

Product datasheet for **RC238312**

Chimaerin 2 (CHN2) (NM_001293072) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chimaerin 2 (CHN2) (NM_001293072) 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



[View online »](#)

ORF Nucleotide Sequence:

>RC238312 representing NM_001293072
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGCTGAAGAATACCAGCCTCTATATGGAAATCATACTTATATCAGTTACAGCAAGAGGCACCTC
 GTCCCAAGAGAATCATTGTCTCGGGAGGTGGAAAACAGACCAAATATTATGGAAGAGAGTTTCATGG
 GATCATCTCTCGGGAGCAGGCGGATGAGCTTCTTGAGGCGTGGAGGGTGCCTACATCCTTAGAGAAAGC
 CAGCGGCAACCAGGATGTACACGCTGGCTCTCAGGTTTGGAAACCAGACCTTAAACTACAGGCTCTTCC
 ACGACGGGAAACACTTTGTGGGTGAGAAGAGGTTTGTGTCGATTTCATGATCTGGTGACAGATGGCTTGT
 AACACTGTACATAGAAACAAAAGCTGCCGAGTACATTTCAAAAATGACAACCTAACCCCATCTATGAACAC
 ATTGGATATGCCACCCTACTCAGAGAAAAGTATCCAGAAGGCTGAGCAGGTCTAAAAATGAACCAAGAA
 AAACAAACGTACACATGAAGAACACACAGCGGTGAAAAAGATCTCTCCCTGGTTCGAAGGGCTGCCCT
 CACACACAACGACAACCCTTCAATTATGAGAAGACACAACTTAAAGGTCCACAGTTCGAGGCCCA
 CACTGGTGTGAATATTGTGCCAATTTATGTGGGGCTCATCGCCAAGGGTCCGGTGCTCAGACTGTG
 GATTGAACGTACACAAACAGTGTCCAAGCACGTTCCCAATGACTGCCAACCTGATCTCAAGAGGATCAA
 GAAAGTGTACTGTTGTGACCTCACAACTTGTGAAGGCTCACAACTCAGAGACCCATGGTGGTAGAC
 ATATGCATTCCGGAAATTGAAGCAAGAGGATAAAATCGGAAGGCCTTTACAGAGTCTCTGGGTTCACTG
 AACACATTGAAGATGTCAAAATGGCATTGACAGAGATGGTGAAGGCGCATATATCTGCCAATGTCTA
 TCCAGACATAAACATCATCACTGGAGCCCTTAACTGTATTTACAGAGACTTACCCATCCCTGTATCACA
 TATGATACCTATCCAAATTTATAGATGCAGCAAAAATCTCCAATGCAGATGAGAGGCTGGAAGCCGTCC
 ATGAAGTGTGATGCTGCTGCTCCTGCCACTATGAAACCCTCCGGTACCTAATGATCCACCTCAAAAA
 GGTTACTATGAATGAAAAAGACAATTTTCATGAATGCAGAAAAATCTGGGGATCGTGTGGGGCCACTCTG
 ATGAGGCCCTGAGGACAGCACCTGACCACCCTGCATGATATGCGGTACCAAAAGCTGATTGTGCAGA
 TTTAATAGAAAACGAAGACGTTTTATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238312 representing NM_001293072
 Red=Cloning site Green=Tags(s)

MDAEEYQPPIWKSYLYQLQQEAPRPKRIICPREVENRPKYYGREFHGIIISREQADELLGGVEGAYILRES
 QRQPGCYTLALRFGNQTLNYRLFHDGKHFVGEKRFESIHDLVTDGLITLYIETKAAEYISKMTTNPYEH
 IGYATLLREKVSRRLSRSKNEPRKTNVTHEEHTAVEKISSLVRRALTHNDNHFNYEKTHNFKVHTFRGP
 HWCEYCANFMWGLIAQGVRCSDCGLNVHKQCSKHVPNDQCQDLKRIKKVYCCDLTTLVKAHNTQRPVV
 ICIREIEARGLKSEGLYRVSGFTEHIEDVKMAFDRDGEKADISANVYPDINIITGALKLYFRDLPIPVI
 YDTYSKFIDAAKISNADERLEAVHEVLMMLPPAHYETLRYLMIHLKVTMNEKDNFMNAENLGIVFGPTL
 MRPPEDSTLTTLHDMRYQKLIVQILIENEDVLF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

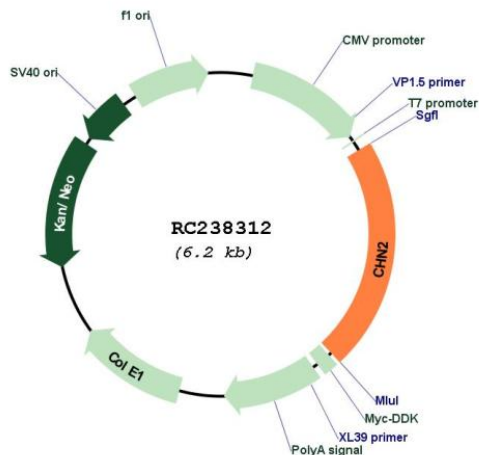
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001293072

ORF Size: 1359 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_001293072.1](#), [NP_001280001.1](#)

RefSeq Size: 3218 bp

RefSeq ORF: 1362 bp

Locus ID: 1124

Cytogenetics: 7p14.3

MW: 53.1 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]