OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG215678

Chimaerin 2 (CHN2) (NM_001039936) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chimaerin 2 (CHN2) (NM_001039936) 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:

>RG215678 representing NM_001039936
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCTCTGAAGAACTGTGGCTGGAAAATGAGAAAAAGTGTGCTGTGGTTCGGAAGTCTAAGCAGGGCA
GGAAACGCCAAGAACTGCTGGCCGTAGCCTTCGGGGTGAAGGTGGGTGTCAAAGGCGGCTTTCTTTGGCC
CCCTCTCAAACTCTTTGCCTGTTCACAGATCTCCTCCCTGGTTCGAAGGGCTGCCCTCACACACAACGAC
AACCACTTCAATTATGAGAAGACACACAACTTTAAGGTCCACACGTTCCGAGGCCCACACTGGTGTGAAT
ATTGTGCCAATTTCATGTGGGGGCTCATCGCCCAAGGGGTCCGGTGCTCAGACTGTGGATTGAACGTACA
CAAACAGTGTTCCAAGCACGTTCCCAATGACTGCCAACCTGATCTCAAGAGGATCAAGAAAGTGTACTGT
TGTGACCTCACAACACTTGTGAAGGCTCACAACACTCAGAGACCCATGGTGGTAGACATATGCATTCGGG
AAATTGAAGCAAGAGGATTAAAATCGGAAGGCCTTTACAGAGTCTCTGGGTTCACTGAACACATTGAAGA
TGTCAAAATGGCATTTGACAGAGATGGTGAAAAGGCCGATATATCTGCCAATGTCTATCCAGACATAAAC
ATCATCACTGGAGCCCTTAAACTGTATTTCAGAGACTTACCCATCCCTGTCATCACATATGATACCTATT
CCAAATTTATAGATGCAGCAAAAATCTCCAATGCAGATGAGAGGCTGGAAGCCGTCCATGAAGTGCTGAT
GCTGCTGCCTCCTGCCCACTATGAAACCCTCCGGTACCTAATGATCCACCTCAAAAAGGTTACTATGAAT
GAAAAAGACAATTTCATGAATGCAGAAAATCTGGGGATCGTGTTTGGGCCCACTCTGATGAGGCCCCCTG
AGGACAGCACCCTGACCACCCTGCATGATATGCGGTACCAAAAGCTGATTGTGCAGATTTTAATAGAAAA
CGAAGACGTTTTATTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

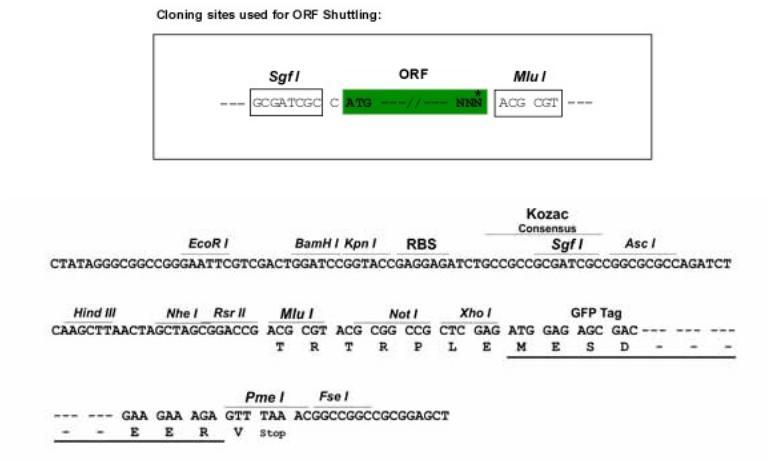
>RG215678 representing NM_001039936
Red=Cloning site Green=Tags(s)

MFSEELWLENEKKCAVVRKSKQGRKRQELLAVAFGVKVGVKGGFLWPPLKLFACSQISSLVRRAALTHND
NHFNYEKTHNFKVHTFRGPHWCEYCANFMWGLIAQGVRCSDCGLNVHKQCSKHVPNDCQPDLKRIKKVYC
CDLTTLVKAHNTQRPMVVDICIREIEARGLKSEGLYRVSGFTEHIEDVKMAFDRDGEKADISANVYPDIN
IITGALKLYFRDLPIPVITYDTYSKFIDAAKISNADERLEAVHEVLMLLPPAHYETLRYLMIHLKKVTMN
EKDNFMNAENLGIVFGPTLMRPPEDSTLTTLHDMRYQKLIVQILIENEDVLF

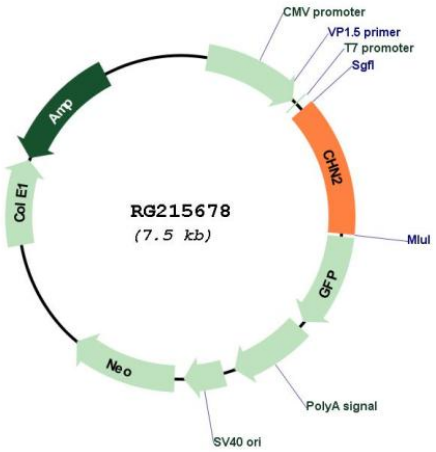
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001039936

ORF Size: 996 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:	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_001039936.2, NP_001035025.1
RefSeq Size:	2843 bp
RefSeq ORF:	999 bp
Locus ID:	1124
UniProt ID:	P52757
Cytogenetics:	7p14.3
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]