

Product datasheet for **MR228414**

Hpca (NM_001286083) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hpca (NM_001286083) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hpca
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR228414 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAAGCAGAACAGCAAGCTGCGGCCAGAGATGCTGCAGGACCTGCGAGAGAACACGGAGTTCTCTG
AGCTGGAGCTACAGGAGTGGTACAAGGGCTTCTGAAGGACTGCCCACTGGCATCTCAACGTGGATGA
GTTCAAGAAGATCTACGCCAACTTCTCCCTATGGCGACGCCTCCAAGTTTGCCGAGCAGCTCTCCGC
ACCTTTGACACCAACAGCGACGGCACCATCGACTCCGGGAGTTCATCATTGCTCTGAGCGTGACCTCGC
GTGGCCGCTGGAGCAGAAGCTCATGTGGCCCTCAGCATGTACCTGGATGGCAATGGCTACATCAG
CCGGGAGGAGATGCTAGAAATTGTGCAGGCCATTTACAAGATGGTTTCGTCCGTGATGAAAATGCCCGAG
GATGAGTCGACCCCGAAAAGAGGACTGAGAAAATCTCCGCCAAATGGACACAAACAATGACGGCAAGC
TGTGCTGGAGGAGTTCATCCGCGGAGCCAAAAGCGACCCATCCATCGTGCCTGCTGCAGTGTGATCC
CAGCAGCGCTCCAGTTC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228414 protein sequence
Red=Cloning site Green=Tags(s)

MGKQNSKLRPEMLQDLRENTFSELELQEWYKGFLLKDCPTGILNVDEFKKIYANFFPYGDASKFAEHVFR
TFDTNSDGTIDFREFIIALSVTSRGRLEQKLMWAFSMYDLGNGYISREEMLEIVQAIYKMVSSVMKMP
DESTPEKRTEKIFRQMDTNNDGKLSLEEFIRGAKSDPSIVRLLQCDPSSASQF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_001286083

ORF Size: 579 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_001286083.1](#), [NP_001273012.1](#)

RefSeq Size: 1500 bp

RefSeq ORF: 582 bp

Locus ID: 15444

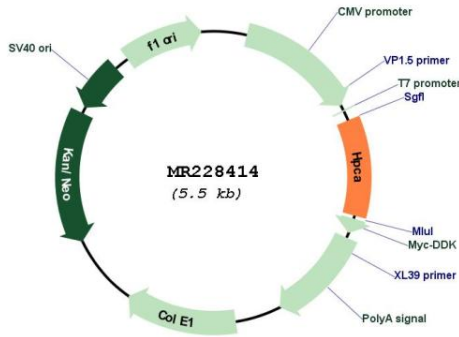
UniProt ID: [P84075](#)

Cytogenetics: 4 D2.2

MW: 22.4 kDa

Gene Summary: Calcium-binding protein that may play a role in the regulation of voltage-dependent calcium channels. May also play a role in cyclic-nucleotide-mediated signaling through the regulation of adenylate and guanylate cyclases.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR228414