

Product datasheet for MR223748

Hpcal4 (NM_174998) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hpcal4 (NM_174998) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hpcal4
Synonyms: A1846570; NVP-2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR223748 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGAAAAACAACAGCAAGCTGGCCCCGAGGTGCTGGAAGACCTGGTCCAGAACACGGAGTTCAGCG
 AGCAGGAGCTAAAGCAGTGGTATAAGGGTTTCCTGAAGGACTGCCCCAGTGGCATCCTCAACCTGGAGGA
 GTTTCAGCAACTCTATATCAAGTCTTCCCTTATGGAGACGCGTCCAAGTTTGCAGCATGCTTTCCGC
 ACCTTCGACAAGAACGGCGATGGCACCATCGACTTCCGGGAGTTCATCTGCGCCCTTTCTGTACCTCCC
 GTGGCAGCTTCGAGCAGAAGCTCAACTGGCCCTTTGAGATGTACGATCTGGACGGTGACGCGCCATCAC
 ACGGCTGGAGATGCTGGAGATCATCGAGGCTATCTATAAGATGGTGGCACCGTATCATGATGCGCATG
 AACCAGGATGGGCTCACACCCAGCAGCGTGTGGACAAGATCTTCAAGAAGATGGACCAGGATAAGGATG
 ACCAGATTACGCTGGAGGAGTTCAAGGAGGCGCCAAGAGTGACCCGTCCATCGTGTGCTCCTGCACTG
 TGACATGCAGAAG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223748 protein sequence
 Red=Cloning site Green=Tags(s)

MGKNNKLAPVELEDLVQNTEFSEQLKQWYKGFLLKDCPSGILNLEEFQQLYIKFFPYGDASKFAQHAFR
 TFDKNGDGTIDFREFICALSVTSRGSFEQKLNWAFEMYDLGDGRITRLEMLEIEAIYKMGVTVIMMRM
 NQDGLTPQQRVDKIFKKMDQDKDDQITLEEFKEAAKSDPSIVLLLQCDMQK

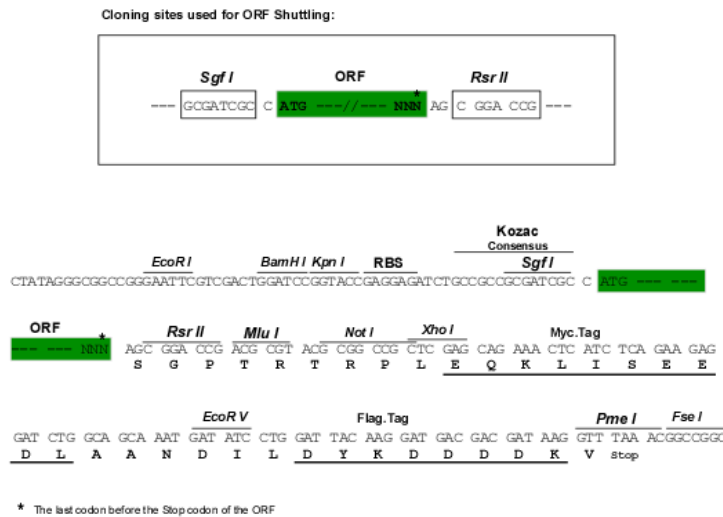
SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_174998

ORF Size: 576 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_174998.4](#), [NP_778163.1](#)

RefSeq Size: 4652 bp

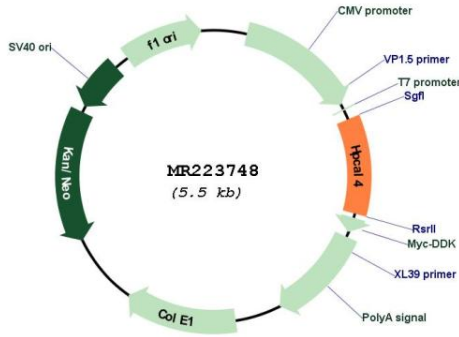
RefSeq ORF: 576 bp

Locus ID: 170638

UniProt ID: [Q8BGZ1](#)

Cytogenetics: 4 D2.2
MW: 22.2 kDa
Gene Summary: May be involved in the calcium-dependent regulation of rhodopsin phosphorylation. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223748