

Product datasheet for **MG216283**

Hpca (NM_010471) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hpca (NM_010471) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Hpca
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG216283 representing NM_010471
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAAGCAGAACAGCAAGCTGCGGCCAGAGATGCTGCAGGACCTGCGAGAGAACACGGAGTTCTCTG
AGCTGGAGCTACAGGAGTGGTACAAGGGCTTCTGAAGGACTGCCCCACTGGCATCTCAACGTGGATGA
GTTCAAGAAGATCTACGCCAACTTCTCCCTATGGCGACGCCTCCAAGTTTGCCGAGCAGCTCTCCGC
ACCTTTGACACCAACAGCGACGGCACCATCGACTCCGGGAGTTCATCATTGCTCTGAGCGTGACCTCGC
GTGGCCGCTGGAGCAGAAGCTCATGTGGCCTTCAGCATGTATGACCTGGATGGCAATGGCTACATCAG
CCGGGAGGAGATGCTAGAAATTGTGCAGGCCATTTACAAGATGGTTTCGTCCGTGATGAAAATGCCCGAG
GATGAGTCGACCCCGAAAAGAGGACTGAGAAAATCTCCGCCAAATGGACACAAACAATGACGGCAAGC
TGTGCTGGAGGAGTTCATCCGCGGAGCCAAAAGCGACCCATCCATCGTGCCTGCTGCAGTGTGATCC
CAGCAGCGCTCCAGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216283 representing NM_010471
Red=Cloning site Green=Tags(s)

MGKQNSKLRPEMLQDLRENTFSELELQEWYKGFLLKDCPTGILNVDEFKKIYANFFPYGDASKFAEHVFR
TFDNTSDGTIDFREFIIALSVTSRGRLEQKLMWAFSMYDLGNGYISREEMLEIVQAIYKVMSSVMKMP
DESTPEKRTEKIFRQMDTNDGKLSLEEFIRGAKSDPSIVRLLQCDPSSASQF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

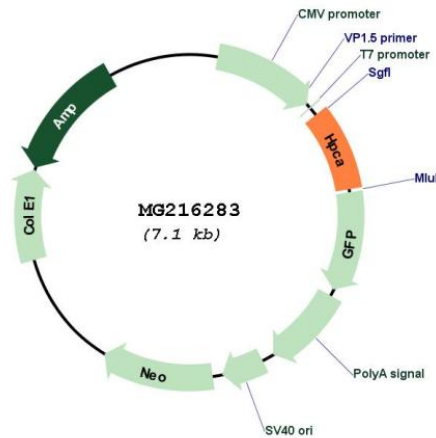


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Cloning Scheme:



Plasmid Map:



ACCN: NM_010471

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:	<ol style="list-style-type: none">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:	<u>NM_010471.4</u> , <u>NP_034601.1</u>
RefSeq Size:	1558 bp
RefSeq ORF:	582 bp
Locus ID:	15444
UniProt ID:	<u>P84075</u>
Cytogenetics:	4 D2.2
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]