

Product datasheet for **RG222234**

NBR1 (NM_031858) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NBR1 (NM_031858) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NBR1
Synonyms:	1A1-3B; M17S2; MIG19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG222234 representing NM_031858
 Red=Cloning site Blue=ORF Green=Tags(s)

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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG222234 representing NM_031858
 Red=Cloning site Green=Tags(s)

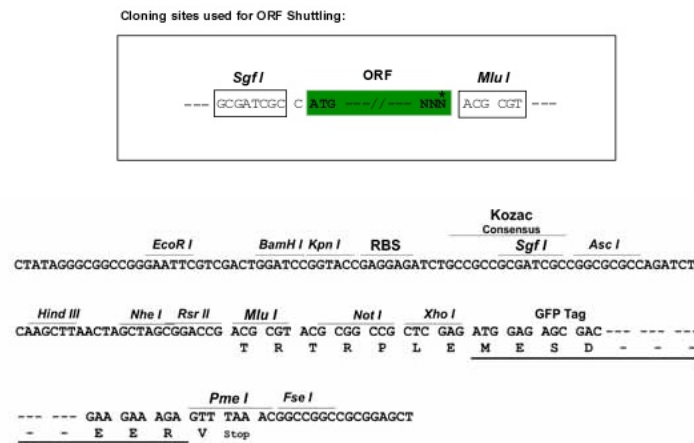
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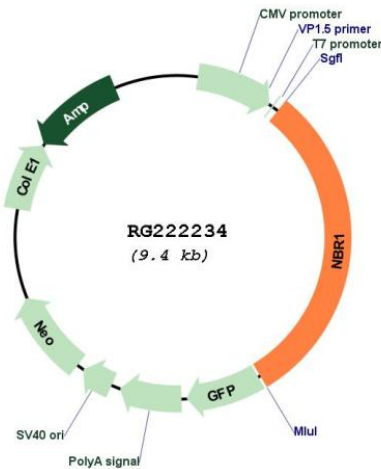
TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_031858

ORF Size: 2898 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_031858.2](#)

RefSeq Size: 4770 bp

RefSeq ORF: 2900 bp

Locus ID: 4077

Cytogenetics: 17q21.31

Domains: PB1, ZnF_ZZ

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene was originally identified as an ovarian tumor antigen monitored in ovarian cancer. The encoded protein contains a B-box/coiled-coil motif, which is present in many genes with transformation potential. It functions as a specific autophagy receptor for the selective autophagic degradation of peroxisomes by forming intracellular inclusions with ubiquitylated autophagic substrates. This gene is located on a region of chromosome 17q21.1 that is in close proximity to the BRCA1 tumor suppressor gene. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Apr 2014]