

Product datasheet for **MR217567**

Chn1 (NM_001113246) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chn1 (NM_001113246) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chn1
Synonyms:	0610007119Rik; 0710001E19Rik; 1700112L09Rik; 2900046J01Rik; AI413815; ARHGAP2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR217567 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCTGACCCTGTTTCGATACAGATGAATATAGACCTCCTGTTTGAAATCTTACTTATACCAGCTGC
 AGCAGGAAGCCCTCACCTCGAAGGGTCACCTGCACTTGTGAGGTAGAAAACAGACCAAAGTATTATGG
 AAGAGAGTATCATGGCATGATCTCTAGAGAAGAGACTGACCAGCTCCTGAGTGTGGCTGAGGGGAGCTAC
 CTCATCCGTGAGAGCCAGCGGCAGCCAGGAACGTACACTTTGGCTTTAAGATTTGGAAGTACAGCCAGAA
 ACTTCAGGCTGTACTACGATGGAAGCACTTTGTTGGGAGAAAACGCTTTGAGTCCATCCAGCATCTGGT
 GACTGATGGCTTGATTACTCTCTATATTGAAACCAAGGCAGCAGAATACATTGCCAAGATGACGATAAAC
 CCAATTTATGAGCACATAGGATACACAACCTTAAACAGAGAGCCAGCATACAAACAGCACATGGCAGTCC
 TGAAGAGACACATGATGAGAAAGAGGCTACAGGCCAGGATGGGGTATCAGAGAAAAGTTGACATCACT
 TGTTAGAAGAGCAACTCTGAAAGAAAATGAACAAATCCAAAATATGAAAAGTTACAATTTCAAGGTG
 CATACTGTTCCGAGGGCCACTGGTGTGAATACTGTGCCAATTCATGTGGGGCCCTATTGCTCAGGGAG
 TGAATGTGCAGATTGTGGGTTGAATGTTCAAGCAGTGTCCAAAGATGGTCCCAATGACTGTAGCC
 AGATCTGAAGCACGTGAAGAAGGTGTACAGCTGTGACCTGACAACGCTCGTAAAAGCTCACATACCAAG
 CGGCCAATGGTGGTAGACATGTGCATCAGGGAGATCGAGTCCAGAGGTCTTAATTCTGAAGGACTTACC
 GAGTGTGAGGATTTAGTGACCTGATTGAAGATGCAAGATGGCTTTTGTAGAGATGGTGAAGGCGGA
 TATTTCTGTGAACATGTATGAGGACATCAACATTACTGGTGCCTTAACTGTACTTCAGGGATCTG
 CCAATTCCTCTCATCACATACGATGCCTACCCCAAGTTCATTGAGTCTGCCAAAATATGGACCCGACG
 AGCAATTTGGAGACCCCTTACGAAGCACTGAGATCGCTGCCGCTGCCACTGCGAGAGCCTCCGGTACCT
 CATGGCGCATCTCAAGAGAGTGACCCCTTATGAGAAGGAGAATCTGATGAGTGCAGAGAACCTTGGGATC
 GTGTTTGACCAACCCTCATGAGATCCCAAGACTCGACCCCATGGCCGCTGAAACGACATACGCTATC
 AGAGACTGGTGGTGGAGCTGCTTATCAAAAACGAAGACATTTTATTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217567 protein sequence
 Red=Cloning site Green=Tags(s)

MALTLFDTDEYRPPVWKSYLEYLQEQEAPHRRVTCTCEVENRPKYGREYHGMISRETDQLLSVAEGSY
 LIRESQRQPGTYTLALRFGSQRNFRLLYYDGKHFVGEKRFESIHDLVTDGLITLYIETKAAEYIAKMTIN
 PIYEHIGYTTLNREPAYKQHMAVLKETHDEKEATGQDGVSEKRLTSLVRRATLKENEQIPKYEKVHNFV
 HTFRGPHWCEYCANFMWGLIAQGVKCADCGLNVHKQCSKMPNDCKPDLKHVKKVYSCDLTTLVKAHITK
 RPMVDMCIREIESRGLNSEGLYRVSGFSDLIEDVKMAFDRDGEKADISVNMEDINIITGALKLYFRDL
 PIPLITYDAYPKFIESAKIMDPDEQLETLHEALRSLPPAHCETLRYLMAHLKRVTLHEKENLMSAENLGI
 VFGPTLMRSPELDPMALNDIRYQRLVVELLIKNEIDILF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

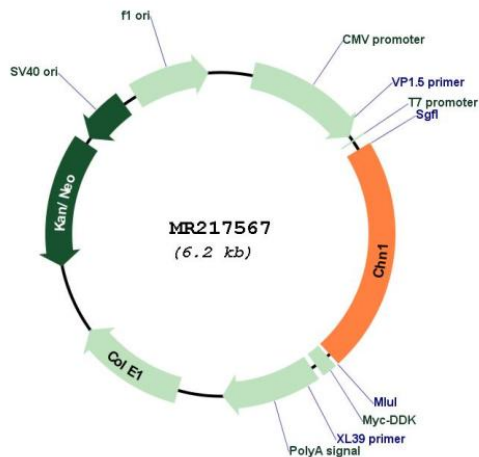
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001113246

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.

RefSeq: [NM_001113246.2](#), [NP_001106717.2](#)

RefSeq Size: 4050 bp

RefSeq ORF: 1380 bp

Locus ID: 108699

UniProt ID: [Q91V57](#)

Cytogenetics: 2 C3

MW: 53.2 kDa

Gene Summary: GTPase-activating protein for p21-rac and a phorbol ester receptor. May play an important role in neuronal signal-transduction mechanisms (By similarity). Involved in the assembly of neuronal locomotor circuits as a direct effector of EPHA4 in axon guidance.[UniProtKB/Swiss-Prot Function]