

Product datasheet for **RC205337**

VILIP1 (VSNL1) (NM_003385) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VILIP1 (VSNL1) (NM_003385) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VILIP1
Synonyms:	HLP3; HPCAL3; HUVISL1; VILIP; VILIP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205337 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGGGAAGCAGAATAGCAAAGTGGCCCTGAAGTGATGGAGGACCTGGTGAAGAGCACAGAGTTTAATG
AGCATGAAGTCAAGCAGTGGTACAAAGGATTTCTCAAGGACTGTCCAAGTGGGAGGCTAAATCTCGAGGA
ATTTGAGCAGCTCTATGTGAAGTTCTTCTTATGGAGACGCTCCAAGTTGCCAGCATGCCTTCCGA
ACCTTCGACAAGAATGGGACGGCACCATTGACTTCGAGAGTTCATCTGCGCTCTGTCCATCACCTCCA
GGGGCAGCTTTGAGCAGAAGCTGAAGTGGCCTTCAATATGTATGACCTGGATGGTATGGCAAGATCAC
CCGAGTGGAGATGCTGGAGATCATCGAGGCTATCTACAAATGGTAGGCACTGTGATCATGATGAAATG
AATGAGGATGGCCTGACGCTGAGCAGCGAGTAGACAAGATTTTCAGCAAGATGGATAAGAACAAGATG
ACCAGATTACACTGGATGAATCAAAGAAGCTGCAAGAGCGACCCTTCCATTGTATTACTTCTGCAGTG
CGACATCCAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC205337 protein sequence Red=Cloning site Green=Tags(s)
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MGKQNSKLAPEVMEDLVKSTEFNEHELKQWYKGLKDCPSGRNLLEEFQQLYVKFFPYGDASKFAQHAFR
TFDKNGDGTIDFREFICALSITSRGSFEQKLNWAFNMYDLGDGKITRVEMLIEIAIYKMGVTVIMMKM
NEDGLTPEQRVDKIFSKMDKNKDDQITLDEFKEAAKSDPSIVLLQLQCDIQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk6314_d03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003385

ORF Size: 573 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.

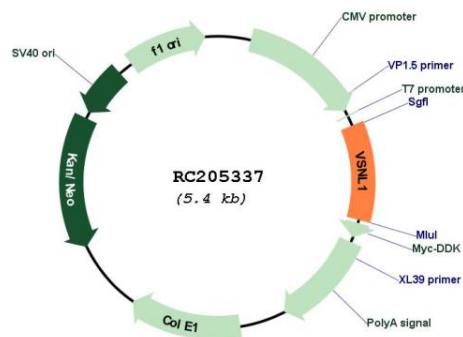
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_003385.5](#)

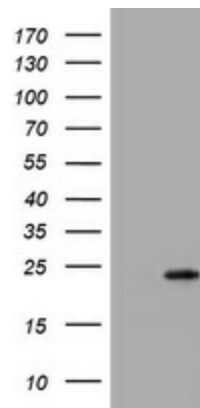
RefSeq Size: 2014 bp

RefSeq ORF:	576 bp
Locus ID:	7447
UniProt ID:	P62760
Cytogenetics:	2p24.2
Domains:	EFh
Protein Families:	Druggable Genome
MW:	22.1 kDa
Gene Summary:	This gene is a member of the visinin/recoverin subfamily of neuronal calcium sensor proteins. The encoded protein is strongly expressed in granule cells of the cerebellum where it associates with membranes in a calcium-dependent manner and modulates intracellular signaling pathways of the central nervous system by directly or indirectly regulating the activity of adenylyl cyclase. Alternatively spliced transcript variants have been observed, but their full-length nature has not been determined. [provided by RefSeq, Jul 2008]

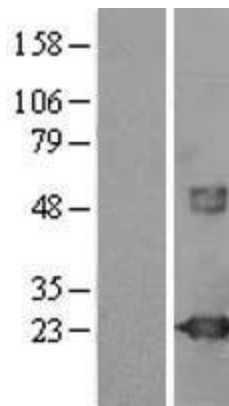
Product images:



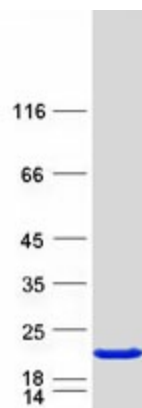
Circular map for RC205337



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY VSNL1 (Cat# RC205337, 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-VSNL1 (Cat# [TA801897]). Positive lysates [LY418720] (100ug) and [LC418720] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418720]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205337 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VSNL1 protein (Cat# [TP305337]). The protein was produced from HEK293T cells transfected with VSNL1 cDNA clone (Cat# RC205337) using MegaTran 2.0 (Cat# [TT210002]).