

Product datasheet for **RG236431**

HPCAL4 (NM_001282396) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HPCAL4 (NM_001282396) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HPCAL4
Synonyms: HLP4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236431 representing NM_001282396.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGAAGACCAACAGCAAGCTGGCCCCGAGGTGCTGGAGGACCTTGTTCAGAACACTGAGTTCAGC
GAGCAGGAGCTGAAGCAGTGGTACAAGGGCTTCTGAAGGACTGCCCCAGCGGCATCCTCAACCTGGAG
GAGTTTCAGCAGCTCTACATCAAGTTCTTCCCCTACGGCGACGCCTCCAAGTTCGCGCAGCACGCTTTC
CGCACCTCGACAAGAACGGCGACGGCACCATCGACTTCCGGGAGTTCATCTGCGCCTGTCGGTCACC
TCCCGCGCAGCTTCGAGCAGAAGCTCAACTGGGCCTTTGAGATGTACGACCTGGACGGCGACGGGGCG
ATCACGCGCTGGAGATGCTGGAGATCATCGAGGCAATCTACAAGATGGTGGGCACCGTGATCATGATG
CGCATGAACCAGGACGGGCTCACGCCCCAGCAGGTGTGGACAAGATCTCAAGAAGATGGACCAGGAT
AAGGACGACCAGATTACATTGGAGGAGTTCAAGGAGGCAGCCAAGAGTGACGCATCCATTGTGTGCTG
CTGCAGTGTGACATGCAGAAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236431
Blue=ORF Red=Cloning site Green=Tag(s)

```
MGKTNSKLAPEVLEDLVQNTFSEQLKQYKGLKDCPSGILNLEEFQQLYIKFFPYGDASKFAQHAF
RTFDKNGDGTIDFREFICALSVTSRGSFEQKLNWAFEMYDLGDGRITRLEMLEIIEAIYKMGVTIVIM
RMNQDGLTPQQRVDKIFKKMDQDKDDQITLEEFKEAAKSDASIVLLLQCDMQK
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSPGYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVDSHMHFSAIHPISILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

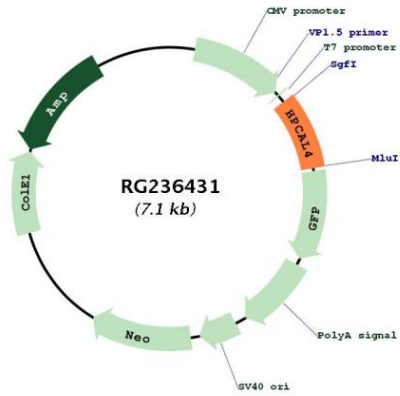
Restriction Sites: SgfI-MluI



Cloning Scheme:


- ACCN:** NM_001282396
- ORF Size:** 573 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).
- RefSeq:** [NM_001282396.1](#), [NP_001269325.1](#)
- RefSeq Size:** 4776 bp
- RefSeq ORF:** 576 bp
- Locus ID:** 51440
- UniProt ID:** [Q9UM19](#)
- Cytogenetics:** 1p34.2
- MW:** 22.2 kDa
- 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]

Product images:



Circular map for RG236431