

Product datasheet for **SC114361**

HPCAL4 (NM_016257) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HPCAL4 (NM_016257) Human Untagged Clone
Tag:	Tag Free
Symbol:	HPCAL4
Synonyms:	HLP4
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_016257, the custom clone sequence may differ by one or more nucleotides

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ATGGGGAAGACCAACAGCAAGCTGGCCCCGAGGTGCTGGAGGACCTTGTTTCAGAACACTGAGTTCAGCG  
AGCAGGAGCTGAAGCAGTGGTACAAGGGCTTCTGAAGGACTGCCCCAGCGGCATCCTCAACCTGGAGGA  
GTTTCAGCAGCTCTACATCAAGTTCTTCCCTACGGCGACGCCTCCAAGTTCGCGCAGCACGCTTCCGC  
ACCTTCGACAAGAACGGCGACGGCACCATCGACTTCCGGGAGTTCATCTGCGCCCTGTCGGTCACCTCCC  
GCGGCAGCTTCGAGCAGAAGCTCAACTGGGCCTTTGAGATGTACGACCTGGACGGCGACGGGCGCATCAC  
GCGCCTGGAGATGCTGGAGATCATCGAGGCAATCTACAAGATGGTGGGCACCGTGATCATGATGCGCATG  
AACCAGGACGGGCTCACGCCAGCAGCGTGTGGACAAGATCTTCAAGAAGATGGACCAGGATAAGGACG  
ACCAGATTACATTGGAGGAGTTCAAGGAGGCAGCCAAGAGTGACCCATCCATTGTGTTGCTGCTGCAGTG  
TGACATGCAGAAGTAG
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_016257 unedited NGTTCACATTTGTATACGACTCCTATAGGCGGCNCGCGATTTCGGCAGCAGGCCTTGGAGA GCACAGCTGCCGGCCCGCAGCCAGCCTCGGTTCCCGCGGCCCGCAGGCTCGGAGCCA TCCAGCGACCCGGCGACCCGGCCTCAGGCCCGCCATGGGGAAGACCAACAGCAAGCTGGC CCCCAGGTGCTGGAGGACCTTGTTCAGAACTGAGTTCAGCGAGCAGGAGCTGAAGCA GTGGTACAAGGGCTTCTGAAGGACTGCCCCAGCGGCATCCTCAACCTGGAGGAGTTTCA GCAGCTTACATCAAGTTCTTCCCCTACGGCGACGCCTCCAAGTTCGCGCAGCACGCTTT CCGCACCTTCGACAAGAACGGCGACGGCACCATCGACTTCCGGGAGTTTCTGCGCCCT GTCGGTACCTCCCGCGCAGCTTCGAGCAGAAGCTCAACTGGGCCTTTGAGATGTACGA CCTGGACGGCGACGGGCAATCACGCGCCTGGAGATGCTGGAGATCATCGAGGCAATCTA CAAGATGGTGGCACCGTGATCATGATGCGCATGAACCAGGACGGGCTCACGCCCCAGCA GCGTGTGGACAAGATCTTCAAGAAGATGGACCAGGATAAGGACGACCAGATTACATTGGA GGAGTTCAAGGAGGCAGCAAGAGTGACCCATCCATTGTNGTGTCTGCAGTGTGACAT GCANAAGTAGAAGCTGGTGAAGGGCAGGNTCCCTGGCCAGAAAGGGCATGGCCACCTCCA ACCTGATGACCTCTGCTGGCTGCCCTCCCAGGAGGAGGACACTCCAGCCCCCTCTCTGG CCCACCCAGTCTCTGCCAAGCCCTTNTCTCCCCTCATCAAGATCTTTGAGGGACCAC CTCACCC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_016257 unedited ATGGCCGCGCCCAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTACACAGTTGCACCT TTTATTCACTTGTGAGTGGGAAAAGAAAACACACCACACAGCAGGGTTGAGCAGTG AGGGCAGTCACTGAGTGCACAGCCAGAAGCAGCACATCTGGAGGGGATAGGGGGTACAC TGGAACTGGCCTCCTTCCCCTGCTACCCAGACCCCCCTTCCCCAAGCCTCCTTTCTAC TGCTGCTTAAAAGGCCCTGGCCTGACTGGCCTCCACCAAGCAGGAAGGGCTATACACC TGGCAGGCCAGTCTGCCCCACACTCTGGCAAAGTAAAAAGAAAACCTCGAAAATTC CAGAAAGAAAATCCCATATTTTTCTGACTTTTTAATTCCAAGTTTGAATTATTTCTTTT TTCAAGAATGATGAATAAACATGTAAGACATTCTTGACCCACAGTGATCTCTAAAGTC AGCTCAAAGCCTCACCCAGGGGGATCTTTAGGAAATATTTGTGCTCCAATACATTTTT GTGTAATAAATATTCAAGTCCACCTTACTACCCTGCCTGGAGACCCAGCTCCCTCCCTT CTTCCCTTTNTTTTCTTCCCCCATCCCAGCCATTTCTTCTCTCTGTCAGCACGGCAA ATTCTACCTCTAGAGACTCTGCCCTTGTGAGGAAAGGATTCACCGCCCTTACTTACGAC ACCACCTTTTCTCCACTTTTGACCCAGGGAAGCCACAACCCCCGCAAGCCGAAAGG ATTAAGTGGCATCTGAAGCACCCCTGACCCCTTAGACAACCAAAAACAGCCTAT AACCACCCAACACGATAACGCCGGCTCCCCCGGCATAACCCACATCTCGCACCCCTC ACCAAGTTGTGACAAAACGGCACACCGATCGCTGCACCCCAAGTCGCGACCCGCTTCTC CGCCCCGTCCGCCCTCCCCCCTTCCC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_016257
Insert Size:	4530 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_016257.2](#), [NP_057341.1](#)

RefSeq Size: 4277 bp

RefSeq ORF: 576 bp

Locus ID: 51440

UniProt ID: [Q9UM19](#)

Cytogenetics: 1p34.2

Domains: EFh

Gene Summary: The protein encoded by this gene is highly similar to human hippocalcin protein and hippocalcin like-1 protein. It also has similarity to rat neural visinin-like Ca²⁺-binding protein-type 1 and 2 proteins. This encoded protein may be involved in the calcium-dependent regulation of rhodopsin phosphorylation. The transcript of this gene has multiple polyadenylation sites. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2013]

Transcript Variant: This variant (1) and variant 2 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.