

## Product datasheet for **MG203209**

### Clic5 (NM\_172621) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Clic5 (NM_172621) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Clic5
Synonyms:	5730531E12Rik; B330005L24; Gm322; jbg
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203209 representing NM_172621 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGGACTCAGCGACAATAATGGGGACGACAGGGACCCCGAGATCGAGCTCTTCGTGAAGGCTGGGA  
TCGACGGGAAAGCATTGGCAACTGTCCCTTCTCTCAGCGTCTTTCATGATCCTCTGGTGAAAGGAGT  
CGTGTTCATGTCACCACCGTGGATCTGAAAAGAAAGCCAGCCGATCTACACAACCTGGCTCCTGGCAGC  
CACCCGCCCTTCTGACCTTCAATGGGGATGTGAAGACAGATGTCAACAAGATTGAAGAGTTCCTGGAGG  
AGACCCTAACCCCGAGAAGTACCCAACTGGCTGAAAACACCGGGAATCTAACACCGCGGGCATCGA  
CATCTTCTCCAAGTTCTCAGCCTACATCAAAAACACCAAAACAACAGAACAATGCTGCCCTTGAGAGAGGC  
TTGACAAAGGCGCTGAGGAAGCTGGATGACTACCTAAACAGCCCTCTGCCAGAGGAGATTGACACCAACA  
CCCACGGGACGAGAAGGGTCCCAGCGCAAGTTCCTGGATGGGGATGAGCTGACCTGGCCGACTGCAA  
TCTGCTGCCAAGCTGCATGTGGTCAAGATTGTGGCTAAGAAGTACCGAAACTATGACATCCCAGCTGAG  
ATGACAGGCTTGTGGCGATACCTCAAGAATGCCTATGCACGGGACGAGTTCACCAACACCTGTGCAGCTG  
ACAGTGAGATCGAGTTGGCTACGCAGATGTGCCAGGCGCCTCAGCCGATCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203209 representing NM\_172621  
 Red=Cloning site Green=Tags(s)

MTDSATTNGDDRDPEIELFVKAGIDGESIGNCPFSQRLFMILWLKGVVFNVTVDLKRKPADLHNLAPGT  
 HPPFLTFNGDVKTDVNKIEEFLEETLTPEKYPKLAAKHRESNTAGIDIFSKFSAYIKNTKQONNAALERG  
 LTKALRKLDDYLN SPLPEEIDTNTHGDEKGSQRKFLDGDELTLADCNLLPKLHVVKIVAKKYRNYDIPAE  
 MTGLWRYLKNAYARDEF TNTCAADSEIELAYADVARRLSRS

TRTRPLE - GFP Tag - V

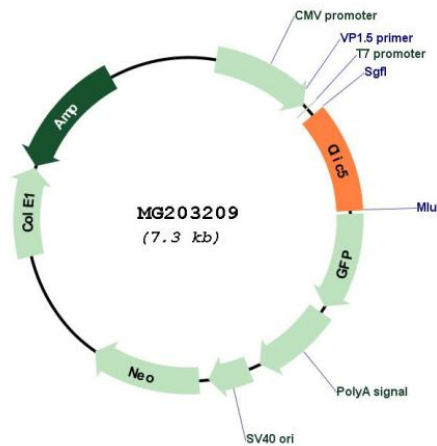
**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_172621

**ORF Size:** 753 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_172621.2</a> , <a href="#">NP_766209.1</a>
<b>RefSeq Size:</b>	5870 bp
<b>RefSeq ORF:</b>	756 bp
<b>Locus ID:</b>	224796
<b>UniProt ID:</b>	<a href="#">Q8BXK9</a>
<b>Cytogenetics:</b>	17 B3
<b>Gene Summary:</b>	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]