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Product datasheet for MG211186

Brd8 (BC025644) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Brd8 (BC025644) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Brd8
Synonyms:	SMAP, 4933408B17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>MG211186 representing BC025644
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGAGTGGGGATCAGAACTGGGTATCAGTTAGCAGAGCAATCAAGCCCTTTGCAGAACCTGGCCGGC
CTCCAGACTGGTTCTCTCAAAAACATTGTGCTTCTCAGTATTCTGAGCTCTTAGAGACTACTGAGACTCC
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CAGTGTCCCCATGGGCTCTCCTGCCTTCCTTCTCTCTCTCTTTGATGGGGGAACCAGGGGACGCCGCTGT
GCCATTGAAGCAGATATGAAGATGAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG211186 representing BC025644
Red=Cloning site Green=Tags(s)

MRSGDQNWVSVSRAIKPFAEPGRPPDWFSQKHCASQYSELLETTETPKRKRGEKGEVVETVEDVIVRKLT
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LEAPMTPITDDSPQKKMLGQKATPPPSPLLSELLKKGSLLPTSPRLVNESEMPVPPGHLNSTGVLLEVGG
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APGGSKAPSIDGKEDLDLAEKMDIAVSYTGEELDFETVGDIIAIIEDKVDDHPEVLDVAAVEAALSFCEE
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MSGAEIVAGVGPVPSMEPPELRSQDSDEEPRSSAAGDIGEADGSSGKGDERPLSAVKTEASPESMLSPSH
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DNEPPVSESDDGFSIHNATLQSHTLADSIPSSPASSQFSVCSEDQEAIQAQKIWKKAIMLVWRAAANHRY
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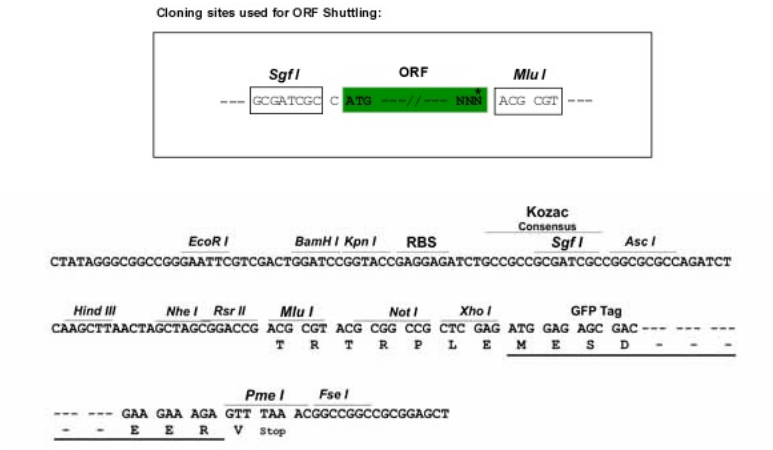
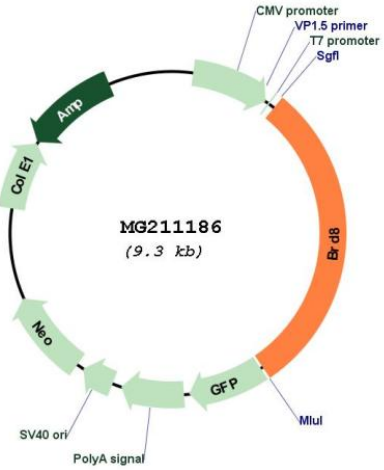
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	BC025644
ORF Size:	2762 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:	BC025644, AAH25644
RefSeq Size:	3277 bp
RefSeq ORF:	2762 bp
Locus ID:	78656
Cytogenetics:	18 B1

Gene Summary: May act as a coactivator during transcriptional activation by hormone-activated nuclear receptors (NR). Stimulates transcriptional activation by AR/DHTR, ESR1/NR3A1, RXRA/NR2B1 and THRB/ERBA2. Component of the NuA4 histone acetyltransferase (HAT) complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage. Component of a SWR1-like complex that specifically mediates the removal of histone H2A.Z/H2AFZ from the nucleosome.[UniProtKB/Swiss-Prot Function]