

Product datasheet for **RR207866**

Hpca (NM_017122) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hpca (NM_017122) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hpca
Synonyms: MGC105450
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR207866 representing NM_017122
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGCAAGCAGAATAGCAAGCTGCGGCCAGAGATGCTGCAGGACCTGCGAGAGAACACCGAGTTCTCTG
AGCTGGAGCTTCAGGAGTGGTACAAGGGCTTCTGAAGGACTGCCGACTGGCATCTCAACGTGGATGA
GTTCAAGAAGATCTACGCCAACTTCTTCCCTACGGCGATGCCTCCAAGTTCGCCGAGCATGTCTCCGC
ACTTTTGACACCAACAGCGACGGCACCATCGACTTCCGGGAGTTCATCATCGCTCTGAGCGTGACCTCGC
GTGGCCGCTGGAGCAGAAGCTCATGTGGCCCTCAGCATGTACGACCTGGACGGCAATGGCTACATCAG
CCGGGAGGAGATGCTAGAAATTGTGCAGGCCATTTACAAGATGGTTTCGTCCGTGATGAAGATGCCTGAG
GATGAGTCTACCCCGAAAAGAGGACTGAGAAAATCTTCCGCAAATGGACACAAACAATGACGGCAAGC
TGCTACTGGAGGAGTTCATCCGCGGGGCCAAAAGCGACCCATCGATCGTGCCTGCTGCAATGCGATCC
CAGCAGCGCTTCCAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR207866 representing NM_017122
Red=Cloning site Green=Tags(s)

MGKQNSKLRPEMLQDLRENTFSELELQEWYKGLKDCPTGILNVDEFKKIYANFFPYGDASKFAEHVFR
TFDNTSDGTIDFREFIIALSVTSRGRLEQKLMWAFSMYDLGNGYISREEMLEIVQAIYKMVSSVMKMP
DESTPEKRTEKIFRQMDTNNDGKLSLEEFIRGAKSDPSIVRLLQCDPSSASQF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

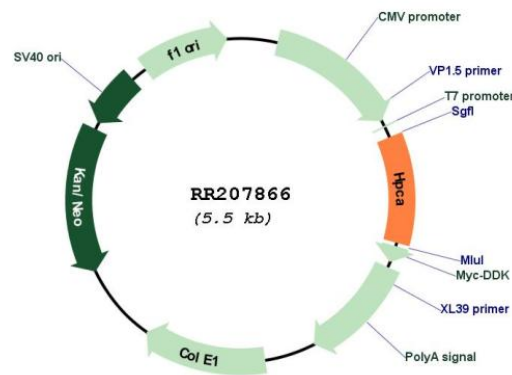


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Cloning Scheme:



Plasmid Map:



ACCN: NM_017122

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_017122.1](#), [NP_058818.1](#)

RefSeq Size: 1561 bp

RefSeq ORF: 582 bp

Locus ID: 29177

UniProt ID: [P84076](#)

Cytogenetics: 5q36

MW: 22.4 kDa

Gene Summary: calcium-binding protein of the recoverin family [RGD, Feb 2006]