

## Product datasheet for **RG237001**

### Chimaerin 2 (CHN2) (NM\_001293077) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chimaerin 2 (CHN2) (NM_001293077) 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:	>RG237001 representing NM_001293077. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTCTCTGAAGAACTGTGGCTGGAAAATGAGAAAAAGTGTGCTGTGGTTCGGAAGTCTAAGCAGGGC
AGGAAACGCCAAGAACTGCTGGCCGTAGCCTTCGGGGTGAAGGTGGGTGTCAAAGCGGCTTTCTTTGG
CCCCCTCTCAAACCTTTGCCTGTTACAGATCTCCTCCCTGGTTCGAAGGGCTGCCCTCACACACAAC
GACAACCACTTCAATTATGAGAAGACACACAACTTAAGGTCCACACGTTCCGAGGCCACACTGGTGT
GAATATTGTGCCAATTTTCATGTGGGGGCTCATGCCCAAGGGTCCGGTGTCTCAGACTGTGGATTGAAC
GTACACAACAGTGTCCAAGCACGTTCCAATGACTGCCAACCTGATCTCAAGAGGATCAAGAAAGTG
TACTGTTGTGACCTCACAACTTGTGAAGGCTCACAACTCAGAGACCCATGGTGGTAGACATATGC
ATTCGGGAAATTAAGCAAGAGAAATCTCCAATGCAGATGAGAGGCTGGAAGCCGTCATGAAGTGTG
ATGCTGCTGCCTCCTGCCACTATGAAACCCTCCGGTACCTAATGATCCACCTCAAAAAGTTACTATG
AATGAAAAGACAATTTTCATGAATGCAGAAAATCTGGGGATCGTGTGGGCCCACTCTGATGAGGCC
CCTGAGGACAGCACCTGACCACCCTGCATGATATGCGGTACCAAAGCTGATTGTGCAGATTTAATA
GAAAACGAAGACGTTTTATTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237001  
 Blue=ORF Red=Cloning site Green=Tag(s)

MFSEELWLENEKKCAVVRKSKQGRKRQELLAVAFGVKVGKGGFLWPPLKLFACSQISSLVRAALTHN  
 DNHFNYEKTHNFKVHTFRGPHWCEYCANFMWGLIAQGVRCSDCGLNVHKQCSKHVPNDQCQDLKRIKKV  
 YCCDLTTLVKAHNTQRPMVVDICIREIEAREISNADERLEAVHEVLMMLPPAHYETLRYLMIHLKKVTM  
 NEKDNFMNAENLGIVFGPTLMRPPEDSTLTTLHDMRYQKLIQVIL IENEDVLF  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001293077

**ORF Size:** 780 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\\_001293077.1](#), [NP\\_001280006.1](#)

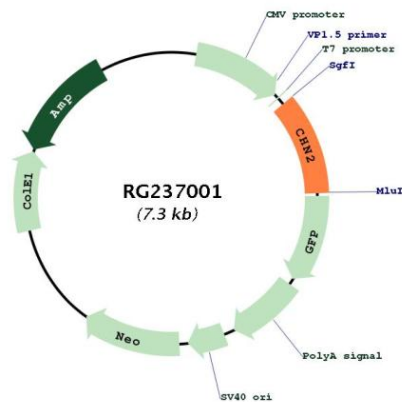
**RefSeq Size:** 2799 bp

**RefSeq ORF:** 783 bp

**Locus ID:** 1124  
**UniProt ID:** [P52757](#)  
**Cytogenetics:** 7p14.3  
**MW:** 30.6 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 RG237001