

## Product datasheet for **RG214025**

### **BNIP1 (NM\_013980) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BNIP1 (NM_013980) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BNIP1
Synonyms:	NIP1; SEC20; TRG-8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214025 representing NM_013980 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCTCCCCAAGACGTCCACGTCCGGATCTGTAACCAAGAGATTGTCAAATTTGACCTGGAGGTGA  
AGGCGCTTATTCAGGATATCCGTGATTGTTGAGGACCCCTAAGTGCTCTTACTGAACTGAATACTAAAGT  
AAAAGAGAAATTTCAACAGTTGCGTCACAGAATACAGCCAGTTCTCTATCAAAGGCATTTATTTGGACT  
GCTTCCACATTTTTTTTTAAGCTAACTTATCCCTGACAGACTTTTCTTCAACTCAGCATGACTTCACT  
CTCCAACACTACACCTGTTACCTTCAGTGACCTGGAGCAGTTGGCTAAAGAGCAAGACAAAGAATCAGAGAA  
ACAACCTTCTACTCCAGGAAGTGGAGAATCACAAAAGCAGATGCTCAGGAAAACCAAAAGAGAGCCTG  
GCCAGACATCCAGTACCATCACTGAGAGCCTCATGGGGATCAGCAGGATGATGGCCAGCAGGTCCAGC  
AGAGCGAGGAGGCCATGCAGTCTCTAGTCACTTCTTACGAACGATCCTGGATGCAAATGAAGAATTTAA  
GTCCATGTCGGGCACCATCCAGCTGGGCCGGAAGCTTATCACAAAATACAATCGCCGGGAGCTGACGGAC  
AAGTTCTCATCTTCTTGCCTAGCCCTGTTTCTTGCTACGGTCCTCTATATTGTGAAAAGCGGCTCT  
TTCCATTTTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG214025 representing NM\_013980  
Red=Cloning site Green=Tags(s)

MAAPQDVHVRICNQEIVKFDLEVKALIQDIRDCSGPLSALTELNKVKKEKFQQLRHRIQPVLVYQRAFIWT  
 ASTFFFFKLTYSLTDFSSQTHDFNSPTTPVTFSDLEQLAKEQDKSEKQLLLQEVENHKKQMLRKTTKESL  
 AQTSSITITESLMGISRMMAQQVQVQSEAMQSLVTSRRTILDANEEFKSMSGTIQLGRKLIITKYNRRELTD  
 KLLIFLALALFLATVLYIVKKRFLPFLL

TRTRPLE - GFP Tag - V

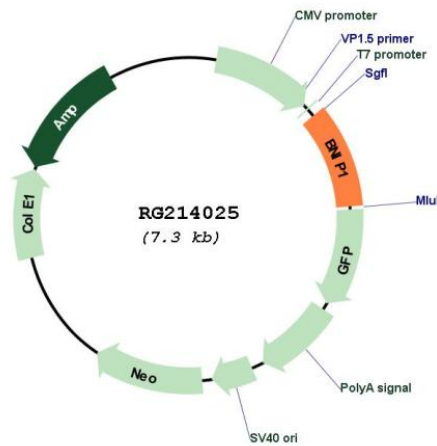
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_013980

**ORF Size:** 711 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_013980.3</a>
<b>RefSeq Size:</b>	1286 bp
<b>RefSeq ORF:</b>	714 bp
<b>Locus ID:</b>	662
<b>UniProt ID:</b>	<a href="#">Q12981</a>
<b>Cytogenetics:</b>	5q35.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	SNARE interactions in vesicular transport
<b>Gene Summary:</b>	This gene is a member of the BCL2/adenovirus E1B 19 kd-interacting protein (BNIP) family. It interacts with the E1B 19 kDa protein, which protects cells from virally-induced cell death. The encoded protein also interacts with E1B 19 kDa-like sequences of BCL2, another apoptotic protector. In addition, this protein is involved in vesicle transport into the endoplasmic reticulum. Alternative splicing of this gene results in four protein products with identical N- and C-termini. [provided by RefSeq, Mar 2011]