

Product datasheet for **MG215918**

Bnip1 (NM_172149) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bnip1 (NM_172149) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Bnip1
Synonyms: 2010005M06Rik; 5930429G21Rik; Sec20
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG215918 representing NM_172149
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTCCCCAGGATGTCCACGTCCGGATCTGTAACCAAGAGATTGTCAAATTCGACCTAGAGGTGA
AGGCGCTTATCCAGGATATTCGAGATTGTTCTGGACCCCTAAGTGAGCTTACTGAACTGAATACTAAGGT
GAAAGAAAAGTTCCAACAGTTAAAACAGAGGATCCAGGAGCTCGAACAGTCAGCAAGGGAGCAAGACAAG
GAGTCAGAGAAGCAGCTTCTACTTCAGGAAGTGGAGAACCACAAAAGCAGATGCTCAGCAACCAGACCT
CATGGCGAAAAGCCAATCTTACCTGCAAGCTTGCCATCGACAACCTGGAGAAGGCAGAATTCTGCAAGG
AGGAGACTCCTTACGGCAAAGGAAAACCAAAAGAGAGTTTGGCCAGACCTCCAGCTCCATCACAGAG
AGTCTCATGGGGATCAGCAGGATGATGTACAGCAGGTGCAACAGAGCGAGGAGGCTATGCAGACTCTAG
TCAGCTCCTCACGGACTCTCTGGATGCAAACGAAGAGTTTAAGTCCATGTGGGAACCATCCAGTTGGG
CCGGAAGCTCATCAAAGTACAACCGCCGAGAAGTACGCGACAAGCTGCTCATCTTCTGGCCCTGGCC
CTCTTCTCGCTACAGTCCTTTATTGTGAAAAGCGCCTCTTCCATTTTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG215918 representing NM_172149
 Red=Cloning site Green=Tags(s)

MAAPQDVHVRICNQEIVKFDLEVKALIQDIRDCSGPLSELTELNTKVKEKFQQLKQRIQELEQSAREQDK
 ESEKQLLLQEVENHKKQMLSNQTSWRKANLTCKLAIDNLEKAELLQGGDSL RQRKTTKESLAQTSSSITE
 SLMGISRMMSQQVQQSEEMQTLVSSRLLDANEEFKSMSGTIQLGRKLITKYNRRELTDKLLIFLALA
 LFLATVLYIVKRLFPFL

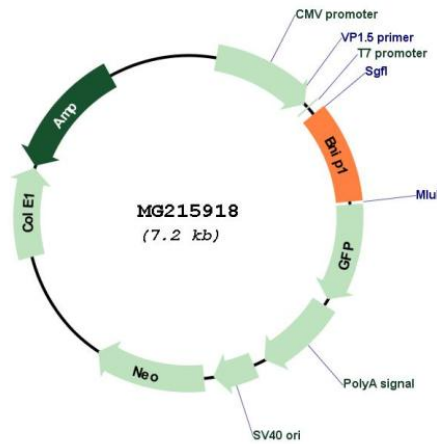
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_172149

ORF Size: 684 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:	<ol style="list-style-type: none">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_172149.5 , NP_742161.4
RefSeq Size:	1100 bp
RefSeq ORF:	687 bp
Locus ID:	224630
UniProt ID:	Q6QD59
Cytogenetics:	17 A3.3
Gene Summary:	As part of a SNARE complex may be involved in endoplasmic reticulum membranes fusion and be required for the maintenance of endoplasmic reticulum organization. Plays also a role in apoptosis. It is for instance required for endoplasmic reticulum stress-induced apoptosis. As a substrate of RNF185 interacting with SQSTM1, might also be involved in mitochondrial autophagy.[UniProtKB/Swiss-Prot Function]