

Product datasheet for **SC334445**

ITM2C (NM_001287240) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITM2C (NM_001287240) Human Untagged Clone
Tag:	Tag Free
Symbol:	ITM2C
Synonyms:	BRI3; BRICD2C; E25; E25C; ITM3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001287240, the custom clone sequence may differ by one or more nucleotides

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ATGGGCATGGTCGTGCTGCTCATGGGCCTCGTGTTCGCCTCTGTCTACATCTACAGATACTTCTTCTTG  
CGCAGCTGGCCCGAGATAACTTCTCCGCTGTGGTGTGCTGTATGAGGACTCCCTGCTCCCAGGTCCG  
GACTCAGATGGAGCTGGAAGAGGATGTGAAAATCTACCTCGACGAGAAGCTACGAGCGCATCAACGTGCCT  
GTGCCCCAGTTTGGCGCGGTGACCCTGCAGACATCATCCATGACTTCCAGCGGGGTCTGACTGCGTACC  
ATGATATCTCCCTGGACAAGTGCTATGTCATCGAACTCAACACCACCATTGTGCTGCCCCCTCGCAACT  
CTGGGAGCTCCTCATGAACGTGAAGAGGGGACCTACCTGCCGACGACGTACATCATCCAGGAGGAGATG  
GTGGTCACGGAGCATGTCAGTGACAAGGAGGCCCTGGGGTCTTCATCTACCACCTGTGCAACGGGAAAG  
ACACCTACCGGCTCCGGCGCCGGCAACGCGGAGCGGATCAACAAGCGTGGGGCCAAGAACTGCAATGC  
CATCCGCCACTTCGAGAACACCTTCGTGGTGGAGACGCTCATCTGCGGGTGGTGA
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001287240
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:

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_001287240.1](#), [NP_001274169.1](#)

RefSeq Size: 2051 bp

RefSeq ORF: 618 bp

Locus ID: 81618

UniProt ID: [Q9NQX7](#)

Cytogenetics: 2q37.1

Protein Families: Transmembrane

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]

Transcript Variant: This variant (4) differs in its 5' UTR and initiates translation from a downstream start codon, compared to variant 1. The encoded isoform (4) has a shorter N-terminus, compared to isoform 1.