

Product datasheet for **SC322578**

ITM2C (NM_001012516) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITM2C (NM_001012516) Human Untagged Clone
Tag:	Tag Free
Symbol:	ITM2C
Synonyms:	BRI3; BRICD2C; E25; E25C; ITM3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322578
 CTGCACCGGCAGAGGCTGCGGGGCGGACGCGGGCCGGCGCAGCCATGGTGAAGATTAG
 CTTCCAGCCCCTGGCTGGCATCAAGGGCGACAAGGCTGACAAGGCGTCGGCGTCGGC
 CCCTGCGCCGGCTCGGCCACCGAGATCCTGCTGACGCGGGCTAGGGAGGAGCAGCCCC
 ACAACATCGATCCAAGAGGGGGAGCTCAGTGGGCGGCGTGTGCTACCTGTCGATGGGCAT
 GGTGCTGCTCATGGCCCTCGTGTTCGCCTCTGTCTACATCTACAGATACTTCTTTCT
 TGACAGCTGGCCGAGATAACTTCTCCGCTGTGGTGTGCTGTATGAGGACTCCCTGTC
 CTCCCAGGTCCGGACTCAGATGGAGCTGGAAGAGGATGTGAAAATCTACCTCGACGAGAA
 CTACGAGCGCATCAACGTGCCTGTGCCCAAGTTGGCGGCGGTGACCCTGCAGACATCAT
 CCATGACTTCCAGCGGAGGGGGACCTACCTGCCGACAGCTACATCATCCAGGAGGAGAT
 GGTGGTACCGGAGCATGTGAGTACAAGGAGGCCCTGGGGTCTTTCATCTACCACCTGTG
 CAACGGGAAAGACACCTACCGGCTCCGGCGCCGGGCAACGCGGAGGCGGATCAACAAGCG
 TGGGGCCAAGAAGTGAATGCCATCCGCCACTTCGAGAACACCTTCGTGGTGGAGACGCT
 CATCTGCGGGGTGGTGTGAGGCCCTCCTCCCCAGAACCCTGCGGTGTTCTCTTTTC
 TTCTTTCCAGCTGCTCTGTGCCCTCCTCCTTCCCCTGCTTAGCTTGTACTTTGGACGC
 GTTCTATAGAGGTGACATGTCTCTCCATTCCTCTCCAACCTGCCACCTCCCTGTACC
 AGAGCTGTGATCTCTCGGTGGGGGGCCATCTCTGCTGACCTGGGTGTGGCGGAGGGAGA
 GGCGATGCTGCAAAGTGTCTTCTGTGCCACTGTCTTGAAGCTGGGCTGCCAAAGCCT
 GGGCCACAGCTGCACCGGCAGCCCAAGGGGAAGGACCGGTTGGGGGAGCCGGGCATGTG
 AGGCCCTGGGCAAGGGGATGGGGCTGTGGGGCGGGGCGGCATGGGCTTCAGAAGTATCT
 GCACAATTAGAAAAGTCTCAGAAGCTTTCTTGGAGGGTACACTTTCTCACTGTCCCT
 ATTCCTAGACCTGGGGCTTGAGCTGAGGATGGGACGATGTGCCAGGGAGGGACCCACCA
 GAGCACAAGAGAAGGTGGCTACCTGGGGGTGCCAGGGACTCTGTGAGTGCCTTCAGCC
 CACCAGCAGGAGCTTGGAGTTTGGGGAGTGGGGATGAGTCCGTCAAGCACAACTGTTCTC
 TGAGTGGAAACAAAGAAGCAAGGAGCTAGGACCCCAAGTCTGCCCCCAAGGAGCACAAG
 CAGGGTCCCTCAGTCAAGGCAGTGGGATGGGCGGCTGAGGAACGGGGCAGGCAAGGTCA
 CTGCTCAGTACGTCACCGGGGACGAGCCGTGGGTTCTGCTGAGTAGGTGGAGCTCATT
 GCTTTCTCCAAGCTTGAAGTGTGTTTGAAGATAACACAGAGGGAAAGGGAGAGCCACCT
 GGTACTTGTCCACCCTGCCTCCTCTGTTCTGAAATTCATCCCCCTCAGTTAGGGGAAT
 GCACCTTTTTCCCTTCTCTCACTTTTGCATGTTTTACTGATCATTGATATGCTAA
 CCGTTCTCAGCCCTGAGCCTTGAGAGGAGGGCTGTAAACGCTTCAGTCAGTCTCTGGGG
 ATGAAACTCTTAAATGCTTTGTATATTTTCTCAATTAGATCTCTTTTCAGAAAGTGTCTAT
 AGAAACAATAAAAACTTTTACTTCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAA
 AAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_001012516

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001012516.1](#), [NP_001012534.1](#)

RefSeq Size: 2012 bp

RefSeq ORF: 693 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 (2) lacks an in-frame exon in the central coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.