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Product datasheet for MG202089

Wibg (BC049647) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wibg (BC049647) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wibg
Synonyms:	A030010B05Rik; Pym; Wibg
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG202089 representing BC049647
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGACTCCCTATGTAACTGACGAGACCGGCGGCAAGTACATTGCCTCAACACAGAGACCCGACGGGA
CGTGGCGAAAGCAGCGGAGGGTCAAAGAAGGATACGTGCCCCAAGAGGAGGTCCCAGTCTATGAAAACAA
GTATGTGAAGTTTTTCAAGAGTAAACCAGAACTTCCCCCAGGGCTGAGCCCTGAGGCCACCACACCGGTC
ACCCCATCCAGACCTGAAGGTGGTGAGACAGGCCTCTCCAAGACAGCCAAACGAAACCTGAAGCGGAAGG
AGAAGAGGCGGCAGCAACAGGAGAAAGAAGCAGAGGCCTTGAGCAGGACTCTTGATAAGGTGTCTCTGGG
AGACACAGCCCAGATACCTAGTGCTCTCCAAGGCCCCCAGGCCACGCCTCTAGCTGCCTCTGATCCATCC
GACTCTGCTGCCACCACAGAGAAAGCCAAGAAGATCAAGAACCTGAGGAAGAAGCTTCGGCAGGTGGAGG
AGCTGCAGCAACGCATCCAGGCCGGGGAGGTCAGCCAGCCCAGCAGAGAACAGCTGGAGAAGCTGGCTCG
ACGGAGGGTTCTGGAGGAGGAGCTGGAGGACTTGGAGTTGGGCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG202089 representing BC049647
Red=Cloning site Green=Tags(s)

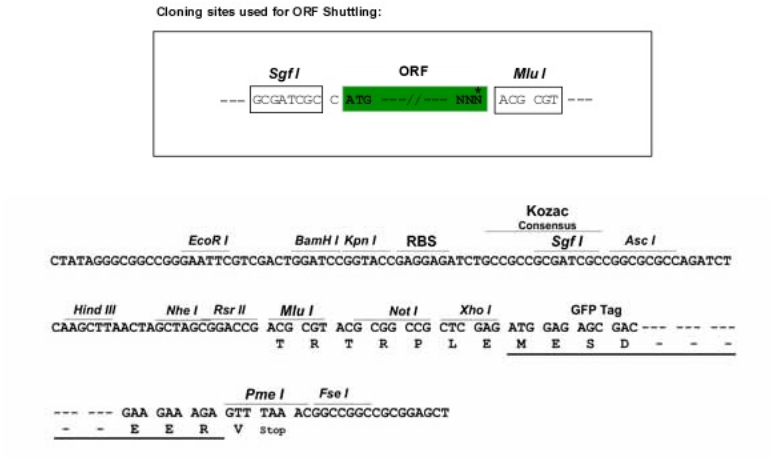
MATPYVTDETGGKYIASTQRPDGTWRKQRRVKEGYVPQEEVPVYENKYVKFFKSKPELPPGLSPEATTPV
TPSRPEGGETGLSKTAKRNLKRKEKRRQQQEKEAEALSRTLDKVSLGDTAQIPSALQGPQATPLAASDPS
DSAATTEKAKKIKNLRKKLRQVEELQQRIQAGEVSQPSREQLEKLARRRVLEEELEDLELGL

TRTRPLE - GFP Tag - V

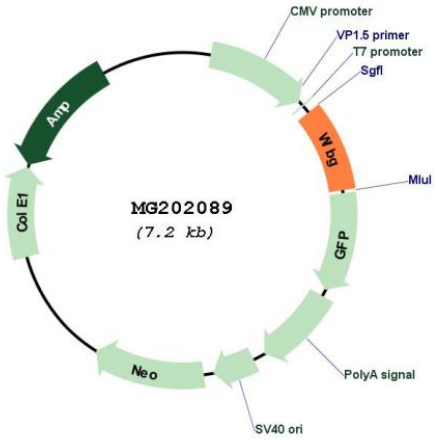
Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



Plasmid Map:



ACCN:	BC049647
ORF Size:	608 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:	BC049647, AAH49647
RefSeq Size:	1120 bp
RefSeq ORF:	608 bp
Locus ID:	78428
Cytogenetics:	10 D3
Gene Summary:	Key regulator of the exon junction complex (EJC), a multiprotein complex that associates immediately upstream of the exon-exon junction on mRNAs and serves as a positional landmark for the intron exon structure of genes and directs post-transcriptional processes in the cytoplasm such as mRNA export, nonsense-mediated mRNA decay (NMD) or translation. Acts as an EJC disassembly factor, allowing translation-dependent EJC removal and recycling by disrupting mature EJC from spliced mRNAs. Its association with the 40S ribosomal subunit probably prevents a translation-independent disassembly of the EJC from spliced mRNAs, by restricting its activity to mRNAs that have been translated. Interferes with NMD and enhances translation of spliced mRNAs, probably by antagonizing EJC functions (By similarity). [UniProtKB/Swiss-Prot Function]