

Product datasheet for RC236489

Chimaerin 2 (CHN2) (NM_001293079) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Chimaerin 2 (CHN2) (NM_001293079) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CHN2
Synonyms: ARHGAP3; BCH; CHN2-3; RHOGAP3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236489 representing NM_001293079
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTCTCTGAAGAACTGTGGCTGGAAAATGAGAAAAAGTGTGCTGTGGTTCGGAAGTCTAAGCAGGGCA
 GGAACGCCAAGAAGCTGTGGCCGTAGCCTTCGGGTGAAGGTGGGTGTCAAAGGCGCTTTCTTTGGCC
 CCCTCTCAAACCTTTTGCTGTTCACAGATCTCCTCCCTGGTTCGAAGGGCTGCCCTCACACACAACGAC
 AACCACTTCAATTATGAGAAGACACACAACCTTTAAGGTCCACACGTTCCGAGGCCACACTGGTGTGAAT
 ATGTGCAATTTTCATGTGGGGCTCATCGCCAAAGGGTCCGGTGTCTCAGACTGTGGATTGAACGTACA
 CAAACAGTGTCCAAGCACGTTCCCAATGACTGCCAACCTGATCTCAAGAGGATCAAGAAAGTGTACTGT
 TGTGACCTCACAACACTTGTGAAGGCTCACAACACTCAGAGACCCATGGTGGTAGACATATGCATTCCGG
 AAATTGAAGCAAGAGGATTAATTCGGAAGGCCTTTACAGAGTCTCTGGGTTCACTGAACACATTGAAGA
 TGTCAAAATGGCATTGACAGAGGGTTACTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236489 representing NM_001293079
 Red=Cloning site Green=Tags(s)

MFSEELWLENEKKCAVVRKSKQGRKRQELLAVAFGVKVGKGGFLWPPLKLFACSQISSLVRRALTHND
 NHFNYEKTHNFKVHTFRGPHWCEYCANFMWGLIAQGVRCSDCGLNVHKQCSKHVPNDQCPLDKRIKKVYC
 CDLTTLVKAHNTQRPVVVICIREIEARGLKSEGLYRVSGFTEHIEDVKMAFDRGLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

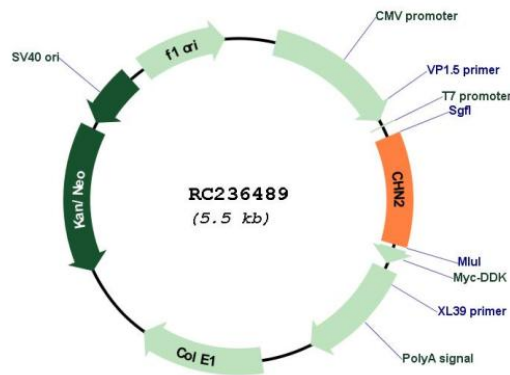


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001293079

ORF Size: 591 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_001293079.1](#), [NP_001280008.1](#)

RefSeq Size: 2771 bp

RefSeq ORF: 594 bp

Locus ID: 1124

UniProt ID: [P52757](#)

Cytogenetics: 7p14.3

MW: 23.1 kDa

Gene Summary: This gene encodes a guanosine triphosphate (GTP)-metabolizing protein that contains a phorbol-ester/diacylglycerol (DAG)-type zinc finger, a Rho-GAP domain, and an SH2 domain. The encoded protein translocates from the cytosol to the Golgi apparatus membrane upon binding by diacylglycerol (DAG). Activity of this protein is important in cell proliferation and migration, and expression changes in this gene have been detected in cancers. A mutation in this gene has also been associated with schizophrenia in men. Alternative transcript splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, May 2014]