

## Product datasheet for **MG203562**

### Itm2c (NM\_022417) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Itm2c (NM\_022417) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Itm2c  
**Synonyms:** 3110038L02Rik; BRI3; Bricd2c; E25; E25C; ITM3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG203562 representing NM\_022417  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGAAGATCAGTTTCCAGCCCGCGGTAGCGGGCATCAAGGCTGATAAAGCGGACAAAGCAGCGGCGT  
CTGGTCCGGCCTCGGCATCTGCCCGGCCGCGGAGATCCTGCTGACGCCGCGGAGGGAGGAACGCCCC  
TCGCCACCGCTCCCGAAAGGAGGCTCCGTGGCGGCGTGTGCTACCTGTCCATGGGCATGGTTGTATTG  
CTCATGGCCTTGTGTTGCCTCGGTCTACATCTACAGTACTTCTTCTTGCTCAGCTGGCCCGAGATA  
ACTTCTCCACTGTGGTGTGCTCTACGAAGACTCCCTGTCTCCAGATCCGGACTCGCCTGGAGCTGGA  
AGAGGATGTGAAGATCTATCTTGAGGAGAACTATGAACGTATTAATGTCCCTGTGCCCCAGTTTGGTGGT  
GGGACCCCTGCAGACATCATCCATGACTTCCAGCGGGTCTCACTGCCTACCACGACATCTCCCTAGACA  
AGTGTACGTCATCGAGCTCAACACCACCATCGTGTACCCCCACGAACTTCTGGGAGCTCCTCATGAA  
CGTGAAGAGAGGGACCTACCTCCACAGACGTACATCATCCAGGAGGAGATGGTGGTGACAGAGCATGTC  
CGCGACAAGGAGGCTCTGGGTTCTTCTACCTGTGCAACGGGAAGGACACCTACCGGCTGCGGC  
GCCGGTCTACCCGAGGCGGATCAACAACGTGGGCAAGAAGTGAACGCCATCCGCCACTTCGAGAA  
TACATTTGTGGTGGAGACGCTCATCTGTGGGTTGGT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203562 representing NM\_022417  
 Red=Cloning site Green=Tags(s)

MVKISFQPAVAGIKADKADKAAASGPASASAPAAEILLTPAREERPPRHRSRKGGSVGGVCYLSMGMVVL  
 LMLGVFASVYIYRYFFLAQLARDNFFHCGVLYEDSLSSQIRTRLELEEDVKIYLEENYERINVPVPQFGG  
 GDPADIIHDFQRGLTAYHDISLDKCYVIELNTTIVLPPRNFWELLMNVKRGTYLPQTYIIQEEMVVEHV  
 RDKEALGSFIYHLCNGKDTYRLRRRSTRRRRINKRGAKNCNAIRHFENTFVVETLICGVV

TRTRPLE - GFP Tag - V

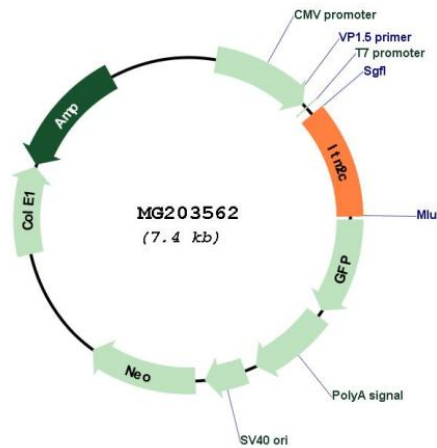
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_022417

**ORF Size:** 804 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_022417.1</a> , <a href="#">NP_071862.1</a>
<b>RefSeq Size:</b>	1969 bp
<b>RefSeq ORF:</b>	810 bp
<b>Locus ID:</b>	64294
<b>UniProt ID:</b>	<a href="#">Q91VK4</a>
<b>Cytogenetics:</b>	1 C5
<b>Gene Summary:</b>	Negative regulator of amyloid-beta peptide production. May inhibit the processing of APP by blocking its access to alpha- and beta-secretase. Binding to the beta-secretase-cleaved APP C-terminal fragment is negligible, suggesting that ITM2C is a poor gamma-secretase cleavage inhibitor. May play a role in TNF-induced cell death and neuronal differentiation. [UniProtKB/Swiss-Prot Function]