

Product datasheet for **RG238484**

Chimaerin 2 (CHN2) (NM_001293070) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chimaerin 2 (CHN2) (NM_001293070) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chimaerin 2
Synonyms:	ARHGAP3; BCH; CHN2-3; RHOGAP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238484 representing NM_001293070. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCAGCGTCCAGCAACTCCAGCCTGTCCGGCTCGTCGGTGTCCCTCCGTCTATTCTGAACCCAGAAGC
CCGAGAGAGCTTCCAAAATATGCTGAAGAATACCAGCCTCCTATATGAAATCATACTTATATCAGTTA
CAGCAAGAGGCACCTCGTCCCAAGAGAATCATTGTCTCGGGAGGTGAAAACAGACCAAAATATTAT
GGAAGAGAGTTTCATGGGATCATCTCTCGGGAGCAGGCCGATGAGCTTCTGGAGCGTGGAGGGTGCC
TACATCCTTAGAGAAAAGCCAGCGCAACCAGGATGCTACACGCTGGCTCTCAGGTTTGAAAACAGACC
TTAAACTACAGGCTCTCCACGACGGGAAACACTTTGTGGGTGAGAAGAGGTTTGAGTCGATTCATGAT
CTGGTGACAGATGGCTTGATAACTGTACATAGAAAACAAAAGCTGCCGAGTACATTTCAAAAATGACA
ACTAACCCCATCTATGAACACATTGGATATGCCACCCTACTCAGAGAAAAAGTATCCAGAAGGCTGAGC
AGGTCTAAAAATGAACCAAGAAAAACAAACGTCACACATGAAGAACACACAGCGGTGAAAAGATCTCC
TCCCTGGTTCGAAGGGCTGCCCTCACACACAACGACAACCACTTCAATTATGAGAAGACACAACTTT
AAGGTCCACACGTTCCGAGGCCACACTGGTGTGAATATTGTGCCAATTCATGTGGGGCTCATCGCC
CAAGGGGTCCGGTGTCTCAGACTGTGGATTGAACGTACACAAACAGTGTCCAAGCACGTTCCCAATGAC
TGCCAACCTGATCTCAAGAGGATCAAGAAAGTACTGTTGTGACCTCACAAACACTTGTGAAGGCTCAC
AACACTCAGAGACCCATGGTGGTAGACATATGCATTCGGGAAATTAAGCAAGAGGATTAATAATCGGAA
GGCCTTTACAGAGTCTCTGGTTCACTGAACACATTGAAGATGTCAAAATGGCATTGACAGAGATGGT
GAAAAGGCCGATATATCTGCCAATGTCTATCCAGACATAAACATCATCACTGGAGCCCTTAACTGTAT
TTCAGAGACTTACCCATCCCTGTGCATCACATATGATACCTATTCCAAATTTATAGATGCAGCAAAAATC
TCCAATGCAGATGAGAGGCTGGAAGCCGTCATGAAGTGTGATGCTGCTGCCTCCTGCCCACTATGAA
ACCCTCCGGTACCTAATGATCCACCTCAAAAAGGTTACTATGAATGAAAAAGACAATTTTCATGAATGCA
GAAAATCTGGGGATCGTGTGGGCCACTCTGATGAGGCCCCCTGAGGACAGCACCTGACCACCCTG
CATGATATGCGGTACAAAAGCTGATTGTGCAGATTTTAAATAGAAAACGAAGACGTTTTTATTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG238484
 Blue=ORF Red=Cloning site Green=Tag(s)

MAASSNSSLGGSSVSSVYSEPRSPRELPKYAEYQPPIWKSPLYQLQEQEAPRPKRIICPREVENRPKY
 GREFHGIISREQADELLGGVEGAYILRESQRQPGCYTLALRFGNQTLNYRLFHDGKHFVGEKRFESIHD
 LVTDLITLYIETKAAEYISKMTTNPITYEHIGYATLLREKVSRRLSRSKNEPRKTNVTHEEHTAVEKIS
 SLVRRALTHNDNHFNYEKTHNFVKVHTFRGPHWCEYCANFMWGLIAQGVRCSDCGLNVHKQCSKHVPND
 CQPDCLKRIKKVYCDLTLVKAHNTQRPVVDICIREIEARGLKSEGLYRVSGFTEHIEDVKMAFDRDG
 EKADISANVYPDINIITGALKLYFRDLPIPVTYDYSKFIIDAAKISNADERLEAVHEVLMMLPPAHYE
 TLRYLMIHLKVTMNEKDNFMNAENLGI VFGPTLMRPPEDSTLTLHDMRYQKLI VQIL IENEDVLF
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPGYPENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001293070

ORF Size: 1443 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.

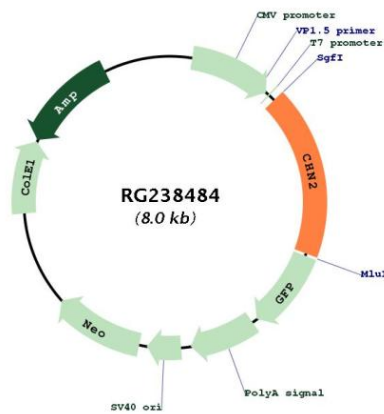
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM_001293070.1](#), [NP_001279999.1](#)

RefSeq Size: 3500 bp
 RefSeq ORF: 1446 bp
 Locus ID: 1124
 UniProt ID: [P52757](#)
 Cytogenetics: 7p14.3
 MW: 56 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]

Product images:



Circular map for RG238484