

## Product datasheet for **MG210162**

### **Tmcc2 (NM\_178874) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tmcc2 (NM_178874) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmcc2
Synonyms:	1110063G11Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG210162 representing NM\_178874  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGAGGTGCAAAATCGGACGAGCTGCAGCAACAGCAGGGCGAGGAGGATGGGGCTGGGATGGAAGACG  
 CTGCTTGCCCTTCTGCCAGGCGCGGACCTCCGGCATGGGGAGGCCTCGAGTGCTAACTCCGCTGGCGGGCC  
 AACTTCAGATGCTGGCGCTGCGGTGGCACCCAACCCGGTCCCGAAGCAAGCCTCTGATTTAAAGAAA  
 ATCCAGCAGCTCTCAGAGGGCTCCATGTTTGGCCACGGCCTGAAGCACCTGTTTCACAGCCGCCGAGGT  
 CACGGGAGAGGGAGCACCAGGCTCTCAGGAGGCCAGCAGCAGCAACAGCAGGGCCTATCCGATCA  
 GGACTCCCGAGATGAGAAGGAACGCTCCCGGAGATGCACCGCTCTCTATGCTGTGTCCCTGCACGAC  
 CTGCTGCCCGACCTACTGCTTCAACCGGTGTACAGCAAATCCGCTCCAGGCCCTCCATCAAGCGGG  
 GCGCCAGCCTGCACAGCAGTGGCGGGAGCGGTGGTCCCGTGCCAAGAGCAGCTCCCTGGAGCCACAGCG  
 TGGCAGTCTCACCTGCTTCGTAAGGCCCCAGGACAGCAGCCTGGCCGCCATCTGCACCAGCACCAG  
 GGCCGACCCCGTTCTCTCTACACCAGCACCCTTGTCTCTGGCCGATGGCAGCAGTGCCTACCTCC  
 TGGCTGAGGAAGCAGAGAGCATCGGGGACAAGGTGACAAGGGAGATCTTGTGGCCCTGAGCCTCCCTC  
 TGGCCCTGGCCATGGTACTCTGATGGACCCATCAGCCTGGATGTGCCAGATGGAGCACCAGCCCGAG  
 CGAACTAAGGCTGCCATCGAACCTGCACAAAAGATCTTGAAGTCACTGAGCAGATCAAGATCGAGC  
 AGGAGGCGCGGGATGATAACGTGGCAGAGTACCTGAAGCTGGCCAACAATGCGGACAAGCAGCAGGTGTC  
 GCGCATCAAGCAGGTGTTTGAAGAAGAACCAGAAGTCCGCCAGACCATCGCCAGCTGCACAAAAAA  
 CTGGAGCACTACCGTCCGCGCTGAAGGAAATCGAGCAGAATGGGCCCTCGCGGCAGCCCAAGGATGTGC  
 TACGCGATATGCAGCAAGGGCTGAAGGATGTGGCGCCAACATGCGTGCCGGCATTAGTGGCTTCGGGGG  
 TGGTGTGGTGGAGGGTGTCAAGGGCAGTCTTCCGGCCTCTCGAAGCTACCCACACTGCGGTGGTGTCC  
 AAGCCCCGGGAGTTCGCCAGCCTCATTGCAACAAGTTCGGCAGTGCCGACAACATCGCCACCTGAAGG  
 ACCCCATGGAAGATGGACCCCTGAAGAGGCAGCCCGGGCGCTGAGTGGCAGTGCCACACTGGTGTCCAG  
 CCCAAGTACGGCAGTGACGATGAATGCTCGAGTGCCAGTGCCAGCTCAGCTGGGGCAGGCAGCAACTCT  
 GGGGCTGGCCAGGAGGTGCACTGGGAAGCCGAGATCCAACACTCTTTATGGTGGCCCTGGAAATCTGG  
 AACTCTGCTGGAGGAACTGCGGGAGATAAAGGAGGGCCAGTACACCTGGAGGACTCCATGGAGGACTT  
 GAAGACTCAGCTGCAGAGGGACTACACCTACATGACCCAGTGCCTGCAAGAAGAGCGCTACAGGTATGAG  
 AGGCTGGAGGAACAGCTGAACGACCTGACTGAGCTTACCAGAATGAAATGACCAACCTAAAGCAGGAGC  
 TGGCCAGCATGGAGGAGAAGGTGGCCTACCAGTCTACGAGAGGGCCCGGATATCCAGGAGGCCGTGGA  
 GTCTGCCTGACCCGAGTACCAAGCTGGAAGTGCAGCAGCAGCAGCAAGTGGTGCAGTTAGAAGGT  
 GTGGAGAACGCCAACGCGCGCCCTGCTGGGCAAGTTCATCAACGTGATCCTGGCACTCATGGCCGTGC  
 TGCTGGTGTGTGTCCACCATTGCCAACTTATCACCCTCATGAAGACGCGCTCCGGATCACCAG  
 CACCGCCTCTGCTCTCTCTCTTCTACTGTGGAAGCACTGGGCCTCCCTCACCTACCTCTGGAG  
 CATGTGCTGCTGCCAGC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210162 representing NM\_178874  
 Red=Cloning site Green=Tags(s)

