

Product datasheet for **RG234941**

BRD2 (NM_001199455) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BRD2 (NM_001199455) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG234941 representing NM_001199455
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGCAAAACGTGACTCCCCACAATAAGCTCCCTGGGGAAGGGAATGCAGGGTTGCTGGGGCTGGGCC
 CAGAAGCAGCAGCACCAGGGAAGAGATTTCGAAAACCCTCTCTTGTATGAGGGCTTTGAGAGCCCCAC
 AATGGCTTCGGTGCCTGCTTTGCAACTTACCCCTGCCAACCCACCACCCCGGAGGTGTCCAATCCCAAA
 AAGCCAGGACGAGTTACCAACCAGCTGCAATACCTACACAAGGTAGTGATGAAGGCTCTGTGAAACATC
 AGTTTCGATGGCCATTCCGGCAGCCTGTGGATGCTGTCAAAGTGGTCTACCGGATTATCACAAAATTAT
 AAAACAGCCTATGGACATGGGTACTATTAAGAGGAGACTTGAACAATATTATTGGGCTGCTTCAGAG
 TGTATGCAAGATTTAATACCATGTTACCAACTGTTACATTTACAACAAGCCACTGATGATATTGTCC
 TAATGGCACAACGCTGAAAAGATATTCCTACAGAAGGTTGCATCAATGCCACAAGAAGAACAAGAGCT
 GGTAGTGACCATCCCTAAGAACAGCCACAAGAAGGGGCCAAGTTGGCAGCGCTCCAGGGCAGTGTACC
 AGTGCCCATCAGGTGCCCTGCGTCTCTTGTGTACACACAGCCCTGTATACTCTCCACTGAGATAC
 CTACCACTGTCTCAACATTCGCCACCCATCAGTCATTTCTCTCCACTTCTCAAGTCTTGCACCTGTC
 TGGACCCCGCTCCTTGCTGTTACTGCAGCTCCTCCAGCCAGCCCTTGCCAAGAAAAAGGCGTAAAG
 CGGAAAGCAGATACTACCACCCCTACACCTACAGCCATCTTGGCTCCTGGTTCTCCAGCTAGCCCTCCTG
 GGAGTCTTGAGCCTAAGGCAGCAGCGCTTCCCCATGCGTAGAGAGAGTGGTCGCCCCATCAAGCCCC
 ACGCAAAGACTTGCTGACTCTCAGCAACAACACCAGAGCTCTAAGAAAGGAAAGCTTTCAGAACAGTTA
 AAACATTGCAATGGCATTGTAAGGAGTTACTCTCTAAGAAGCATGCTGCCTATGCTTGGCCTTTCTATA
 AACCAATGGATGCTTCTGCACTTGGCTGCATGACTACCATGACATCATTAAAGCACCCATGGACCTCAG
 CACTGTCAAGCGGAAGATGGAGAACCGTGATTACCGGGATGCACAGGAGTTTGTGCTGATGTACGGCTT
 ATGTTCTCCAAGTCTATAAGTACAATCCCCAGATCACGATGTTGTGGCAATGGCACGAAAGCTACAGG
 ATGATTTGAGTCCGTTATGCCAAGATGCCAGATGAACCACTAGAACCAGGGCCTTTACCAGTCTCTAC
 TGCCATGCCCCCTGGCTTGCCAAATCGTCTTACAGTCTCCAGTGAGGAAAGTAGCAGTGAGAGCTCC
 TCTGAGGAAGAGGAGGAGGAAGATGAGGAGGACGAGGAGGAAGAAGAGAGTGAAGCTCAGACTCAGAGG
 AAGAAAGGGCTCATCGCTTAGCAGAATACAGGAACAGCTTCGGGCAGTACATGAACAATGGCTGCTCT
 GTCCAGGGTCCAATATCCAAGCCCAAGAGGAAAAAGAGAAAAAAGAAAAAAGAAACGGAAGGCA
 GAGAAGCATCGAGCCGAGCTGGGGCCGATGAAGATGACAAGGGGCTAGGGCACCCGCCACCTCAAC
 CTAAAGAGTCCAAGAAAGCAAGTGGCAGTGGGGGTGGCAGTGTGCTTTAGGCCCTTCTGGCTTTGACC
