

Product datasheet for **RG238820**

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:	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)



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ORF Nucleotide Sequence:

>RG238820 representing NM_001293069.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGACCCAGACCCACAGGGCAAAAAGTGCCTCGTGTCCCAACCTCCTGGTCCCAGAAACCTGGCCG
CATCAAGTCAGCGCTTCCCATGCTGGAAGAAGCAAGCAGCCCCAGGGTGAATCTTAAAAATTAATGAA
GAGCATCGGCGGGTGCCATTCAGGACTTACTTGCAAGCCAGGATTTACATTTGAAAAGCGAGTGGTG
TTTGATTCCCACTGTTTAAAAAGCAACACACGTTTCGCTGATGGTCTACATTCCAGCTGCACTAGCGAT
GCTGAAGAATACCAAGCCTCTATATGAAATCATACTTATATCAGTTACAGCAAGAGGCACCTCGTCCC
AAGAGAATCATTGTCTCGGGAGTGGAAAACAGACCAAAATATTATGGAAGAGAGTTTCATGGGATC
ATCTCTCGGGAGCAGGCGGATGAGCTTCTTGGAGGCGTGGAGGGTGCCTACATCCTTAGAGAAAGCCAG
CGGCAACCAGGATGCTACACGCTGGCTCTCAGGTTTGGAAACCAGACCTAAACTACAGGCTCTCCAC
GACGGAAACACTTTGTGGGTGAGAAGAGGTTTGAAGTCGATTTCATGATCTGGTGACAGATGGCTTGATA
ACACTGTACATAGAAACAAAAGTGCAGGATACATTTCAAAAATGACAACTAACCCATCTATGAACAC
ATTGGATATGCCACCCTACTCAGAGAAAAAGTATCCAGAAGGCTGAGCAGGTCTAAAAATGAACCAAGA
AAAACAAACGTCACACATGAAGAACACACAGCGGTGAAAAGATCTCTCCCTGGTTCGAAGGGCTGCC
CTCACACAACGACAACCACTTCAATTATGAGAAGACACACAACCTTAAAGTCCACACGTTCCGAGGC
CCACACTGGTGTGAATATTGTGCCAATTCATGTGGGGCTCATCGCCAAGGGTCCGGTGTCTCAGAC
TGTGGATTGAACGTACACAAACAGTGTTCACAGCAGTTCCTCAATGACTGCCAACCTGATCTCAAGAGG
ATCAAGAAAGTGTACTGTTGTGACCTCACAACTTGTGAAGGCTCACAACTCAGAGACCCATGGTG
GTAGACATATGCATTCGGGAAATTAAGCAAGAGGATTAATAATCGGAAGGCCTTTACAGAGTCTCTGGG
TTCATGAACACATTGAAGATGTCAAAAATGGCATTGACAGAGATGGTGAAGGCGGATATATGCC
AATGCTATCCAGACATAAACATCATCACTGGAGCCCTTAAACTGTATTTACAGAGACTTACCCATCCCT
GTCATCACATATGATACCTATTCCAAATTTATAGATGCAGCAAAAATCTCAATGAGATGAGAGGCTG
GAAGCCGTCATGAAGTGTGATGCTGCTGCTCCTGCCACTATGAAACCCTCCGGTACCTAATGATC
CACCTCAAAAAGTTACTATGAATGAAAAGACAATTTTCATGAATGCAGAAAATCTGGGGATCGTGT
GGGCCACTCTGATGAGGCCCTGAGGACAGCACCTGACCACCCTGCATGATATGCGGTACCAAAAAG
CTGATTGTGCAGATTTTAAATAGAAAACGAAGACGTTTTATT
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
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Protein Sequence:

>Peptide sequence encoded by RG238820
 Blue=ORF Red=Cloning site Green=Tag(s)

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MTQTHRAKSASSCPNLLVPETWPHQVSASHAGRSKQPQGGILKINEEHRRGAIQDLLASPGFTFGKRVV
FDSHCLKRQHTFADGLHSSCTSDAEEYQPPPIWKSYLELQEQEAPRPKRIICPREVENRPKYGREFHGI
ISREQADELLGGVEGAYILRESQRQPGCYTLALRFGNQLNRYLFHDGKHFVGEKRFESIHDLVTDGLI
TLYIETKAAEYISKMTTNPYEHIGYATLLREKVSRRLSRSKNEPRKTNVTHEHTAVEKISSLVRRAA
LTHNDNHFNYEKTHNFKVHTFRGPHWCEYCANFMWGLIAQGVRCSDCGLNVHKQCSKHVPNDQPD LKR
IKKVYCCDLTTLVKAHNTQRPMVVDICIREIEARGLKSEGLYRVSGFTEHIEDVKMAFDRDGEKADISA
NVYPDINIITGALKLYFRDLPIPVITYDYTSKFIDAAKISNADERLEAVHEVLMMLPPAHYETLRYLMI
HLKKVTMNEKDNFMNAENLGVFGPTLMRPPEDSTLTTLHDMRYQKLIVQILINEDVLF
TRTRPLEMESDESGLPAMEIECRITGLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites:

Sgfl-MluI

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).
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]