

Product datasheet for RG232070

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VILIP3 (HPCAL1) (NM_001258359) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: VILIP3 (HPCAL1) (NM_001258359) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: HPCAL1

Synonyms: BDR1; HLP2; VILIP-3

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG232070 representing NM_001258359
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGGCAAACAGAACAGCAAGCTGCGGCCCGAGGTGCTGCAGGACCTGCGGGAGAACACGGAGTTCACCG
ACCACGAGCTGCAGGAGTGGTACAAGGGCTTCCTCAAGGACTGCCCCACCGGCCACCTGACCGTGGACGA
GTTCAAGAAGATCTACGCCAACTTCTTCCCCTACGGCGACGCTTCCAAGTTCGCCGAGCACGTCTTCCGC
ACCTTCGACACCAACGGCGACGGCACCATCGACTTCCGGGAGTTCATCATTGCGCTGAGCGTGACCTCGC
GGGGCAAGCTGGAGCAGAAGCTCAAGTGGGCCTTCAGCATGTACGACCTGGACGGCAACGGCTACATCAG
CCGCAGCGAGATGCTGGAGATCGTGCAGGCCATCTACAAGATGGTGTCGTCTGTGATGAAGATGCCGGAG
GATGAGTCCACCCCGGAGAAAGCGCACAAGAACATCTTCAGGCAGATGGACACCAACAATGACGGCAAAC
TGTCCTTGGAAGAATTCATCAGAGGTGCCAAGAGCGACCCCTCCATCGTCCGCCTGCTGCAGTGCGACCC

CAGCAGTGCCAGTCAGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG232070 representing NM_001258359

Red=Cloning site Green=Tags(s)

DESTPEKRTDKIFRQMDTNNDGKLSLEEFIRGAKSDPSIVRLLQCDPSSASQF

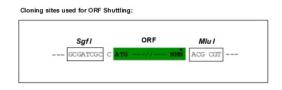
TRTRPLE - GFP Tag - V

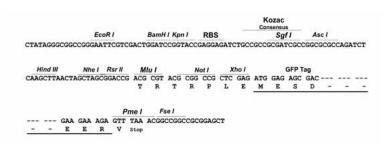
Restriction Sites: Sgfl-Mlul



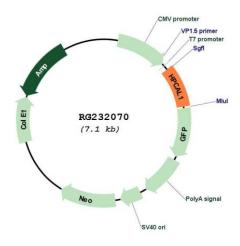


Cloning Scheme:





Plasmid Map:



ACCN: NM_001258359

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 001258359.1</u>, <u>NP 001245288.1</u>

 RefSeq Size:
 1959 bp

 RefSeq ORF:
 582 bp

 Locus ID:
 3241

 UniProt ID:
 P37235

 Cytogenetics:
 2p25.1

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]