

## Product datasheet for **MG223393**

### **Brdt (NM\_054054) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Brdt (NM_054054) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Brdt
Synonyms:	7420412D09Rik; Brd; Brd6; Fsr; Fsrg3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG223393 representing NM\_054054  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTCTGCCAAGTCGACAAACAGCTATTGTAAACCCCTCCACCAGGTACATAAACTAAGAAGA  
 GTGGGCGTTGACGAATCAGCTGCAGTTCTACAGAGGTTGTGCTGAAGGCCCTGTGGAAGCACGGCTT  
 CTCTTGCCCTTTCCAACAGCCGGTGAGCGCGTAAACTAAAGCTGCCTGACTATTACACCATCATAAAA  
 ACCCCAATGGATTTAAATACAATTAAGAAGCGGTTGAAAATAAGTATTATGAGAAGGCTTCCGAATGCA  
 TAGAAGACTTCAACACAATGTTCTCAAAGTCTACTTATAACAACAAGACTGGAGATGACATTGTTGTTAT  
 GGCCCAAGCTCTAGAGAAGTTATTTATGCAGAAATATCTCAGATGCCACAAGAAGCAAGTTGTGGGT  
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 CCAAGCGGCAGAGAATGCTTTAAGCGGCAAGAGATTCCTTCTGGGCTTCTGACATCTCTCTCGCC  
 CTTAAACATGGCACAAGAAGCTCCCCGATCTGTGACTCGCAGTCTCTGGTCAAATTAACAAGGTTGTG  
 AAGAGGCGAGCAGACACAACAACCTACCCTCCATAGCTAAAGCAAGTAGCGAATCTCTCCGACAC  
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 GCAACAACACAAAGTTTTAAAAACAGTCAAAGTAAACGGAGCAATTAAGCACTGCAGCGAGATTCTAAA  
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 CAATGGCGGGTACCATTGATATGACTCTCAAAGTACATTATGACAATGTTTAAAATAACTTTGAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG223393 representing NM\_054054  
 Red=Cloning site Green=Tags(s)

```
MSLPSRQTAIVNPPPEYINTKKSRL TNLQFLQRVVLKALWKHGF SWPFQQPVDVAVLKLKLPDYTYI IK
TPMDLNTIKKRL ENKYYEKASECIEDFNTMFSNCYL YNK TGDDI VVMAQALEKLFMQKLSQMPQEEQVVG
GKERIKKDIQQK IAVSSAKEQIPSKAAENVFKRQEIPSGLPDISL SPLNMAQEAPPICDSQSLVQITKGV
KRRADTTPTT SIAKASSESPPTLRETKPVNMPVKENTVKNVLPDSQQQHVKLKT VKVTEQLKHCSEILK
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NPPDHEVVAMARTLQDV FELHFAKIPDEPIESMHACHL TTNSAQALSRESSEASSGDASSEDESERVQ
HLAKLQEQ LNAVHQQLQVL SQVPLRKLKKNKSKRAPKRKKNRDNENPRKPKQMKQEKAKINQPKK
KKPLLKSEEDNAKPMNYDEKRQLSLDINKLPGDKLGRIVHIIQSREPSLRNSNPDEIEIDFETLKASTL
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PPPPPPPELASG SRLTSSSSSGSGSGSSSSSSGSSSSSSSSGSSSSSSGSSSSSDSSSDSSEPEIFPKFT
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LSGDCKRVL LGPPVVHTSAESLTVLEPECHAPAQKDIKKNADSWKSLGKPVKASSVLKSSDELFNQFRK
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```

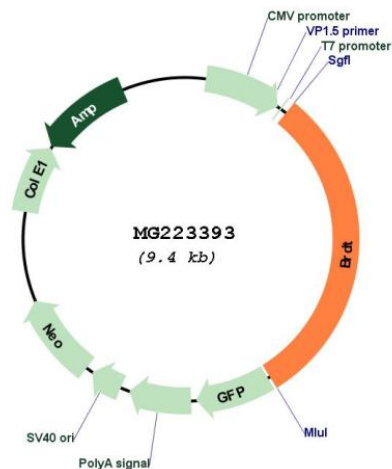
TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_054054

**ORF Size:** 2868 bp

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_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 (Brdtd) 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]