

Product datasheet for **RG222163**

CHN 1 (CHN1) (NM_001822) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHN 1 (CHN1) (NM_001822) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHN 1
Synonyms:	ARHGAP2; CHN; DURS2; NC; RHOGAP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG222163 representing NM_001822
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCTGACCCTGTTTGATACAGATGAATATAGACCTCCTGTTTGAAATCTTACTTATATCAGCTAC
 AACAGGAAGCCCCTCATCCTCGAAGAATTACCTGTACTTGCGAGGTGAAAACAGACCAAAGTATTATGG
 AAGAGAGTTTCATGGCATGATCTCCAGAGAAGCAGCCGACCAGCTCTTGATTGTGGCTGAGGGGAGCTAC
 CTCATCCGGGAGAGCCAGCGGCAGCCAGGGACCTACACTTTGGCTTTAAGATTTGGAAGTCAAACCAGAA
 ACTTCAGGCTCTACTACGATGGCAAGCACTTTGTTGGGGAGAAACGCTTTGAGTCCATCCACGATCTGGT
 GACTGATGGCTTGATTACTCTCTATATTGAAACCAAGGCAGCAGAATACATTGCCAAGATGACGATAAAC
 CCAATTTATGAGCACGTAGGATACACAACCTTAAACAGAGAGCCAGCATACAAAAAACATATGCCAGTCC
 TGAAGAGACACATGATGAGAGAGATTCTACAGGCCAGGATGGGGTGTGAGAGAAAAGTTGACATCACT
 TGTTAGAAGAGCAACTCTGAAAGAAAACGAGCAAATTCAAAATATGAAAAGATTCACAATTTCAAGGTG
 CATACTTCAGAGGGCCACTGGTGTGAATACTGTGCCAATTTATGTGGGGTCTCATTGCTCAGGGAG
 TGAATGTGCAGATTGTGGTTTGAATGTTCCATAAGCAGTGTCCAAGATGGTCCCAAATGACTGTAGCC
 AGACTTGAAGCATGTCAAAAAGGTGTACAGCTGTGACCTTACGACGCTCGTAAAAGCACATACCACTAAG
 CGGCCAATGGTGGTAGACATGTGCATCAGGGAGATTGAGTCTAGAGGTCTTAATTCTGAAGGACTATACC
 GAGTATCAGGATTTAGTGACCTAATTGAAGATGTCAAGATGGCTTTCCGACAGAGATGGTGAAGGCAGA
 TATTTCTGTGAACATGTATGAAGATCAACATTATCACTGGTGCCTTAACTGTACTTCAGGGATTTG
 CCAATTCCTCATTACATATGATGCCTACCCTAAGTTTATAGAATCTGCCAAAATATGGATCCGGATG
 AGCAATTGGAAACCCCTTCATGAAGCACTGAAACTACTGCCACTGCTCACTGCGAAACCCCTCCGGTACCT
 CATGGCACATCTAAAGAGAGTGACCCTCCACGAAAAGGAGAATCTTATGAATGCAGAGAACCTTGAATC
 GTCTTTGGACCCACCCTTATGAGATCTCCAGAAGTACGACCCATGGCTGCATTGAATGATATACGGTATC
 AGAGACTGGTGGTGGAGCTGCTTATCAAAAACGAAGACATTTTATTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG222163 representing NM_001822
 Red=Cloning site Green=Tags(s)

MALTLFDTDEYRPPVWKSYLEYQLQQEAPHPRITCTCEVENRPKYYGREFHGMISREAADQLLIVAEGSY
 LIRESQRQPGTYTLALRFGSQTRNFRLLYYDGKHFVGEKRFESIHDLVTDGLITLYIETKAAEYIAKMTIN
 PIYEHVGYTTLNREPAYKKHMPVLKETHDERDSTGQDGVSEKRLTSLVRRATLKENEQIPKYEKIHNFKV
 HTFRGPHWCEYCANFMWGLIAQGVKCADCGLNVHKQCSKMPNDCKPDLKHVKKVYSCDLTTLVKAHTTK
 RPMVDMCIREIESRGLNSEGLYRVSGFSDLIEDVKMAFDRDGEKADISVNMVEDINIITGALKLYFRDL
 PIPLITYDAYPKFIESAKIMDPDEQLETLHEALKLLPPAHCETLRYLMAHLKRVTLHEKENLMNAENLGI
 VFGPTLMRSPELDAMAALNDIRYQLRVELLIKNEDILF

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001822

ORF Size: 1377 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001822.7](#)

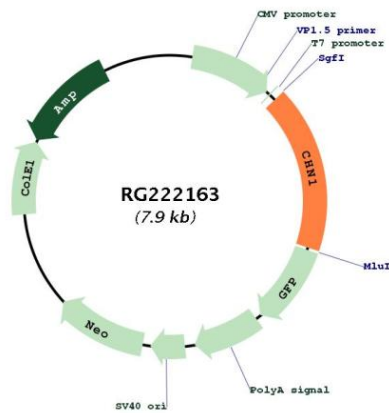
RefSeq Size: 2607 bp

RefSeq ORF: 1380 bp

Locus ID: 1123

UniProt ID: [P15882](#)
Cytogenetics: 2q31.1
Domains: RhoGAP, SH2, DAG_PE-bind
Gene Summary: This gene encodes GTPase-activating protein for ras-related p21-rac and a phorbol ester receptor. It is predominantly expressed in neurons, and plays an important role in neuronal signal-transduction mechanisms. Mutations in this gene are associated with Duane's retraction syndrome 2 (DURS2). Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Apr 2011]

Product images:



Circular map for RG222163