

Product datasheet for **RN206322**

Itm2c (NM_001009674) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itm2c (NM_001009674) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Itm2c
Synonyms:	MGC94903
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN206322 representing NM_001009674 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGAAGATCAGCTTCCAGCCCGGGTAGCGGGCGTCAAGGCCGAAAAGCAGACAAAGCAGCGGGCT
CTGGTCCGGCCTCGGCATCTGCCCGGCCGCGGAGATTCTGCTGACGCCGGGAGGGAGGAACGCCCC
TCGCCACCGCTCCAGAAAGGGGCTCCGTGGGCGGTGTGTGCTACCTGTCCATGGGCATGGTTGTACTG
CTTATGGCCTTGTGTTGCCTCGGTCTACATCTACAGATACTTCTTCTTGCTCAGCTGGCCCGGATA
ACTTCTTCCACTGCGGTGTGCTCTACGAAGACTCCCTATCCTCCCAGATCCGGACTCGGCTGGAAGTGA
GGAGGATGTGAAGATCTATCTTGAGGAGAACTATGAACGTATTAATGTCCCTGTGCCCAAGTTGGTGGT
GGGACCTGCAGACATCATCCATGACTTTCAGCGGGTCTCACTGCCTACCACGACATCTCCCTGGACA
AGTGCTACGTATTGAGCTCAACACCACCATCGTGCTGCCCCACGAACTTCTGGGAGCTCCTCATGAA
CGTGAAGAGAGGGACCTACCTCCCACAGACGTACATCATCCAGGAGGAGATGGTGGTGACAGAGCATGTC
CGAGACAAGGAGGCTCTGGTTCTTTATCTACCACCTGTGCAACGGGAAGGACACCTATCGGCTCGGC
GCCGGCCACCGGAGGCGGATCAACAAGCGTGGGGCCAAGAAGTGAATGCCATCCGCCACTTCAGAA
TACATTTGTGGTGGAGACGCTCATCTGTGGGGTGGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001009674
Insert Size:	810 bp



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OTI Disclaimer:	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).
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:	<ol style="list-style-type: none">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:	<u>NM_001009674.1</u> , <u>NP_001009674.1</u>
RefSeq Size:	2083 bp
RefSeq ORF:	810 bp
Locus ID:	301575
UniProt ID:	<u>Q5PQL7</u>
Cytogenetics:	9q35
Gene Summary:	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 (By similarity).[UniProtKB/Swiss-Prot Function]