

Product datasheet for **MG212615**

Brd1 (NM_001033274) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Brd1 (NM_001033274) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Brd1
Synonyms: 1110059H06Rik; AI316859; mKIAA4191
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG212615 representing NM_001033274
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGAGGAGGAAAGGACGATGCCATCGAGGTTCTGCAGCGAGGCATCCTTCTTCCCCTGCAGTATTAAC
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CCCCTGTTGCGGCGGCTCCAGTCCAGCCTGCAGTCCCAGAGAAACACGCAGCAGAGAGAAAATGATGAAG
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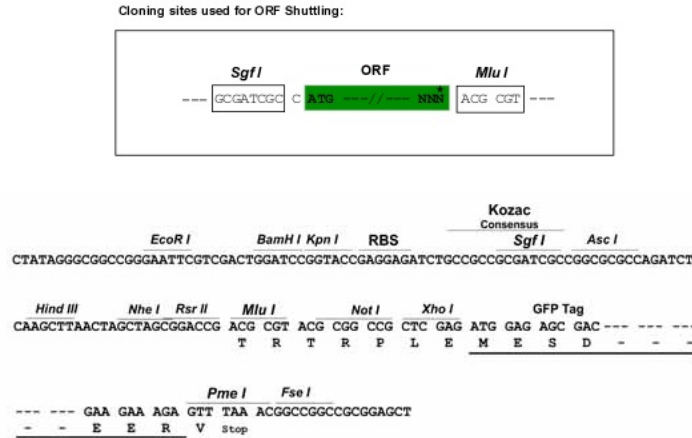
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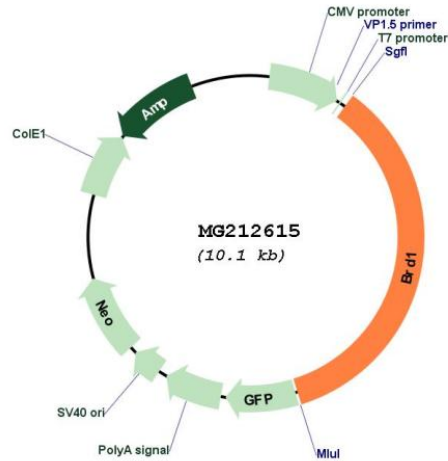
Protein Sequence: >MG212615 representing NM_001033274
 Red=Cloning site Green=Tags(s)

MRRKGRCHRGSAAARHPSSPCSIKHSPTRETLTYAQAQRMVEIEIEGRLHRISIFDPLEIILEDLTAQEM
 SECNSNKENSERPPVCLRTKRHKNNRVKKKNEVLPSTHGTPASASALPEPKVRIVEYSPPSAPRRPPVYY
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 FKKTDDDRWGHVVCALWIPEVGFANTVFIEPIDGVRNIPPARWKLTCYLCKQKGVGACIQCHKANCYTAF
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 PLLRRLQSSLQSRNTQQRENDEEMKAAKEKLYWQRLRDLERARLLIELLRKREKLRQVQVQEMAM
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 GFEDAAPLAPDTAEEGANSPPKLEPSDALPLPSNSETNSEPPTLNPVELHPEQSKLFKRVTFDNESHST
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 TDAASVLEPLKVVWAKCSGYPSPALIIDPKMPRVPGHHNGVTIPAPPLDVLKIGEHMQTKSEEKFLV
 LFFDNKRWSQWLPKSKMVPLGVDEIDKLMMEGRNSSIRKAVRIAFDRAMNHLRVHGEPAASLSDID

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI
Cloning Scheme:



Plasmid Map:


ACCN: NM_001033274

ORF Size: 3567 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_001033274.3](#), [NP_001028446.2](#)

RefSeq Size: 5137 bp

RefSeq ORF: 3570 bp

Locus ID: 223770

Cytogenetics: 15 E3

Gene Summary:

Scaffold subunit of various histone acetyltransferase (HAT) complexes, such as the MOZ/MORF and HBO1 complexes, that acts as a regulator of hematopoiesis (PubMed:21753189). Plays a key role in HBO1 complex by directing KAT7/HBO1 specificity towards histone H3 'Lys-14' acetylation (H3K14ac), thereby promoting erythroid differentiation (PubMed:21753189).[UniProtKB/Swiss-Prot Function]