

Product datasheet for **RG200511**

Hippocalcin (HPCA) (NM_002143) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hippocalcin (HPCA) (NM_002143) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HPCA
Synonyms: BDR2; DYT2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200511 representing NM_002143
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAAGCAGAACAGCAAGCTGCGGCCGAGATGTTGCAGGACCTGCGAGAGAACACAGAGTTCTCAG
AGCTGGAGCTGCAGGAGTGGTACAAGGGCTTCTCAAGGACTGCCCCACAGGAATCTCAATGTGGATGA
GTTCAAGAAGATCTACGCCAATCTTTCCCTATGGTGACGCCTCAAGTTTGCCGAGCAGCTCTCCGC
ACCTTTGACACCAACAGCGATGGCACCATAGACTTTCCGGAGTTCATCATTGCGTGAGCGTGACCTCGC
GCGGCCGCTGGAGCAGAAGCTCATGTGGCCTTCAGCATGTATGACCTGGACGCAACGGCTACATCAG
CCGGGAGGAGATGCTGGAGATCGTGCAGGCCATTTACAAGATGGTTTCGTCCGTGATGAAGATGCCGGAG
GACGAGTCGACCCGGAAAAGAGGACTGAGAAAATCTTCCGCCAAATGGACACAAACAACGACGGCAAGC
TGTCTTGAGGAGTTTATCCCGGGGGCCAAAAGCGACCCGTCATCGTGCGTCTGCTGCAGTGCGACCC
CAGCAGCGCTCCAGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200511 representing NM_002143
Red=Cloning site Green=Tags(s)

MGKQNSKLRPEMLQDLRENTFSELELQEWYKGFLLKDCPTGILNVDEFKKIYANFFPYGDASKFAEHVFR
TFDNTSDGTIDFREFIIALSVTSRGRLEQKLMWAFSMYDLGNGYISREEMLEIVQAIYKMVSSVMKMP
DESTPEKRTEKIFRQMDTNNNGKLSLEEFIRGAKSDPSIVRLLQCDPSSASQF

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

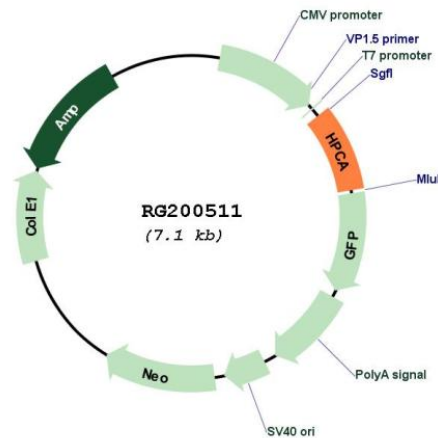


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Cloning Scheme:



Plasmid Map:



ACCN: NM_002143

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_002143.3](#)

RefSeq Size: 1440 bp

RefSeq ORF: 582 bp

Locus ID: 3208

UniProt ID: [P84074](#)

Cytogenetics: 1p35.1

Domains: EFh

Gene Summary: The protein encoded by this gene is a member of neuron-specific calcium-binding proteins family found in the retina and brain. This protein is associated with the plasma membrane. It has similarities to proteins located in the photoreceptor cells that regulate photosignal transduction in a calcium-sensitive manner. This protein displays recoverin activity and a calcium-dependent inhibition of rhodopsin kinase. It is identical to the rat and mouse hippocalcin proteins and thought to play an important role in neurons of the central nervous system in a number of species. [provided by RefSeq, Jul 2008]