

## Product datasheet for SC119006

### CHN 1 (CHN1) (NM\_001822) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHN 1 (CHN1) (NM_001822) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHN 1
Synonyms:	ARHGAP2; CHN; DURS2; NC; RHOGAP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119006 sequence for NM_001822 edited (data generated by NextGen Sequencing)

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ATGGCCCTGACCCTGTTTGATACAGATGAATATAGACCTCTGTTTGAAATCTTACTTA
TATCAGCTACAACAGGAAGCCCTCATCCTCGAAGAATTACCTGTAAGTGGAGGTGAA
AACAGACCAAAGTATTATGGAAGAGAGTTTCATGGCATGATCTCCAGAGAAGCAGCCGAC
CAGCTCTTGATTGGCTGAGGGGAGCTACCTCATCCGGGAGAGCCAGCGGCAGCCAGGG
ACCTACACTTTGGCTTTAAGATTTGGAAGTCAAACAGAACTTCAGGCTCTACTACGAT
GGCAAGCACTTTGTTGGGGAGAAACGCTTTGAGTCCATCCACGATCTGGTGACTGATGGC
TTGATTACTCTATATTGAAACCAAGGCAGCAGAATACATTGCCAAGATGACGATAAAC
CCAATTTATGAGCACGTAGGATACACAACCTTAAACAGAGAGCCAGCATACAAAAACAT
ATGCCAGTCTGAAAGAGACACATGATGAGAGAGATTCTACAGGCCAGGATGGGGTGCA
GAGAAAAGTTGACATCACTTGTGTAAGAGCAACTCTGAAAGAAAACGAGCAAATCCA
AAATATGAAAAGATTCACAATTTCAAGGTGCATACATTGAGAGGCCACACTGGTGTGAA
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TTGAATGTTTCAAGCAGTGTCCAAAGATGGTCCCAATGACTGTAAGCCAGACTTGAAG
CATGTCAAAAAGGTGTACAGCTGTGACCTACGACGCTCGTGAAGCACATACCACTAAG
CGGCAATGGTGGTAGACATGTGCATCAGGGAGATTGAGTCTAGAGGTCTTAATTCTGAA
GGACTATACCGAGTATCAGGATTTAGTGACCTAATTGAAGATGTCAAGATGGCTTTGAC
AGAGATGGTGAGAAGGCAGATATTTCTGTGAACATGTATGAAGATATCAACATTATCACT
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CCTAAGTTTATAGAATCTGCCAAAATTATGGATCCGGATGAGCAATTGGAACCCCTTCAT
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CTAAAGAGAGTGACCCTCCACGAAAAGGAGAATCTTATGAATGCAGAGAACCTTGGAAATC
GTCTTTGGACCCACCTTATGAGATCTCCAGAAGTACGACGCTGGCTGCATTGAATGAT
ATACGGTATCAGAGACTGGTGGTGGAGCTGCTTATCAAAAACGAAGACATTTATTTTAA

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Clone variation with respect to NM\_001822.5



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_001822 unedited  CGCGCCCCCGGGGGCTGTGCGAGGCTGCTGCTCTCCCCGTGCGCCGCCGCCGCCG  CGCCAGTGCGGCGCCGCTCTCCGCCAGCCACTGCGCCGCGGCCAAGCCTCCTGCCTCGC  AGCGGTCCCCCGGTCCCGGCCTGCAGCCTCCCCGGGCGCCGGCGCCCCAGCACGCCCC  ATCGGGACCCCCACTCTCTCCGAGGTGTGGGTGCGGCGGGCTGATGAGGTGATCCCTAGC  CCGCTGGGAGGAGCGCCTGGACTCGCGGGCGCGGCGAGCGCCTTACAATGCCCTGA  CCCTGTTGATACAGATGAATATAGACCTCCTGTTTGAAATCTTACTTATATCAGCTAC  AACAGGAAGCCCCTCATCTCGAAGAATTACCTGACTTGCGAGGTGAAAACAGACCAA  AGTATTATGGAAGAGAGTTTCATGGCATGATCTCCAGAGAAGCAGCCGACCAGCTTTGA  TTGTGGCTGAGGGGAGCTACCTCATCCGGGAGAGCCAGCGGCAGCCAGGGACCTACACTT  TGGCTTTAAGATTTGGAAGTCAAACCAGAACTTCAGGCTCTACTACGATGGCAAGCACT  TTGTTGGGAGAAACGCTTTGAGTCCATCCAGATCTGGTGAAGTATGGGCTTGATTACT  CTTTATATTGNAACCAAGGCAGCANAATACATTGNCAAGATGACGATNAACCAATTTA  TGAGCNCGTAGGATACACAACCNTTAAACAGAAAGCCANCATACAAAAACATATGCCAG  TCCTGAAAAAAAA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_001822 unedited  CAACTTCCAGGGCCAGGNAAGGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCT  GTTCAGGAAACAGCTATGACCGCGCCGAATCTAGAGTCGAGGNNTTTTTTTTTTTTTT  TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATCCTTAAGAAAAAAAAAGGAAGCTTT  CAATTTTTTTTTTTCTAAAAGCCATTTAATAAATTAATAAACGCCGGCCAAAAAAAT  CCCCAATCCAACGGGAAACCAATATTATTTAACAGAAAAGGGGGGGGGCCCTTTT  TATGGGGGGGGTAACCTTTTTAAAGGAACAAATTTGAAAACCCATTTTGTTTTGGGG  GAAAGAAAGTCCTTTGTAGAGAAAACTAAGAGAAACCGAATTTTTTGGGAAAGGGG  GGCTNNNTTTTTGGGTTATGGGAATGGAACAGCCAAAGGGGGGGTTATCCATTGGGGG  GGGGGGGTGGGCCAGCTTCAAAAACCAATGGCTTAGCCCCAAAAGCAAAGGCACAAC  AGGCTTACTTTGGGAAACATGGTGGATTACAAGCACAGACTACCCAAGACGCAAAGGGG  TGCAGGCGCAGGTTTGTGTTCTTTGTGTGGGGTTTCCTTGCCAGATAGGGGGCTAAT  CATGCAATAGCTTGGAGTTTCTCTGAACGGGATAAACACCCGGGATTCTCAAACAGAAA  GCGGGTGTCACTGGTTTAAAGGACAGCTGAACNNNNNCAAAAAACACAGAAAGTCCC  TCACTTTTATTCGGTTTTTTGCCCCACCCTTCTACTAAGAAAAAGGCCGCTCCCGGAG  CAAAAAAATTACTTTAAACCTCCCTTCATGAAAAAATTTCTTTTTCCCCAAATTA  ATTTAATAAAAAGAGCTTTCGTTTTGAAAACGAGCTCCCCCGTTCGTGGTACGGATATAT  CAAGGCGCGGG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001822
<b>Insert Size:</b>	2500 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_001822.3](#), [NP\\_001813.1](#)

**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]  
Transcript Variant: This variant (1) encodes the longest isoform (1, also known as alpha 2-chimerin).