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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC203126 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACACCAGAAATAAGGCCCAGCTCCTTGTGCTCCTGACTCTTCTCAGTGTGCTCTTCTCACAGACTT
CGGCATGGCCTCTTTACAGGGCACCTTCTGCTCTCAGGTTGGGTGACAGAATACCCTTTGAGGGAGCAAA
TGAACCTGATCAAGTTTCATTAAAAGAAGACATTGACATGTTGCAAAATGCATTAGCTGAAAATGACACA
CCCTATTATGATGTATCCAGAAATGCCAGGCATGCTGATGGAGTTTTCACCAGTGACTTCAGTAAACTCT
TGGGTCAACTTTCTGCCAAAAAGTACCTTGAGTCTCTTATGGGAAAACGTGTTAGTAACATCTCAGAAGA
CCCTGTACCAGTCAAACGTCACTCAGATGCAGTCTTCACTGACAACTATACCCGCCTTAGAAAACAAATG
GCTGTAAAGAAATATTTGAACTCAATTCTGAATGGAAAGAGGAGCAGTGAGGGAGAATCTCCCGACTTTC
CAGAAGAGTTAGAAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

Protein Sequence:

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

MDTRNKAQLLVLLTLLSVLFSQTSAWPLYRAPSALRLGDRIPFEGANEPDQVSLKEDIDMLQNALAENDT
PYYDVSRNARHADGVFTSDFSKLLGQLSAKKYLESLMGKRVSNISEDPVPVKRHSDAVFTDNYTRLRKQM
AVKKYLNSILNGKRSSEGESPDFPEELEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

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

View online »

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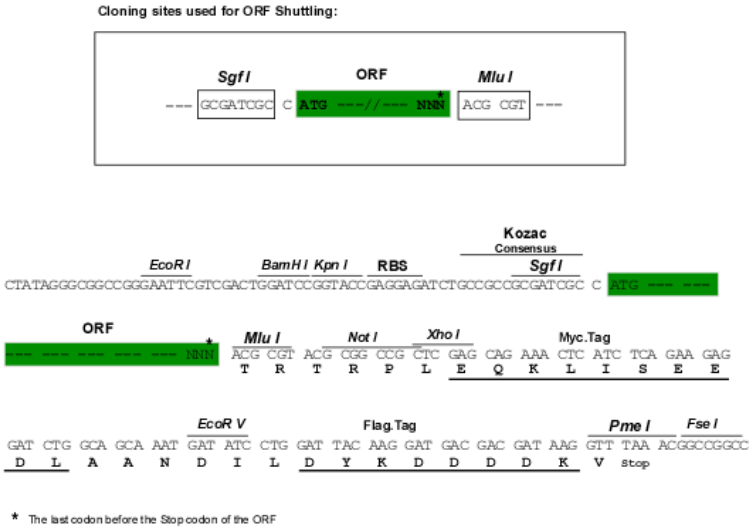
Restriction Sites: SgfI-MluI

Cloning Scheme:



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:
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

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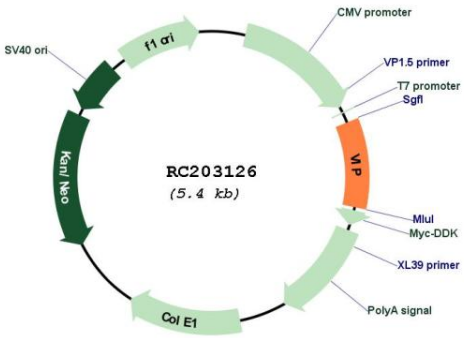
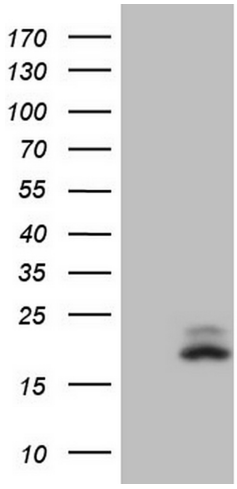
Cytogenetics:	6q25.2
Domains:	GLUCA
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
MW:	19.1 kDa
Gene Summary:	The protein encoded by this gene belongs to the glucagon family. It stimulates myocardial contractility, causes vasodilation, increases glycogenolysis, lowers arterial blood 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]

Product images:



Circular map for RC203126



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.

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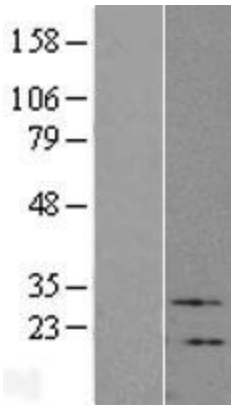

Western blot validation of overexpression lysate (Cat# [LY418679]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203126 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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