

Product datasheet for SC125452

Chimaerin 2 (CHN2) (NM_004067) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chimaerin 2 (CHN2) (NM_004067) Human Untagged Clone
Tag:	Tag Free
Symbol:	Chimaerin 2
Synonyms:	ARHGAP3; BCH; CHN2-3; RHOGAP3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_004067 edited
 ATGGCAGCGTCCAGCAACTCCAGCCTGTCCGGCTCGTCCGTGCTCCCTCCGATGCTGAAGAA
 TACCAGCTCCTATATGGAAATCATACTTATATCAGTTACAGCAAGAGGCACCTCGTCCC
 AAGAGAATCATTGTCTCGGGAGGTGGAAAACAGACCAAATATTATGGAAGAGAGTTT
 CATGGGATCATCTCTCGGGAGCAGGCGGATGAGCTTCTTGGAGGCGTGGAGGGTGCTAC
 ATCCTTAGAGAAAAGCCAGCGGCAACCAGGATGCTACACGCTGGCTCTCAGGTTTGGAAAC
 CAGACCTAAACTACAGGCTCTCCACGACGGGAAACACTTTGTGGTGAGAAGAGGTTT
 GAGTCGATTCATGATCTGGTGACAGATGGCTTGATAAACTGTACATAGAAAACAAAAGCT
 GCCGAGTACATTTCAAAAATGACAACTAACCCCATCTATGAACACATTGGATATGCCACC
 CTACTCAGAGAAAAAGTATCCAGAAGGCTGAGCAGGTCTAAAAATGAACCAAGAAAAACA
 AACGTCACACATGAAGAACACACAGCGGTGAAAAGATCTCCTCCCTGGTTCGAAGGGCT
 GCCCTCACACACAACGACAACCCTTCAATTATGAGAAGACACAACTTTAAGGTCCAC
 ACGTTCGAGGCCACACTGGTGTGAATATTGTGCCAATTTTCATGTGGGGCTCATCGCC
 CAAGGGTCCGGTCTCAGACTGTGGATTGAACGTACACAAAACAGTGTTCGAAGCACGTT
 CCCAATGACTGCCAACCTGATCTCAAGAGGATCAAGAAAGTACTGTTGTGACCTCACA
 ACATTTGTGAAGGCTCACAACACTCAGAGCCCATGGTGGTAGACATATGCATTCGGGAA
 ATTGAAGCAAGAGGATTTAAATCGGAAGGCCTTACAGAGTCTCTGGGTTCACTGAACAC
 ATTGAAGATGTCAAAATGGCATTGACAGAGATGGTAAAAGGCCGATATATCTGCCAAT
 GTCTATCCAGACATAAACATCATCACTGGAGCCCTTAACTGTATTTAGAGACTTACC
 ATCCCTGTCATCACATATGATACCTATTCCAAATTTATAGATGCAGCAAAAATCTCCAAT
 GCAGATGAGAGGCTGGAAGCCGTCATGAAGTGCTGATGCTGCTGCCTCCTGCCACTAT
 GAAACCCTCCGGTACCTAATGATCCACCTCAAAAAGGTTACTATGAATGAAAAGACAAT
 TTCATGAATGCAGAAAATCTGGGGATCGTGTGGGCCCACTCTGATGAGGCCCTGAG
 GACAGCACCTGACCACCTGCATGATATGCGGTACCAAAAGCTGATTGTGCAGATTTTA
 ATAGAAAACGAAGACGTTTTATTCTAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004067 unedited NGGTGTCAAATTTGTATACGACTCACTATAGGCGGCCGCGATTCCGGCAGGAGGGGCGAG GGCAGCGCGCGCGCGCTCCGACCCGGGGCTGAGCGAGCAGCGACGCGAGGGGCGCGCGGA GATGGCAGCGTCCAGCAACTCCAGCCTGTCCGGCTCGTCGGTGTCTCCGATGCTGAAGA ATACCAGCCTCTATATGGAAATCATACTTATATCAGTTACAGCAAGAGGCACCTCGTCC CAAGAGAATCATTGTCTCGGGAGGTGGAAAACAGACAAAATATTATGGAAGAGAGTT TCATGGGATCATCTCTCGGGAGCAGGCGGATGAGCTTCTTGAGGCGTGGAGGGTGCCTA CATCCTTAGAGAAAGCCAGCGGCAACCAGGATGCTACACGCTGGCTCTCAGGTTTGAAA CCAGACCTTAAACTACAGGCTTTCACGACGGGAAACACTTTGTGGGTGAGAAGAGTT TGAGTCGATTCATGATCTGGTGACAGATGGCTTGATAACACTGTACATAGAAAACAAAAGC TGCCGAGTACATTTCAAAAATGACAACAAACCCCATCTATGAACACATTGGATATGCCAC CCTACTCAGAGAAAAAGTATCCAGAAGGCTGAGCAGGTCTAAAAATGAACCAAGAAAAAC AAACGTACACATGAAGAACACACAGCGGTGGAAAAGATCTCCTCCCTGGTTCGAAGGGC TGCCCTCACACACAACGACNACCACTTCATTATGAGAAGACACAACCTTAAGTCCACA CGTTCCGAGGCCACACTGGTGTGAATATTGTGCCAATTTTCATGTGGGGGCTCATCGCCA GGGGTNCGTGTCTCAAACGTGATTGACGTACACAACAGTGTCCAAGCACGTCCCATGAC TGCCACCTGATCTCAGAGATCAGNAAGTGTCTGG
Restriction Sites:	NotI-NotI
ACCN:	NM_004067
Insert Size:	3160 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_004067.1 , NP_004058.1
RefSeq Size:	2213 bp
RefSeq ORF:	1407 bp
Locus ID:	1124
UniProt ID:	P52757
Cytogenetics:	7p14.3
Domains:	RhoGAP, SH2, DAG_PE-bind

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]

Transcript Variant: This variant (2) differs in the 5' UTR and contains multiple additional 5' coding exons, compared to variant 1. It represents use of an alternate promoter and initiates translation from an alternate start codon. The encoded isoform (2) has a distinct N-terminus and is longer than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.