 TTCTGGAGGAAGTGGCACCAAACTCCAGGCTGGAGTGCAGTGGCGTGATCTCGGCTTACTGCAACCTCCA
 CTTCTCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCCAGGATTACAGGCTCCCCAAAAGG
 CCACAAAGACAGCCACCTGCCCTGCCTACAGGTTATGATTACAGAGGAGGAGGAAGAGAGCAGGCCAT
 GAGTTACGATGAGAAGCGGCAGCTGAGCCTGGACATCAACAAATTACCTGGGAGAAAGCTGGGCCGAGTT
 GTGCATAAATCCAAGCCAGGGAGCCCTTTACGTGATTCAAACCCAGAAGAGATTGAGATTGATTTTG
 AAACACTCAAGCCATCCACACTTAGAGAGCTTGAGCGCTATGCTCTTCTGCCTACGTAAGAAACCCCG
 GAAGCCCTACACCATTAAGAAGCCTGTGGGAAAGACAAGGAGGAACTGGCTTTGGAGAAAAAGCGGGAA
 TTAGAAAAGCGGTTACAAGATGTCAGCGGACAGCTCAATTCTACTAAAAAGCCCCCAAGAAAGCGAATG
 AGAAAACAGAGTCATCCTCTGCACAGCAAGTAGCAGTGTACGCCTTAGCGCTTCCAGCTCCAGCTCAGA
 TTCAGCTCCTCCTTCTCGTCGTCGCTTTCAGACACCAGTGATTCAGACTCAGGC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234941 representing NM_001199455
 Red=Cloning site Green=Tags(s)

```

MLQNVTPHNKLPGEAGNAGLLGLGPEAAAPGKRIRKPSLLYEGFESPTMASVPALQLTPANPPPPEVSNPK
KPGRVTNQLQYLHKVVMKALWKHQFAWPFRRQPVDAVKLGLPDYHKIIKQPMDMGTIKRRLNNYYWAASE
CMQDFNTMFTNICYIYNKPTDDIVLMAQTLEKIFLQKVASMPQEEQELVVTIPKNSHKKGAKLAALQGSVT
SAHQVPAVSSVSHTALYTPPEIPTTVLNIHPHSVISSPLLKSLHSAGPPLLAVTAAPPAQPLAKKKGVK
RKADTTTPTTAILAPGSPASPPGSLEPKAARLPPMRRESGRPIKPPRKDLPDSQQQHSSKKGKLEQL
KHCNGILKELLSKKHAAYAWPFYKPVDAALGLHDYHDIKHPMDLSTVKRKMENRDYRDAQEFAADVRL
MFSNCKYKYNPPDHDVAMARKLQDVFEFRYAKMPDEPLEPGPLPVSTAMPPLAKSSSESSSESSSESS
SEEEEEDEEEDDEEESDSEEEERHRLAELQEQLRAVHEQLAALSQGPISKPKRKREKKEKKKKRKA
EKHRGRAGADEDDKPRAPRPPQPKSKKASGSGGSAALGPSGFGPSGGSGTKLQAGVQWRDLGLLQPP
LLGFKRFSLSLPSSQDYRLPKKATKTAPPALPTGYDSEEEEESRPMSYDEKRQLSLDINKLPGEKLRV
VHIIQAREPSLRDSNPEEIEIDFETLKPSTLRELERVLSCLRKKPRKPYTIKKPVGKTKEELALEKKRE
LEKRLQDVSGQLNSTKKPPKANNEKTESSAQQVAVSRLSASSSSDSSSSSSSSSSSDTSDSDSG
  
```

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

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_001199455.1](#), [NP_001186384.1](#)

RefSeq Size: 4602 bp

RefSeq ORF: 2511 bp

Locus ID: 6046

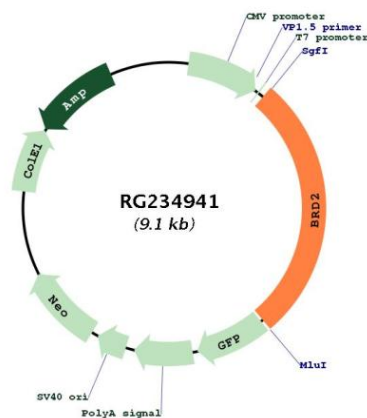
UniProt ID: [P25440](#)

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]

Product images:



Circular map for RG234941