

Product datasheet for MR203209

Clic5 (NM_172621) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clic5 (NM_172621) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Clic5
Synonyms:	5730531E12Rik; B330005L24; Gm322; jbg
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203209 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGGACTCAGCGACAACTAATGGGGACGACAGGGACCCCGAGATCGAGCTCTTCGTGAAGGCTGGGA
TCGACGGGAAAGCATTGGCAACTGTCCCTTCTCTCAGCGTCTTTCATGATCCTCTGGTGAAAGGAGT
CGTGTTCATGTCACCACCGTGGATCTGAAAAGAAAGCCAGCCGATCTACACAACCTGGCTCCTGGCAGC
CACCCGCCCTTCTGACCTTCAATGGGGATGTGAAGACAGATGTCAACAAGATTGAAGAGTTCCTGGAGG
AGACCCTAACCCCGAGAAGTACCCAAACTGGCTGAAAACACCGGGAATCTAACACCGCGGGCATCGA
CATCTTCTCCAAGTTCTCAGCCTACATCAAAAACACCAAAACAACAGAACAATGCTGCCCTTGAGAGAGGC
TTGACAAAGGCGCTGAGGAAGCTGGATGACTACCTAAACAGCCCTCTGCCAGAGGAGATTGACACCAACA
CCCACGGGGACGAGAAGGGGTCCCAGCGCAAGTTCCTGGATGGGGATGAGCTGACCTGGCCGACTGCAA
TCTGCTGCCAAGCTGCATGTGGTCAAGATTGTGGCTAAGAAGTACCGAAACTATGACATCCCAGCTGAG
ATGACAGGCTTGTGGCGATACCTCAAGAATGCCTATGCACGGGACGAGTTCACCAACACCTGTGCAGCTG
ACAGTGAGATCGAGTTGGCTACGCAGATGTGCCAGGCGCCTCAGCCGATCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR203209 protein sequence
Red=Cloning site Green=Tags(s)

MTDSATTNGDDRDPEIELFVKAGIDGESIGNCPFSQRLFMILWLKGVVFNVTVDLKRKPADLHNLAPGT
 HPPFLTFNGDVKTVDNKEEFLEETLTPEKYPKLAAKHRESNTAGIDIFSKFSAYIKNTKQQNNAALERG
 LTKALRKLDDYLN SPLPEEIDTNTHGDEKGSQRKFLDGDELTLADCNLLPKLHVVKIVAKKYRNYDIPAE
 MTGLWRYLKNAYARDEF TNTCAADSEIELAYADVARRLSRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_172621

ORF Size: 756 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_172621.2](#), [NP_766209.1](#)

RefSeq Size: 5870 bp

RefSeq ORF: 756 bp

Locus ID: 224796

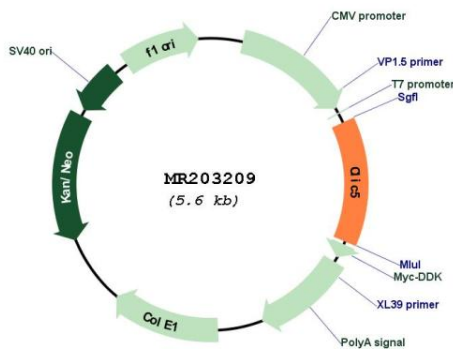
UniProt ID: [Q8BXK9](#)

Cytogenetics: 17 B3

MW: 28.3 kDa

Gene Summary: Required for normal hearing (By similarity). It is necessary for the formation of stereocilia in the inner ear and normal development of the organ of Corti. Can insert into membranes and form poorly selective ion channels that may also transport chloride ions. May play a role in the regulation of transepithelial ion absorption and secretion. Is required for the development and/or maintenance of the proper glomerular endothelial cell and podocyte architecture (PubMed:17021174). Plays a role in formation of the lens suture in the eye, which is important for normal optical properties of the lens (PubMed:29425878).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203209