

Product datasheet for **SC323848**

ITM2C (NM_001012514) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITM2C (NM_001012514) 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 NM_001012514.1
 GGCGGAGGCAGAGACCGAGGCTGCACCGGCAGAGGCTGCGGGCGGACGCGCGGGCCGGC
 GCAGCCATGGTGAAGATTAGCTTCCAGCCCCTGGCTGGCATCAAGGGCGACAAGGCT
 GACAAGGCGTCGGCGTCGGCCCCGCGCCGGCCTCGGCCACCGAGATCCTGCTGACGCCG
 GCTAGGCTGGCCCGAGATAAATTCTTCCGCTGTGGTGTGCTGTATGAGGACTCCCTGTCC
 TCCCAGGTCGGGACTCAGATGGAGCTGGAAGAGGATGTAAAACTACCTCGACGAGAAC
 TACGAGCGCATCAACGTGCCTGTGCCCAAGTTTGGCGGGGTGACCCTGCAGACATCATC
 CATGACTTCCAGCGGGTCTGACTGCGTACCATGATATCTCCCTGGACAAGTGCTATGTC
 ATCGAACTCAACACCACCATTTGTGCTGCCCCCTCGCAACTTCTGGGAGCTCCTCATGAAC
 GTGAAGAGGGGGACCTACCTGCCGACAGCTACATCATCCAGGAGGAGATGGTGGTCACG
 GAGCATGTCAGTGACAAGGAGGCCCTGGGGTCTTTCATCTACCACCTGTGCAACGGGAAA
 GACACCTACCGGCTCCGGCGCCGGGCAACGCGGAGGCGGATCAACAAGCGTGGGGCAAG
 AACTGCAATGCCATCCGCCACTTCGAGAACACCTTCGTGGTGGAGACGCTCATCTCGGG
 GTGGTGTGAGGCCCTCTCCCCAGAACCCTGCCGTTCCTCTTTCTTTCTTTCCGG
 CTGCTCTCTGGCCCTCTCTCCCCCTGCTTAGCTTGTACTTTGGACGCGTTTCTATAG
 AGGTGACATGTCTCTCCATTCTCTCAACCCTGCCACCTCCCTGTACCAGAGCTGTGA
 TCTCTCGGTGGGGGCCATCTCTGCTGACCTGGGTGTGGCGGAGGGAGAGGCGATGCTG
 CAAAGTGTCTTCTGTGTCCCACTGTCTTGAAGCTGGGCCTGCCAAAGCCTGGGCCACAG
 CTGCACCGGCAGCCCAAGGGGAAGGACCGGTTGGGGGAGCCGGGCATGTGAGGCCCTGGG
 CAAGGGGATGGGGCTGTGGGGCGGGGCGGCATGGGCTTCAGAAGTATGTCACAATTAG
 AAAAGTCTCAGAAGCTTTTCTTGGAGGTACTTTTCTTCACTGTCCCTATTCCTAGA
 CCTGGGGCTTGAAGTGGAGATGGGACGATGTGCCAGGGAGGGACCCACCACAGCACAAG
 AGAAGTGGCTACCTGGGGGTGCCAGGACTCTGTCAGTGCCTTCAGCCACCAGCAG
 GAGCTTGGAGTTTGGGGAGTGGGGATGAGTCCGTCAAGCACAACCTGTTCTCTGAGTGAA
 CCAAAGAAGCAAGGAGCTAGGACCCCCAGTCTGCCCCCCAGGAGCACAAGCAGGGTCCC
 CTCAGTCAAGGCAGTGGGATGGGCGGCTGAGAACGGGGCAGGCAAGGTCCTGCTCAGTC
 ACGTCCACGGGGACGAGCCGTGGGTTCTGCTGAGTAGGTGGAGCTATTGCTTTCTCCA
 AGCTTGGAACTGTTTTGAAAGATAACACAGAGGGAAAGGGAGAGCCACCTGGTACTTGTC
 CACCCTGCCTCTCTGTTCTGAAATTCATCCCCCTCAGCTTAGGGGAATGCACCTTTTT
 CCCTTTCTTCTCACTTTTGCATGTTTTACTGATCATTGATATGCTAACCGTTCTCAG
 CCCTGAGCCTTGGAGAGGAGGGCTGTAAAGCCTTCAGTCACTCTGCGGATGAAACTCT
 TAAATGCTTTGTATATTTCTCAATTAGATCTCTTTTCAGAAAGTGTCTATAGAACAATAA
 AAATCTTTTACTTCTGAAA
 AAAAAAAAAAAAAAAAAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_001012514

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:	<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_001012514.1, NP_001012532.1</u>
RefSeq Size:	1982 bp
RefSeq ORF:	663 bp
Locus ID:	81618
UniProt ID:	<u>Q9NQX7</u>
Cytogenetics:	2q37.1
Protein Families:	Transmembrane
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks an in-frame exon in the central coding region, compared to variant 1. The encoded isoform (3) is shorter, compared to isoform 1.</p>