

## Product datasheet for **SC118780**

### VILIP3 (HPCAL1) (NM\_002149) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VILIP3 (HPCAL1) (NM_002149) Human Untagged Clone
Tag:	Tag Free
Symbol:	VILIP3
Synonyms:	BDR1; HLP2; VILIP-3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118780 sequence for NM_002149 edited (data generated by NextGen Sequencing)

```
ATGGGCAAACAGAACAGCAAGCTGCGGCCGAGGTGCTGCAGGACCTGCGGGAGAACACG
GAGTTCACCGACCACGAGCTGCAGGAGTGGTACAAGGGCTTCCTCAAGGACTGCCCCACC
GGCCACCTGACCGTGGACGAGTTCAAGAAGATCTACGCCAACTTCTCCCTACGGCGAC
GCTTCCAAGTTCGCCGAGCACGTCTCCGCACCTTCGACACCAACGGCGACGGCACCATC
GACTTCCGGGAGTTCATCATTGCGCTGAGCGTGACCTCGCGGGGCAAGCTGGAGCAGAAG
CTCAAGTGGGCCTTCAGCATGTACGACCTGGACGGCAACGGCTACATCAGCCGCAGCGAG
ATGCTGGAGATCGTGCAGGCCATCTACAAGATGGTGTGCTGTGATGAAGATGCCGGAG
GATGAGTCCACCCGGAGAAGCGCACAGACAAGATCTTCAGGCAGATGGACACCAACAAT
GACGGCAAACGTCTTGAAGAATTCATCAGAGGTGCCAAGAGCGACCCCTCCATCGTC
CGCCTGCTGCAGTGCGACCCAGCAGTGCCAGTCAGTTCTGA
```

Clone variation with respect to NM\_002149.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002149 unedited  
TATACGACCTCACTATAGGGCGGCCCGGAATTCGCACGAGGCTTCCTTCCCGGAGCTGG  
CAGGCGGGCCGCGGGCGGGCGGGCAGCGGACGGGCGGACTGACGGGCGCCTCCACCTTG  
CTCCCTCCCTGGCTGCCGGCTTCTTTTGTCTTTCTGGGCGGCGATGAGCGCAGGGCCGG  
CGCAGCAGCTGCCGGCGCACGGAGGCCCGCGCTGCTAGTACTCTCCCGGCTCGGCGC  
GCTTGTCCCGGGCAGCGGCCCGGGCCCGCTGCAGCCGCCGGCGCCGAACTTGGGCTC  
GGGAAGCCGGCGACCGCGTCTCGCCGGAGCAGGGGCATGGTCTAGTGGCCAGTCAG  
GACGCGGAAACACTCCCTGGAGTTCTGACCCACTCCCTCTCAGCCTCCGCTGGTCTCT  
GGTGTAGTCGCCGCCAGCCGCCATGGGCAAACAGAACAGCAAGCTGCGGCCCGAGGT  
GCTGCAGGACCTGCGGGAGAACACGGAGTTCACCGACCACGAGCTGCAGGAGTGGTACAA  
GGGCTTCTCAAGGACTGCCCCACGGCCACTGACCGTGGACGAGTTCAAGAAGATCTA  
CGCAACTTCTCCCTACGGCGACGCTTCCAAGTTCGCCGAGCAGCTTCCGCACCTT  
CGACACCAACGGCGACGGCACCATCGACTTNCGGGNAGTTCATCATTGCGCTGAGCGTGA  
CCTCGCGGGCAAGCTGGAGCAGAAGCTCAGTGGCCTTACGATGTACGACCTGGACGGC  
ACGGCTACATCANCCGCACGAGAGCTTGGAGATCGTGCAGCCATCTCAANNATAGGTGTC  
NTCTGTGATGAAAATGCCCGAAGGAGANTCCACCCNAGAGCGCCAGACAGATCTTCAGC  
AGATGACACC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002149 unedited  
CGCGGCCCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTTTTTTATTTATCATTTTAATACC  
GGAAATGCCAGACCAATCAACAGGGGAGGACAGACCAGACACAAATGCCTGTGCTACAA  
CACGGATGGGAGGATCATCACGGCTCAGGGCACACATGCATTTCTTAGAAACAGGCAGA  
CAAAGAGAGCATAAATACCACACAACAGCCAGGCTCAGGGGGCTGCGGGCCACAGAGGGC  
TGGCTTCAAAGGCAGTCAGAGGCATTAATACGGGACCTACACAATACTCCACTTCA  
CCATACATAATTTATATATTTAAAAGAAAGGGGACCACAGTATCTATACGTGCAAGCGGT  
GTGGTGGAGAAAATGAACGGGGGGCAGCCATGCACGGGAGGGGCTCCCTGTATACCCTC  
CCGACGCCTCGTCCCCACCCTTCCACAGAGTCACTTGGGATCACAAAACGCATGGGCCG  
GCCGGGGCGCAGCCTCGGGAGGTCTGCCTGGTCTCCTCGGCATGGACCTCTGAGCTCCC  
CGTGAGCCGGGAGGTGCCTGGAACCAAGAACACTTGAACCCTGCATGTACCCACATCCCT  
GGGAGTTGCCCTGGAAGGGACCGGGCCAGGCGTGAGGGGAGGAATGTCGCGTTGGTCAAG  
TGGAGGAGGGAGGCGCAGCCACCGGGCCGGGAGGTGCAACGCATGCCCCAGGCCGGTG  
CCCCGGGAGAGCATGAACGATTGCNNGCATCCACTCTTGACAGCAAAGCTTAAACGCACG  
ACAAGCCTGTGTTTCTCTGCACTGTCCAGGGGCCGCTCGCTCAAACACTGACTGCACTGCTG  
GGGTCCACTGCACAGGCGACATGGGAGGGTCTCTTGCCTCTGATGATCTTCAGGAAN  
TTGCCGTTGGTGTGTACGGGTGAAATCTTGCTGGCCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002149

**Insert Size:**

1860 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_002149.2](#), [NP\\_002140.2](#)

**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]

Transcript Variant: This variant (1) differs in the 5' UTR compared to variant 5. All five variants encode the same protein.