

Product datasheet for **RG232070**

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 Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG232070 representing NM_001258359
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCAAACAGAACAGCAAGCTGCGGCCGAGGTGCTGCAGGACCTGCGGGAGAACACGGAGTTCACCG
 ACCACGAGCTGCAGGAGTGGTACAAGGGCTTCCTCAAGGACTGCCACCGGCCACCTGACCGTGGACGA
 GTTCAAGAAGATCTACGCCAATCTTCCCTACGGCAGCGTTCGAAGTTCGCCGAGCAGCTTCCGC
 ACCTTCGACACCAACGGCAGCGCACCATCGACTCCGGGAGTTCATCATTGCGTGAGCGTGACCTCGC
 GGGCAAGCTGGAGCAGAAGCTCAAGTGGCCTTCAGCATGTACGACCTGGACGGCAACGGCTACATCAG
 CCGCAGCGAGATGCTGGAGATCGTGCAGGCCATCTACAAGATGGTGTCTGTGATGAAGATGCCGGAG
 GATGAGTCCACCCGGAGAAGCGCACAGACAAGATCTTCAGGCAGATGGACCAACAATGACGGCAAAC
 TGTCTTGAAGAATTCATCAGAGGTGCCAAGAGCGACCCCTCCATCGTCCGCTGCTGCAGTGCGACCC
 CAGCAGTGCCAGTCAGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG232070 representing NM_001258359
 Red=Cloning site Green=Tags(s)

MGKQNSKLRPEVLQDLRENTEFTDHELQEWYKGFLLKDCPTGHLTVDEFKKIYANFFPYGDASKFAEHVFR
 TFDTNGDGTIDFREFIIALSVTSRGKLEQLKWAFSMYDLGNGYISRSEMLEIVQAIYKMVSSVMKMP
 DESTPEKRTDKIFRQMDTNDGKLSLEEFIRGAKSDPSIVRLLQCDPSSASQF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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_001258359.1](#), [NP_001245288.1](#)

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]