

Product datasheet for **MR226907**

Vip (NM_011702) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Vip (NM_011702) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Vip
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226907 representing NM_011702
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGCCAGAAGCAAGCCTCAGTTCCTGGCATTCTGATACTCTTCAGTGTGCTGTTCTCTCAGTCGC
 TGGCCTGGCCTCTCTTTGGACCACCTTCTGTAGTAGTAGGCTGGATGACAGGATGCCGTTTGAAGGAGC
 AGGTGACCCTGACCAAGTCTCTTTAAAAGCAGACTCTGACATCTTGCAGAATCCCTTAGCAGAAAATGGC
 ACACCCATTATGATGTGTCAAGAAATGCCAGGCATGCTGATGGAGTTTTCACCAGCGATTACAGCAGAC
 TTCTGGGTCAGATTTCTGCCAAAAATACCTTGAGTCACTCATTGGCAAACGAATCAGCAGCAGCATCTC
 GGAAGATCCTGTGCCAATCAAACGACACTCTGATGCCGCTTTCACAGATAACTACACCCGCCTCAGAAAG
 CAAATGGCTGTGAAGAAATACCTGAACTCCATCCTGAATGGAAAGAGGAGCAGTGAGGGAGATTCTGCAG
 ACTTTCTTGAAGAGCTGGAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226907 representing NM_011702
 Red=Cloning site Green=Tags(s)

MEARSKPQFLAFLILFSVLFSQSLAWPLFGPPSVVSRLDDRMPEFAGDPDQVSLKADSDILQNPLAENG
 TPYYDVSRNARHADGVFTSDYSRLLGQISAKKYLESLIGKRISSEDPVPIKRHSDAVFTDNYTRLRK
 QMAVKKYLNSILNGKRSSEGDADFLEELEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9008_d04.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:



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.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_011702.3](#)

RefSeq Size: 1527 bp

RefSeq ORF: 516 bp

Locus ID: 22353

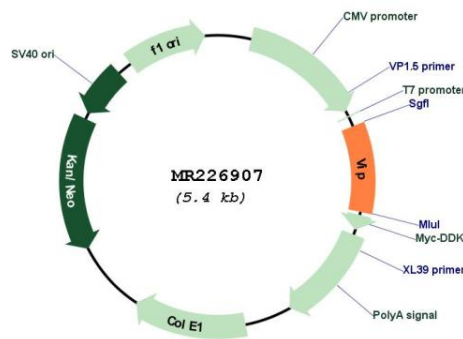
UniProt ID: [P32648](#)

Cytogenetics: 10 A1

MW: 19.6 kDa

Gene Summary: 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]

Product images:



Circular map for MR226907