

Product datasheet for **RR201198**

Hpcal4 (NM_017357) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hpcal4 (NM_017357) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hpcal4
Synonyms: Nvjp2; NVP-2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR201198 representing NM_017357
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGAAGAACAATAGCAAGCTGGCCCTGAGGAGCTGGAAGATCTGGTCCAGAACACGGAGTTCAGCG
 AGCAGGAGCTAAAGCAGTGGTATAAGGGTTTCTGAAGGACTGCCCCAGCGGCATCTCAACCTGGAGGA
 GTTTCAGCAACTCTACATCAAGTTCTTTCCTTACGGAGACGCCTCCAAGTTTGCACAGCATGCTTCCCG
 ACCTTCGACAAGAACGGGATGGCACCATCGACTTCCGGGAGTTCATCTGCGCCCTTTCTGTACCTCCC
 GTGGCAGCTTTGAGCAGAAGCTCAACTGGGCCTTTGAGATGTACGACCTGGACGGTGATGGACGCATCAC
 ACGGCTGGAGATGCTGGAGATCATTGAGGCTATCTATAAGATGGTGGCACCGTGATCATGATGCGCATG
 AACCAGGATGGGCTCACGCCACGACGCGTAGACAAGATCTTCAAGAAGATGGACCAGGATAAGGATG
 ACCAGATTACGCTGGAGGAGTTCAAGGAGGCGCCAAGAGTGACCCGTCCATCGTGTGCTGTTGCAATG
 TGACATGCAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201198 representing NM_017357
 Red=Cloning site Green=Tags(s)

MGKNNSKLAPEELEDLVQNTFSEQLKQWYKGLKDCPSGILNLEEFQQLYIKFFPYGDASKFAQHAFR
 TFDKNGDGTIDFREFICALSVTSRGSFEQKLNWAFEMYDLGDGRITRLEMLEIIEAIYKMGVTVIMMRM
 NQDGLTPQQRVDKIFKKMDQDKDDQITLEEFKEAAKSDPSIVLLLLQCDMQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

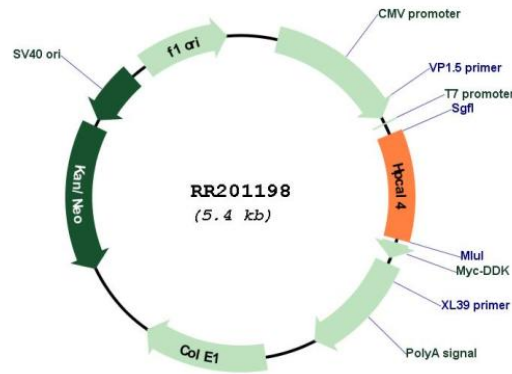
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_017357

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).

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_017357.1](#), [NP_059053.1](#)

RefSeq Size: 663 bp

RefSeq ORF: 576 bp

Locus ID: 50872

UniProt ID: [P35332](#)

Cytogenetics: 5q36

MW: 22.2 kDa

Gene Summary: Ca(2+)-binding protein [RGD, Feb 2006]