

Product datasheet for **RG236489**

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: TurboGFP
Symbol: CHN2
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: >RG236489 representing NM_001293079.
Blue=ORF **Red**=Cloning site **Green**=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTTCTCTGAAGAACTGTGGCTGGAAAATGAGAAAAAGTGTGCTGTGGTTCGGAAGTCTAAGCAGGGC
AGGAAACGCCAAGAACTGCTGGCCGTAGCCTTCGGGGTGAAGGTGGGTGTCAAAGCGCGCTTTCTTTGG
CCCCCTCAAACCTTTGCCTGTTACAGATCTCCTCCCTGGTTCGAAGGGCTGCCCTCACACACAAC
GACAACCACTTCAATTATGAGAAGACACAACCTTAAGGTCCACACGTTCCGAGGCCACACTGGTGT
GAATATTGTGCCAATTTATGTGGGGCTCATCGCCAAGGGTCCGGTGCTCAGACTGTGGATTGAAC
GTACACAACAGTGTCCAAGCACGTTCCAATGACTGCCAACCTGATCTCAAGAGGATCAAGAAAGTG
TACTGTTGTGACCTCACAACTTTGTAAGGCTCACAACTCAGAGACCATGGTGGTAGACATATGC
ATTCGGGAAATTGAAGCAAGAGGATTAATAATCGGAAGGCCTTACAGAGTCTCTGGGTTACTGAACAC
ATTGAAGATGTCAAAATGGCATTGACAGAGGGTTACTA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236489
Blue=ORF **Red**=Cloning site **Green**=Tag(s)

```
MFSEELWLENEKKCAVVRKSKQGRKRQELLAVAFGVKGVKGGFLWPPLKLFACSQISSLVVRAALTHN
DNHFNYEKTHNFKVHTFRGPHWCEYCANFMWGLIAQGVRCSDCGLNVHKQCSKHPNDQPDLKRICKV
YCCDLTTLVKAHNTQRPMVVDICIREIEARGLKSEGLYRVSGFTEHIEDVKMAFDRGLL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

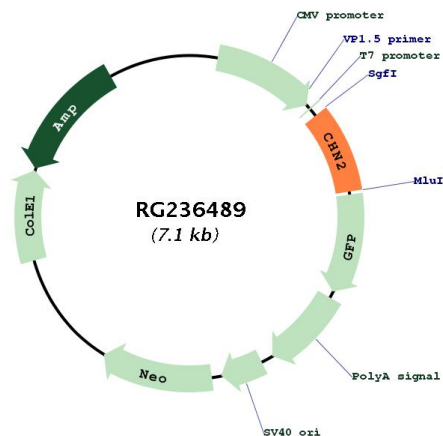
Restriction Sites: SgfI-MluI



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).

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]