
 TACGTAAGCTGAAGAAAAAGAAATGAGAAGTCCAAAAGGGCGCAAAAGGAAAAAGGTTAATAACAGAGA
 TGAAAACCCAAGGAAAAAGCCTAAGCAAAATGAAGCAAAAGGAGAAGGCCAAAATCAATCAACCAAAGAA
 AAGAAGCCGCTTTTGAATCGGAAGAGGAAGACAATGCGAAGCCTATGAACTACGATGAGAAAAGGCAGC
 TGAGCTTGACATAAAACAACTGCCTGGAGACAAGCTTGGTGAATAGTTCACATAATACAGTCAAGGGA
 GCCTTCCCTGAGAACTCAACCCGGACGAGATCGAGATCGACTTGGAGCCCTGAAGGCATCCACACTT
 AGAGAAGTGGAGAAGTATGTCCTGGCCTGTCTGAGGAAGAGGTCGCTGAAGCCCCAAGCAAGAAGGTTG
 TCAGGTCTAAGGAGGAGCTCCATTTCTGAAAAAAGCTGGAGCTGGAGAGGCGGTTGCTGGACGTCACAA
 TCAGCTGAATGTAGAAACGGCAACGAAACGTCCAGCAAAAAGTGGAGAAGCCGCCCCCGCCCGCC
 CCGCCCCCGCCCGCCCTCCCCGGAGCTGGCCAGTGGGCTCTCGCCTGACCGACAGCAGCAGCAGCA
 GCGGCAGCGGCAGCGGCAGCAGCAGCAGCAGCAGCAGCGGCAGCAGCAGCAGCAGCAGCTCCTCGGGTCCGC
 GAGCAGCAGCAGCAGCTCGAGCTCCTCCGACAGCAGCGATTCTGAACCAGAAATATTTCTAAATTTACT
 GGAGTAAAACAGAATGATTTACCTCCAAAAGAAAATAAAGCAGATACAATCTTCTGTGCAAGACATAA
 CCTCTGCTGAAGCTCCCCTTGTCTCAGCAGAGCACAGCACCATGCGGAGCCCCAGGGAAGCACTCCCAGCA
 GATGCTTGGTTGCCAAGTGACACAGCATCTGCAGGCCACAGAGAACAAGTGCATCTGTGCAGACTCAGCCT
 CTTTCAGGTGATTGCAAGCGAGTATTGCTTGGCCCCCTGTTGGTGCACACCTCTGCTGAGAGCCTCACAG
 TGCTGGAGCCAGAATGCCATGCTCCCGCAGAAAGGATATAAAGATTAAGAATGCAGACTCTTGAAAAAG
 TTTAGGGAAGCCAGTGAAGCATCAAGTGTACTGAAGTCTTCAAGTGGAGTCTTCAACCAGTTTAAAAA
 GCTGCAATAGAAAAGGAGGTAAGGCCCGGACACAGGAGCAGATGCGGAAAACACCTGGAGCATAATGCGA
 AGGACCCAAAAGTATCTCAAGAAAATCAGAGGGAGCCTGGAAGTGGATTGACTCTAGAATCTTTATCAAG
 TAAAGTGAAGATAAGTCTTTGAAGAAGATCAGAGTGAACAGCAGCCACCGTCGGAAGCTCAAGACGTA
 AGCAAGCTCTGGCTTCTCAAAGACCGGAATCTAGCGAGGGAGAAAAGCAAGAGCGCAGGAGAAGAGAAG
 CAATGGCGGGTACCATTGATATGACTCTCAAAGTACATTATGACAATGTTTAAAAATAACTTTGATTA
 A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms:	https://cdn.origene.com/chromatograms/ja1566_e02.zip
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_054054
Insert Size:	2871 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	NM_054054.2 , NP_473395.2
RefSeq Size:	4710 bp
RefSeq ORF:	2871 bp
Locus ID:	114642
UniProt ID:	Q91Y44
Cytogenetics:	5 E5

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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (A).