

Product datasheet for **RC203126**

VIP (NM_003381) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: VIP (NM_003381) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: VIP
Synonyms: PHM27
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC203126 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACACCAGAAATAAGGCCAGCTCCTTGCTCCTGACTCTTCTCAGTGTGCTCTTCTCACAGACTT
CGGCATGGCTCTTTACAGGGCACCTTCTGCTCTCAGGTTGGGTGACAGAATACCCTTTGAGGGAGCAAA
TGAACCTGATCAAGTTTCATTAAGAAGACATTGACATGTTGAAAATGCATTAGCTGAAAATGACACA
CCCTATTATGATGTATCCAGAAATGCCAGGCATGCTGATGGAGTTTTACCAGTGACTTCAGTAACTCT
TGGGTCAACTTTCTGCCAAAAAGTACCTTGAGTCTTATGGGAAAACGTGTTAGTAACATCTCAGAAGA
CCCTGTACCAGTCAAACGTCACTCAGATGCAGTCTTCACTGACAACTATACCCGCCTTAGAAAACAAATG
GCTGTAAGAAATATTTGAACCAATTCTGAATGGAAAGAGGAGCAGTGAGGGAGAATCTCCCGACTTTC
CAGAAGAGTTAGAAAA

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203126 protein sequence
Red=Cloning site Green=Tags(s)

MDTRNKAQLLVLLTLLSVLFSQTSAPWLYRAPSALRLGDRIPFEGANEPDQVSLKEDIDMLQNALAENDT
PYYDVSRNARHADGVFTSDFSKLLGQLSAKKYLESLMGKRVSNI SEDPVPVKRHSDAVFTDNYTRLRKQM
AVKKYLNSILNGKRSSEGESPDFPEELEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6055_a03.zip

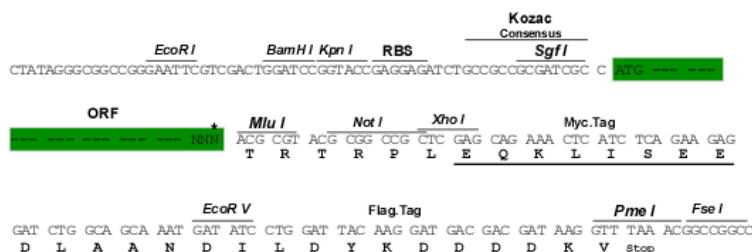
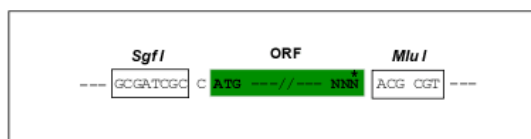


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Restriction Sites: SgfI-MluI

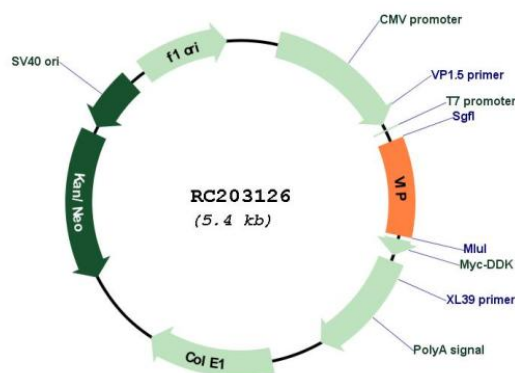
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_003381

ORF Size: 507 bp

OTI Disclaimer:

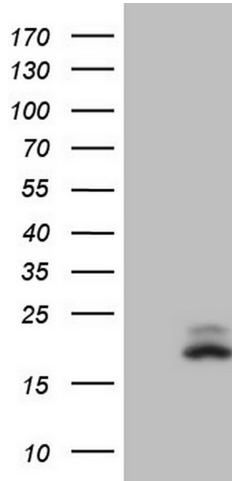
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:

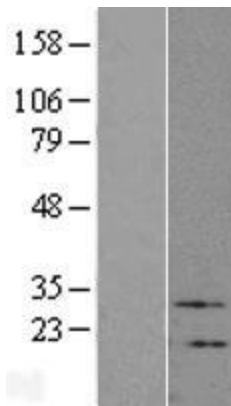
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_003381.4
RefSeq Size:	1601 bp
RefSeq ORF:	513 bp
Locus ID:	7432
UniProt ID:	P01282
Cytogenetics:	6q25.2
Domains:	GLUCA
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
MW:	19.1 kDa
Gene Summary:	<p>The protein encoded by this gene belongs to the glucagon family. It stimulates myocardial contractility, causes vasodilation, increases glycogenolysis, lowers arterial blood pressure and relaxes the smooth muscle of trachea, stomach and gall bladder. The protein also acts as an antimicrobial peptide with antibacterial and antifungal activity. Alternative splicing occurs at this locus and two transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Nov 2014]</p>

Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY VIP (Cat# RC203126, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-VIP (Cat# [TA806855]). Positive lysates [LY418679] (100ug) and [LC418679] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418679]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203126 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).