

Product datasheet for **RG203570**

VILIP3 (HPCAL1) (NM_002149) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: VILIP3 (HPCAL1) (NM_002149) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: VILIP3
Synonyms: BDR1; HLP2; VILIP-3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203570 representing NM_002149
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAAACAGAACAGCAAGCTGCGGCCGAGGTGCTGCAGGACCTGCGGGAGAACACGGAGTTCACCG
ACCACGAGCTGCAGGAGTGGTACAAGGGCTTCTCAAGGACTGCCACCGGCCACCTGACCGTGGACGA
GTTCAAGAAGATCTACGCCAATCTTCCCTACGGCAGCGTTCGAAGTTCGCCGAGCAGCTTCCGC
ACCTTCGACACCAACGGCAGCGCACCATCGACTCCGGGAGTTCATCATTGCGTGAGCGTGACCTCGC
GGGCAAGCTGGAGCAGAAGCTCAAGTGGCCTTCAGCATGTACGACCTGGACGGCAACGGCTACATCAG
CCGACGAGATGCTGGAGATCGTGCAGGCCATCTACAAGATGGTGTCTGTGATGAAGATGCCGGAG
GATGAGTCCACCCGGAGAAGCGCACAGACAAGATCTTCAGGCAGATGGACCAACAATGACGGCAAAC
TGTCTTGAAGAATTCATCAGAGGTGCCAAGAGCGACCCCTCCATCGTCCGCTGCTGCAGTGCAGCC
CAGCAGTGCCAGTCAGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203570 representing NM_002149
Red=Cloning site Green=Tags(s)

MGKQNSKLRPEVLQDLRENTFTDHELQEWYKGFLLKDCPTGHLTVDEFKKIYANFFPYGDASKFAEHVFR
TFDTNGDGTIDFREFIIALSVTSRGLKLEQLKWAFSMYDLGNGYISRSEMLEIVQAIYKMSVSMKMP
DESTPEKRTDKIFRQMDTNDGKLSLEEFIRGAKSDPSIVRLLQCDPSSASQF

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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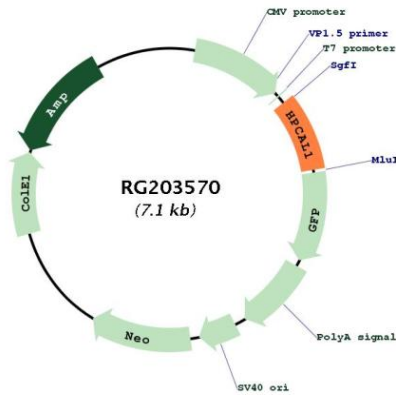
Cloning Scheme:


- ACCN:** NM_002149
- 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:** [NM_002149.4](#)
- RefSeq Size:** 1769 bp
- RefSeq ORF:** 582 bp
- Locus ID:** 3241
- UniProt ID:** [P37235](#)
- Cytogenetics:** 2p25.1

Domains: EFh

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 RG203570