

## Product datasheet for **MC207550**

### Itm2c (NM\_022417) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Itm2c (NM\_022417) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Itm2c  
**Synonyms:** 3110038L02Rik; BRI3; Bricd2c; E25; E25C; ITM3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC207550 representing NM\_022417  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGTGAAGATCAGTTTCCAGCCCGGGTAGCGGGCATCAAGGCTGATAAAGCGGACAAAGCAGCGGGCT  
CTGGTCCGGCCTCGGCATCTGCCCGGCCGCGGAGATCCTGCTGACGCCGGGAGGGAGGAACGCCCCCC  
TCGCCACCGCTCCCGAAAGGAGGCTCCGTGGCGGCGTGTGCTACCTGTCCATGGGCATGGTTGTATTG  
CTCATGGCCTTGTGTTGCCTCGGTCTACATCTACAGGTAATCTTCTTGTCTCAGCTGGCCCGAGATA  
ACTTCTTCCACTGTGGTGTGCTCTACGAAGACTCCCTGTCTCCAGATCCGGACTCGCCTGGAGCTGGA  
AGAGGATGTGAAGATCTATCTTGAGGAGAACTATGAACGTATTAATGTCCCTGTGCCCAAGTTTGGTGGT  
GGGACCTGCAGACATCATCCATGACTTCCAGCGGGTCTCACTGCCTACCACGACATCTCCCTAGACA  
AGTGCTACGTATCGAGCTCAACACCACCATCGTGCTACCCACGAACTTCTGGGAGCTCCTCATGAA  
CGTGAAGAGAGGGACCTACCTCCACAGACGTACATCATCCAGGAGGAGATGGTGGTGACAGAGCATGTC  
CGCGACAAGGAGGCTCTGGTTCCTTCTACCTACCTGTGCAACGGGAAGGACACCTACCGGCTCGCC  
GCCGGTCTACCCGAGGGCGATCAACAAACGTGGGGCAAGAAGTGAACGCCATCCGCCACTTCGAGAA  
TACATTTGTGGTGGAGACGCTCATCTGTGGGGTGGT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_022417  
**Insert Size:** 810 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_022417.3</a> , <a href="#">NP_071862.2</a>
<b>RefSeq Size:</b>	2024 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]