

# **Product datasheet for RC232068**

## OriGene Technologies, Inc.

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### VILIP3 (HPCAL1) (NM\_001258357) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: VILIP3 (HPCAL1) (NM\_001258357) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: VILIP3

Synonyms: BDR1; HLP2; VILIP-3

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC232068 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGGCAAACAGAACAGCAAGCTGCGGCCCGAGGTGCTGCAGGACCTGCGGGAGAACACGGAGTTCACCG
ACCACGAGCTGCAGGAGTGGTACAAGGGCTTCCTCAAGGACTGCCCCACCGGCCACCTGACCGTGGACGA
GTTCAAGAAGATCTACGCCAACTTCTTCCCCTACGGCGACGCTTCCAAGTTCGCCGAGCACGTCTTCCGC
ACCTTCGACACCCAACGGCGACGCACCATCGACTTCCGGGAGTTCATCATTGCGCTGAGCGTGACCTCGC
GGGGCAAGCTGGAGCAGAAGCTCAAGTGGGCCTTCAGCATGTACGACCTGGACGGCAACGGCTACATCAG
CCGCAGCGAGATGCTGGAGATCGTGCAGGCCATCTACAAGATGGTGTCGTCTGTGATGAAGATGCCGGAG
GATGAGTCCACCCCGGAGAAGCGCACAGACAAGATCTTCAGGCAGATGGACACCAACAATGACGGCAAAC
TGTCCTTGGAAGAATTCATCAGAGGTGCCAAGAGCGACCCCTCCATCGTCCGCCTGCTGCAGTGCGACCC

CAGCAGTGCCAGTCAGTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC232068 protein sequence

Red=Cloning site Green=Tags(s)

MGKQNSKLRPEVLQDLRENTEFTDHELQEWYKGFLKDCPTGHLTVDEFKKIYANFFPYGDASKFAEHVFR TFDTNGDGTIDFREFIIALSVTSRGKLEQKLKWAFSMYDLDGNGYISRSEMLEIVQAIYKMVSSVMKMPE

DESTPEKRTDKIFRQMDTNNDGKLSLEEFIRGAKSDPSIVRLLQCDPSSASQF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



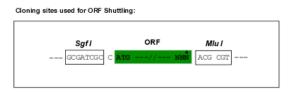


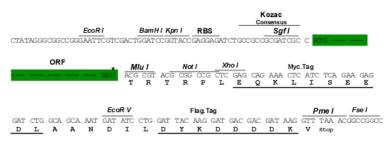
Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk6424">https://cdn.origene.com/chromatograms/mk6424</a> g01.zip

Restriction Sites:

Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_001258357

ORF Size: 579 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: <u>NM 001258357.1, NP 001245286.1</u>

RefSeq Size: 1553 bp
RefSeq ORF: 582 bp
Locus ID: 3241



 UniProt ID:
 P37235

 Cytogenetics:
 2p25.1

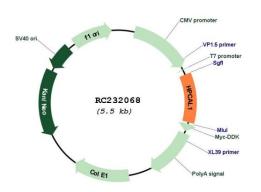
 MW:
 22.3 kDa

**Gene Summary:** The protein encoded by this gene is a member of neuron-specific calcium-binding proteins

family found in the retina and brain. It is highly similar to human hippocalcin protein and nearly identical to the rat and mouse hippocalcin like-1 proteins. It may be involved in the calcium-dependent regulation of rhodopsin phosphorylation and may be of relevance for neuronal signalling in the central nervous system. Several alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Apr

2012]

### **Product images:**



Circular map for RC232068