MKRCKSDELQQQQEEDGAGMEDAACLLPGADLRHGEASSANSAGGPTSDAGAAVAPNPGPRSKPPDLKK  
 IQQLSEGSFMFGHLKHLFHSRRRSRERHQASQEAQQQQQQGLSDQDSPDEKERSPEMHRVSYAVSLHD  
 LPARPTAFNRVLQQIRSRPSIKRGASLHSSGGSGRRRAKSSSLEPQRGSPHLLRKAPQDSSLAAIHLHQHQ  
 GRPRSSSTDDTALLLADGSSAYLLAEEAESIGDKGDKDLVALSLPSGPGHGDSDGPISLDVPDGAPDPQ  
 RTKAAIEHLHQKILKITEQIKIEQEARDNVAEYLKLANADKQVSRKQVFEKKNQKSAQTIAQLHKK  
 LEHYRRRLKEIEQNGPSRQPKDVL RDMQQGLKDVGANMRAGISGFGGGVVEGVKGSLSGLSQATHAVVS  
 KPREFASLIRNKFGSADNIAHLKDPMEDGPPEEAARALSGSATLVSSPKYGSDDCESSASASSAGAGSNS  
 GAGPGGALGSPRSNTLYGAPGNLDTLLEELREIKEGQSHLEDSMEDLKTQLQRDYTYMTQCLQEERYRYE  
 RLEEQLNDLTELHQNEMTNLKQELASMEEKVAYQSYERARDIQEAVE SCLTRVTKLELQQQQQVVQLEG  
 VENANARALLGKFINVILALMAVLLVFVSTIANFITPLMKTRLRITSTALLLLVLFLLWKHWASLTYLLE  
 HVLLPS

TRTRPLE - GFP Tag - V

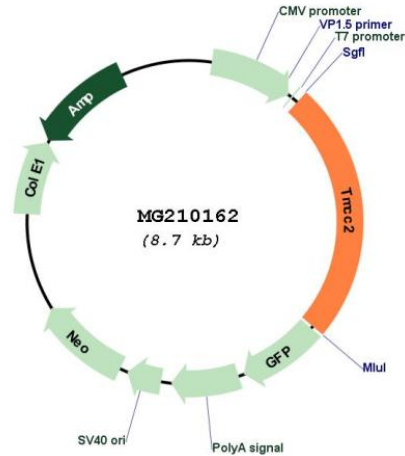
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



## Plasmid Map:



ACCN: NM\_178874

ORF Size: 2118 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\\_178874.3](#)

RefSeq Size: 3439 bp

RefSeq ORF: 2121 bp

Locus ID: 68875  
UniProt ID: [Q80W04](#)  
Cytogenetics: 1 E4  
Gene Summary: May be involved in the regulation of the proteolytic processing of the amyloid precursor protein (APP) possibly also implicating APOE.[UniProtKB/Swiss-Prot Function]