

Product datasheet for **RG226173**

BRD2 (NM_001113182) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BRD2 (NM_001113182) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BRD2
Synonyms:	BRD2-IT1; D6S113E; FSH; FSRG1; NAT; O27.1.1; RING3; RNF3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG226173 representing NM_001113182
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
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ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

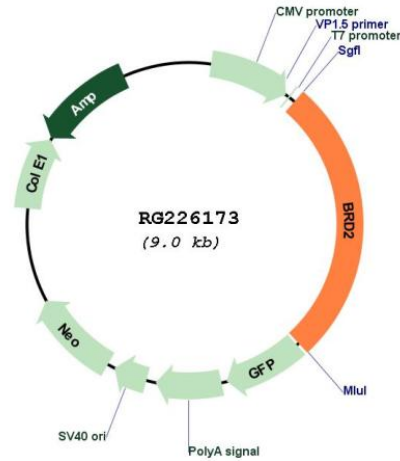
Protein Sequence: >RG226173 representing NM_001113182
 Red=Cloning site Green=Tags(s)

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CMQDFNTMFTNICYIYNKPTDDIVLMAQTLEKIFLQKVASMPQEEQELVVTIPKNSHKKGAKLAALQGSVT
SAHQVPAVSSVSHTALYTPPEIPTTVLNIHPHSVISSPLLKSLHSAGPPLLAVTAAPPAQPLAKKKGVK
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VSRLSASSSSSDSSSSSSSSSDTSDSDSG
  
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Plasmid Map:


ACCN: NM_001113182

ORF Size: 2403 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_001113182.3](#)

RefSeq Size: 4807 bp

RefSeq ORF: 2406 bp

Locus ID: 6046

UniProt ID: [P25440](#)

Cytogenetics: 6p21.32

Protein Families: Protein Kinase

Gene Summary: This gene encodes a transcriptional regulator that belongs to the BET (bromodomains and extra terminal domain) family of proteins. This protein associates with transcription complexes and with acetylated chromatin during mitosis, and it selectively binds to the acetylated lysine-12 residue of histone H4 via its two bromodomains. The gene maps to the major histocompatibility complex (MHC) class II region on chromosome 6p21.3, but sequence comparison suggests that the protein is not involved in the immune response. This gene has been implicated in juvenile myoclonic epilepsy, a common form of epilepsy that becomes apparent in adolescence. Multiple alternatively spliced variants have been described for this gene. [provided by RefSeq, Dec 2010]