

## Product datasheet for **MG222322**

### Chn2 (NM\_001163640) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chn2 (NM_001163640) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chn2
Synonyms:	1700026N20Rik; 4930557O16Rik; ARHGAP3; Bch
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG222322 representing NM\_001163640  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGCATCCAGCAACTCTAGTCTGTCCGGCTCCTCCGTGTCCTCTGATGCTGAGGAATACCAGCCTC  
 CAATATGGAAATCATACTTGATCAGCTGCAGCAAGAGGCACCTCGTCCCAAGAGGATCATTGTCCCGG  
 GGAGGTGGAAAACAGACCAAAATATTATGGAAGAGAGTTTCATGGGATCATCTCTCGGGAGCAGGCTGAT  
 GAGCTTCTAGGCGGCGTGGAAAGGTGCCTACATCCTTCGAGAAAGCCAGCGGCAGCCAGGATGCTACACGC  
 TGGCACTGAGGTTTGGGAACCAGACCTAAACTACCGGCTCTCCACGACGGGAAGCACTTTGTGGGTGA  
 GAAGAGGTTTGAATCCATTCACGACCTGGTGACAGATGGCTTGATCACACTCTACATAGAGACCAAGGCT  
 GCTGAGTACATCGCGAAAATGACCACAAATCCCATCTACGAGCACATCGGATACGCCACTCTCTCAGAG  
 AAAAGTGTCCCAGGCTGAGCAGGTCTAAAAACGAATCAAGGAAAGCTAGCGTCAGCAACGAGGAGCA  
 CAGCCAGTGGAGAAGATCTTCACTGGTCCGAAGAGCTGCCCTCACACACAACGACAACCACTTCAAC  
 TATGAGAAGACACAACTTCAAGGTGCACACATTCGGGGGCCACACTGGTGTGAATACTGTGCCAATT  
 TTATGTGGGGGCTCATCGCCAGGGAGTCCGGTGTTCAGATTGTGGGTTAAACGTACACAAAACAGTGCTC  
 CAAGCACGTCCCCAATGACTGCCAGCCAGATCTCAAGAGGATCAAGAAAGTGTACTGCTGTGACCTCACC  
 ACGCTTGTCAAAGCTCACAACACTCAGAGACCCATGGTGGTGGACATATGTATTCGGGAAATTGAAGCAA  
 GAGGATTAAGTCAAGGGCTTACAGAGTCTCTGGATTCACAGAACACATTGAAGATGTCAAGATGGC  
 GTTTGACAGAGATGGTAAAAGGCGGATATCTCTGCCAACATCTACCCAGACATAAACATCATCACTGGA  
 GCCCTGAAACTGTACTTCCGAGACTTACCCATCCCTATCATCACATATGACACCTACTCCAAATTTATAG  
 AGGCACAAAAATCTCCAATGCGGATGAGAGGCTGGAAGCTGTCCATGAGGTCTGTGCTGCTGCCCTC  
 TGCCCACTATGAGACCTGCGCTACCTGATGATCCACCTGAAAAAGGTTACCATGAATGAAAAGGACAAT  
 TTAATGAATGCCAAAATCTGGGGATCGTGTGGGCCACCCTGATGAGACCCCTGAGGACAGCACCC  
 TCACCACCTCCATGACATGCGGTACCAAAAGCTGATCGTGCAGATTTTAAATAGAAAACGAAGATGTTCT  
 GTTT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG222322 representing NM\_001163640  
 Red=Cloning site Green=Tags(s)

MAASSNSLSGSSVSSDAEEYQPPIWKSPLYQLQQEAPRPKRIICPREVENRPKYYGREFHGIISREQAD  
 ELLGGVEGAYILRESQRQPGCYTLALRFGNQTLNYRLFHDGKHFVGEKRFESIHDLVTDGLITLYIETKA  
 AEYIAKMTTNPIYEHIGYATLLREKVSRRLSRSKNESRKASVSNEEHTPVEKISSLVRRRAALTHNDNHFN  
 YEKTHNFKVHTFRGPHWCEYCANFMWGLIAQGVRCSDCLNVHKQCSKHVPNDQCQPDLKRIKKVYCCDLT  
 TLVKAHNTQRPMVVDICIREIEARGLKSEGLYRVSGFTEHIEDVKMAFDRDGEKADISANIYPDINIITG  
 ALKLYFRDLPIPIITYDYTSKFIEAAKISNADERLEAVHEVLMLLPPAHYETLRYLMIHLKKVTMNEKDN  
 LMNAENLGIVFGPTLMRPPEDSTLTTLHDMRYQKLVQILINEDVLF

**TRTRPLE** - GFP Tag - V

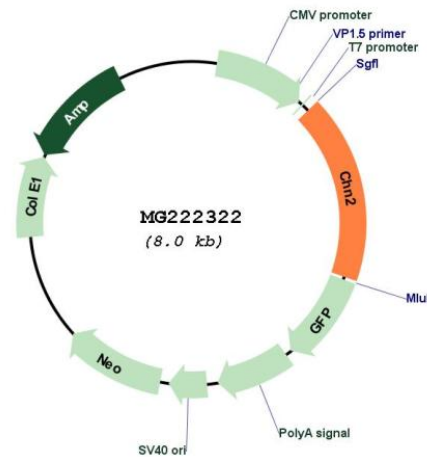
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001163640

ORF Size: 1404 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\\_001163640.1](#), [NP\\_001157112.1](#)

**RefSeq Size:** 3150 bp

**RefSeq ORF:** 1407 bp

**Locus ID:** 69993

**Cytogenetics:** 6 B3

**Gene Summary:** GTPase-activating protein for p21-rac.[UniProtKB/Swiss-Prot Function]