

HPCAL1 cDNA

Catalog Number: ATGD0080

PRODUCT INFORMATION

Catalog number

ATGD0080

Product type

cDNA

Species

Human

NCBI Accession No.

NP_002140.2

Alternative Names

BDR1, HLP2, VILIP-3

mRNA Refseq

NM_002149.3

OMIM

600207

Chromosome location

2p25.1

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

582bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted Nde I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

HPCAL1 cDNA

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HPCAL1, also known as VILIP-3, 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 is involved in the calcium-dependent regulation of rhodopsin phosphorylation and may be of relevance for neuronal signalling in the central nervous system.

DATA

Sequence nucleotides

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ATGGGCAAAC AGAACAGCAA GCTGCGGCC GAGGTGCTGC AGGACCTGCG GGAGAACACG GAGTTCACCG
ACCACGAGCT GCAGGAGTGG TACAAGGGCT TCCTCAAGGA CTGCCCCACC GGCCACCTGA CCGTGGACGA
GTTCAAGAAG ATCTACGCCA ACTTCTTCCC CTACGGCGAC GCTTCCAAGT TCGCCGAGCA CGTCTTCCGC
ACCTTCGACA CCAACGGCGA CGGCACCATC GACTTCCGGG AGTTCATCAT TGCGCTGAGC GTGACCTCGC
GGGGCAAGCT GGAGCAGAAG CTCAAGTGGG CCTTCAGCAT GTACGACCTG GACGGCAACG GCTACATCAG
CCGAGCGAG ATGCTGGAGA TCGTGCAGGC CATCTACAAG ATGGTGTCGT CTGTGATGAA GATGCCGGAG
GATGAGTCCA CCCC GGAGAA GCGCACAGAC AAGATCTTCA GGCAGATGGA CACCAACAAT GACGGCAAAC
TGTCTTGGA AGAATTCATC AGAGGTGCCA AGAGCGACCC CTCCATCGTC CGCCTGCTGC AGTGCGACCC
CAGCAGTGCC AGTCAGTTCT GA
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Transaction Sequence

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MGKQNSKLRP EVLQDLRENT EFTDHELQEW YKGF LKDCPT GHLTVDEFKK IYANFFPYGD ASKFAEHVFR TFDTNGDGTI
DFREFIIALS VTSRGKLEQK LKWAFSMYDL DGNGYISRSE MLEIVQAIYK MVSSVMKMPE DESTPEKRTD KIFRQMDTNN
DGKLSLEEFI RGA KSDPSIV RLLQCDPSSA SQF
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