

## Product datasheet for RC215678

### Chimaerin 2 (CHN2) (NM\_001039936) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chimaerin 2 (CHN2) (NM_001039936) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chimaerin 2
Synonyms:	ARHGAP3; BCH; CHN2-3; RHOGAP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215678 representing NM_001039936 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGTTCTCTGAAGAAGTGTGGCTGGAAAATGAGAAAAAGTGTGCTGTGGTTCGGAAGTCTAAGCAGGGCA  
GGAAACGCCAAGAAGTGTGGCCGTAGCCTTCGGGGTGAAGGTGGGTGTCAAAGGCGGCTTCTTTGGCC  
CCCTCTCAAAGTCTTTGCCTGTTACAGATCTCCTCCCTGGTTCGAAGGGCTGCCCTCACACACAACGAC  
AACCACCTCAATTATGAGAAGACACACAACCTTTAAGGTCCACACGTTCCGAGGCCACACTGGTGTGAAT  
ATTGTGCCAATTCATGTGGGGCTCATGCCCAAGGGTCCGGTCTCAGACTGTGGATTGAACGTACA  
CAAACAGTGTCCAAGCAGTTCCTCAATGACTGCCAACCTGATCTCAAGAGGATCAAGAAAGTGTACTGT  
TGTGACCTCACAACACTTGTGAAGGCTCACAACACTCAGAGACCCATGGTGGTAGACATATGCATTCGGG  
AAATTGAAGCAAGAGGATTAATAATCGGAAGGCCTTTACAGAGTCTCTGGGTTCACTGAACACATTGAAGA  
TGTCAAAATGGCATTGACAGAGATGGTGAAGGCCGATATATCGCAATGTCTATCCAGACATAAAC  
ATCATCACTGGAGCCCTTAACTGTATTTACAGAGACTTACCCATCCCTGTATCATACATATGATACCTATT  
CCAAATTTATAGATGCAGCAAAAATCTCCAATGCAGATGAGAGGCTGGAAGCCGTCATGAAGTGTCTGAT  
GCTGCTGCCTCCTGCCACTATGAAACCCTCCGGTACCTAATGATCCACCTCAAAAAGGTTACTATGAAT  
GAAAAAGACAATTCATGAATGCAGAAAATCTGGGGATCGTGTGGGCCCACTGTGATGAGGCCCCCTG  
AGGACAGCACCCCTGACCACCCTGCATGATATGCCGTACCAAAAGCTGATTGTGCAGATTTAATAGAAAA  
CGAAGACGTTTTATTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC215678 representing NM\_001039936  
Red=Cloning site Green=Tags(s)

MFSEELWLENEKKCAVVRKSKQGRKRQELLAVAFGVKVGKGGFLWPPLKLFACSQISSLVRAALTHND  
 NHFNYEKTHNFKVHTFRGPHWCEYCANFMWGLIAQGVRCSDCLNVHKQCSKHVPNDCQDLKRIKKVYC  
 CDLTTLVKAHNTQRPMVVDICIREIEARGLKSEGLYRVSGFTEHIEDVKMAFDRDGEKADISANVYPDIN  
 IITGALKLYFRDLPIPVITYDYTSKFIIDAAKISNADERLEAVHEVLMMLPPAHYETLRYLMIHLKKVMTM  
 EKDNFMNAENLGI VFGPTLMRPPEDSTLTTLHDMRYQKLIVQILINEDVLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8052\\_g09.zip](https://cdn.origene.com/chromatograms/mk8052_g09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001039936

**ORF Size:** 996 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\\_001039936.2](#), [NP\\_001035025.1](#)

**RefSeq Size:** 2843 bp

**RefSeq ORF:** 999 bp

**Locus ID:** 1124

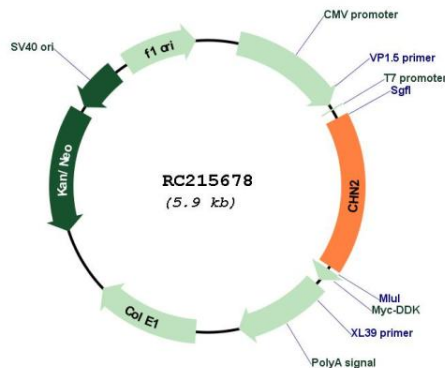
**UniProt ID:** [P52757](#)

**Cytogenetics:** 7p14.3

**MW:** 38 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 RC215678