

Product datasheet for **RC238820**

Chimaerin 2 (CHN2) (NM_001293069) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chimaerin 2 (CHN2) (NM_001293069) 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



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ORF Nucleotide Sequence:

>RC238820 representing NM_001293069
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCCAGACCCACAGGGCAAAAAGTGGTCGTGTCGTCCCAACCTCCTGGTCCCAGAAACCTGGCCGC
 ATCAAGTCAGCGCTTCCCATGCTGGAAGAAGCAAGCAGCCCCAGGGTGAATCTTAAAAATTAATGAAGA
 GCATCGGCGGGTGCATTTCAGGACTTACTTGCAAGCCAGGATTTACATTTGAAAGCGAGTGGTGT
 GATTCCCCTGTTTAAAAAGGCAACACACGTTTCGCTGATGGTCTACATTCAGCTGCACTAGCGATGCTG
 AAGAATACCAGCCTCCTATATGGAAATCATACTTATATCAGTTACAGCAAGAGGCACCTCGTCCCAAGAG
 AATCATTTGTCTCGGGAGGTGGAAAACAGACAAAATATTATGGAAGAGAGTTTCATGGGATCATCTCT
 CGGGAGCAGGCGGATGAGCTTCTGGAGGCGTGGAGGGTGCCTACATCCTTAGAGAAAGCCAGCGGCAAC
 CAGGATGTACACGCTGGCTCTCAGGTTTGGAAACCAGACCTTAACTACAGGCTCTCCACGACGGAA
 ACATTTGTGGGTGAGAAGAGGTTTGGTGCATGATCTGGTGACAGATGGCTTGATAACACTGTAC
 ATAGAAAACAAAAGCTGCCGAGTACATTTCAAAAATGACAACCTAACCCATCTATGAACACATTGGATATG
 CCACCCTACTCAGAGAAAAGTATCCAGAAGGCTGAGCAGGTCTAAAAATGAACCAAGAAAAACAACGT
 CACACATGAAGAACACACAGCGGTGAAAAGATCTCCTCCCTGGTTTGAAGGGCTGCCCTCACACACAAC
 GACAACCACTTCAATTATGAGAAGACACACAACCTTAAAGTCCACACGTTCCGAGGCCACACTGGTGTG
 AATATTGTGCCAATTTTATGTGGGGCTCATCGCCAAGGGTCCGGTGTCTCAGACTGTGGATTGAACGT
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 TGTGTGACCTCACAACACTTGTGAAGGCTCACAACACTCAGAGACCCATGGTGGTAGACATATGCATTC
 GGGAAATTGAAGCAAGAGGATTTAAAATCGGAAGGCTTTACAGAGTCTCTGGGTTCACTGAACACATGA
 AGATGTCAAATGGCATTGACAGAGATGGTGAAGGCGGATATCTGCAATGTCTATCCAGACATA
 AACATCATCACTGGAGCCCTTAACTGTATTTTACAGACTTACCCATCCCTGTCATCACATATGATACCT
 ATTCAAAATTTATAGATGCAGCAAAAATCTCCAATGCAGATGAGAGGCTGGAAGCCGTCATGAAGTGT
 GATGCTGCTGCCTCCTGCCACTATGAAACCCTCCGGTACCTAATGATCCACCTCAAAAAGGTTACTATG
 AATGAAAAGACAATTTTATGAATGCAGAAAATCTGGGGATCGTGTGGGCCACTCTGATGAGGCCCC
 CTGAGGACAGCACCTGACCACCCTGCATGATATGCGGTACCAAAAAGCTGATTGTGCAGATTTTAAATAGA
 AAACGAAGACGTTTTATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238820 representing NM_001293069
 Red=Cloning site Green=Tags(s)

MTQTHRAKSASSCPNLLVPETWPHQVSASHAGRSKQPQGGILKINEEHRRGAIQDLLASPGFTFGKRVVF
 DSHCLKRQHTFADGLHSSCTSDAEEYQPPWKSQSYLYLQEQEAPRPKRIICPREVENRPKYGREFHGIIS
 REQADELLGGVEGAYILRESQRQPGCYTLALRFGNQTLNRYLFHDGKHFVGEKRFESIHDLVTDGLITLY
 IETKAAEYISKMTTNPYEHIGYATLLREKVSRRLSRSKNEPRKTNVTHEEHTAVEKISSLVRRRAALTHN
 DNHFNYEKTHNFKVHTFRGPHWCEYCANFMWGLIAQGVRCSDCLNVHKQCSKHVPNDCCQPDLKRIKKVY
 CCDLTTLVKAHNTQRPMVVDICIREIEARGLKSEGLYRVSGFTEHIEDVKMAFDRDGEKADISANVYPTI
 NIITGALKLYFRDLPIPVITYDYTSKFIDAAKISNADERLEAVHEVLMLLPPAHYETLRYLMIHLKKVTM
 NEKDNFMNAENLGIIVFGPTLMRPPEDSTLTLHDMRYQKLIQILINEDVLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

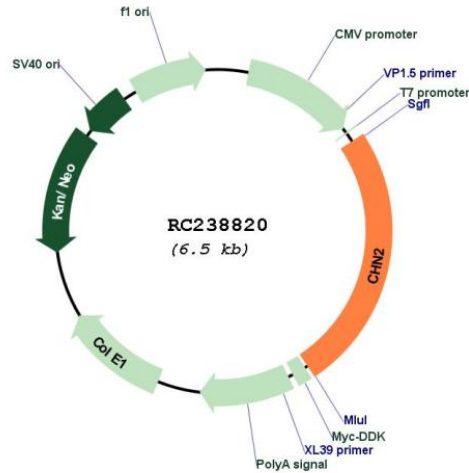
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001293069
ORF Size:	1629 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:	<ol style="list-style-type: none">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_001293069.1 , NP_001279998.1
RefSeq Size:	3286 bp
RefSeq ORF:	1632 bp
Locus ID:	1124
UniProt ID:	P52757
Cytogenetics:	7p14.3
MW:	62.9 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]