

## Product datasheet for **MG226907**

### Vip (NM\_011702) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
Product Name: Vip (NM\_011702) Mouse Tagged ORF Clone  
Tag: TurboGFP  
Symbol: Vip  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-AC-GFP (PS100010)  
E. coli Selection: Ampicillin (100 ug/mL)  
ORF Nucleotide Sequence: >MG226907 representing NM\_011702  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAGCCAGAAGCAAGCCTCAGTTCCTGGCATTCTGATACTTTCAGTGTGCTGTTCTCTCAGTCGC  
TGGCCTGGCCTCTCTTTGGACCACCTTCTGTAGTAGTAGGCTGGATGACAGGATGCCGTTTGAAGGAGC  
AGGTGACCCTGACCAAGTCTCTTTAAAAGCAGACTCTGACATCTGCAGAATCCCTTAGCAGAAAATGCC  
ACACCCATTATGATGTGTCAAGAAATGCCAGGCATGCTGATGGAGTTTTACCAGCGATTACAGCAGAG  
TTCTGGGTCAGATTTCTGCCAAAAATACCTTGTAGTCACTCATTGGCAAACGAATCAGCAGCAGCATCTC  
GGAAGATCCTGTGCCAATCAAACGACACTCTGATGCCGTCTTACAGATAACTACCCCGCCTCAGAAAAG  
CAAATGGCTGTGAAGAAATACCTGAACTCCATCCTGAATGGAAAGAGGAGCAGTGAGGGAGATTCTGCAG  
ACTTTCTGAAGAGCTGGAGAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226907 representing NM\_011702  
Red=Cloning site Green=Tags(s)

MEARSKPQFLAFLILFVLSQSLAWPLFGPPSVVSRLLDRMPFEGAGDPDQVSLKADSDILQNPLAENG  
TPYYDVSRRNARHADGVFTSDYSRLLGQISAKKYLESLIGKRISSEI SEDPVPIKRHSDAVFTDNYTRLRK  
QMAVKKYLNSILNGKRSSEGDSADFLLEELEK

**TRTRPLE** - GFP Tag - V

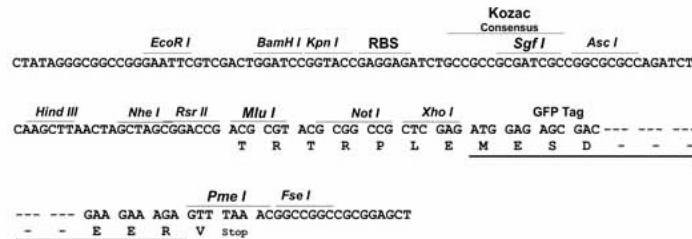
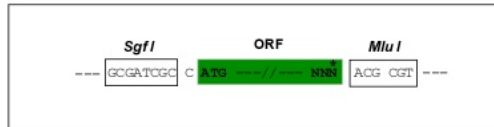
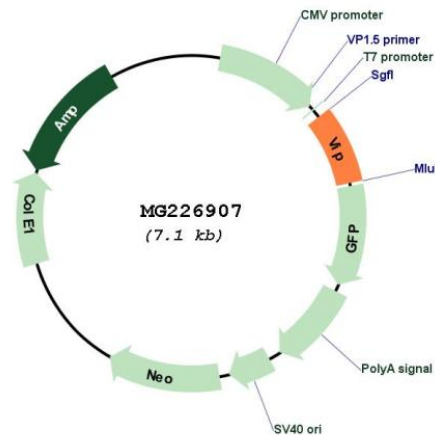
Restriction Sites: SgfI-MluI



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**Cloning Scheme:**

Cloning sites used for ORF Shutting:


**Plasmid Map:**


**ACCN:** NM\_011702

**ORF Size:** 513 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.

<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_011702.3</a>
<b>RefSeq Size:</b>	1527 bp
<b>RefSeq ORF:</b>	516 bp
<b>Locus ID:</b>	22353
<b>UniProt ID:</b>	<a href="#">P32648</a>
<b>Cytogenetics:</b>	10 A1
<b>Gene Summary:</b>	This gene encodes a neuropeptide of the glucagon/secretin superfamily with potent bronchodilator, immunomodulator and anti-inflammatory properties. The encoded protein is proteolytically processed to generate two structurally similar neuropeptides - vasoactive intestinal peptide (VIP) and peptide histidine isoleucine (PHI). In the digestive tract, VIP stimulates relaxation of enteric smooth muscle, secretion of water and electrolytes, release of insulin and glucagon, and inhibition of gastric acid secretion. In the cardiovascular system, VIP causes coronary vasodilation and stimulates contractility in the heart. Mice lacking VIP exhibit airway hyperresponsiveness and airway inflammation. Male mice lacking VIP exhibit moderate pulmonary arterial hypertension resulting in increased mortality. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015]