

Product datasheet for **SC109191**

ITM2C (NM_030926) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITM2C (NM_030926) Human Untagged Clone
Tag:	Tag Free
Symbol:	ITM2C
Synonyms:	BRI3; BRICD2C; E25; E25C; ITM3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109191 sequence for NM_030926 edited (data generated by NextGen Sequencing)

```

ATGGTGAAGATTAGCTTCCAGCCCGCCGTGGCTGGCATCAAGGGCGACAAGGCTGACAAG
GGTTCGGCGTCGGCCCTGCGCCGGCCTCGGCCACCGAGATCCTGCTGACGCCGGCTAGG
GAGGAGCAGCCCCACAACATCGATCCAAGAGGGGGAGCTCAGTGGGCGGCGTGTGCTAC
CTGTTCGATGGGCATGGTCGTGCTGCTCATGGGCCTCGTGTTCGCCTCTGTCTACATCTAC
AGATACTTCTTTCTTGCACAGCTGGCCCGAGATAACTTCTCCGCTGTGGTGTGCTGTAT
GAGGACTCCCTGTCTCCAGGTCGGACTCAGATGGAGCTGGAAGAGGATGTGAAAATC
TACCTCGACGAGAACTACGAGCGCATCAACGTGCCTGTGCCCCAGTTTGGCGGCGGTGAC
CCTGCAGACATCATCCATGACTTCCAGCGGGGTCTGACTGCGTACCATGATATCTCCCTG
GACAAGTGTATGTCATGAACTCAACACCACCATTGTGTGCCCCCTCGCAACTTCTGG
GAGCTCCTCATGAACGTGAAGAGGGGGACCTACCTGCCGACAGCTACATCATCCAGGAG
GAGATGGTGGTCACGGAGCATGTCAAGTGAAGAGGGCCCTGGGGTCTTTCATCTACCAC
CTGTGCAACGGGAAAGACACCTACCGGCTCCGGCGCCGGGCAACGCGGAGGCGGATCAAC
AAGCGTGGGGCAAGAAGTGAATGCCATCCGCCACTTCGAGAACACCTTCGTGGTGGAG
ACGTCATCTGCGGGGTGGTGTGA

```

Clone variation with respect to NM_030926.4
157 g=>a;252 c=>t;258 g=>a



[View online »](#)

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_030926 unedited</p> <pre>AAGTTCAAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGAGGCTGCA CCGGCAGAGGCTGCGGGGCGGACGCGCGGGCCGGCGCAGCCATGGTGAAGATTAGCTTCC AGCCCCCGTGGCTGGCATCAAGGGCGACAAGGCTGACAAGGCGTCGGCGTCGGCCCCCTG CGCCGGCTCGGCCACCGAGATCCTGCTGACGCGGGCTAGGGAGGAGCAGCCCCACAAC ATCGATCCAAGAGGGGAGCTCAGTGGGCGGCGTGTGCTACCTGTGATGGGCATGGTGC TGCTGCTCATGGGCCTCGTGTTCGCCTCTGTCTACATCTACAGATACTTTCTTTGCAC AGCTGGCCCGAGATAACTTCTTCGCTGTGGTGTGCTGTATGAGGACTCCCTGTCCTCCC AGGTCCGACTCAGATGGAGCTGGAAGAGGATGTGAAAATCTACCTCGACGAGAATACTACG AGCGCATCAACGTGCCTGTGCCAGTTTGGCGCGGTGACCCTGCAGACATCATCCATG ACTTCCAGCGGGTCTGACTGCGTACCATGATATCTCCCTGGACAAGTGTATGTCATCG AACTCAACACCACCATTGTGCTGCCCCCTCGAACTTCTGGGAGCTCCTCATGAACGTGA AGAGGGGGACCTACCTGCCGACGACGTACATCATCCAGGAGGAGATGGTGGTACGGAGC ATGTCAGTGACAAGGAGGCCCTGGGGTCTTCATCTACCACCTGTGCAACGGGAAAGACA CCTACCGCTCCGGCGCCGGGCAACGCGNNAGCGGATCAACAGCGTGGGGCCCAAGAAC TGCATGCCATCCGCCACTTCGAGAACACCTTNCGTGTGNAGACGCTCATCTGCNGTGG GTGTGAGGCCCTCTCCCCANAAC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_030926 unedited</p> <pre>GGCCGAATCTANAGTCGAGNTT TTTTTTTTTTTTTTTTTCAAAAAGAAAAAATTTTTTTTGTATAAACCTTTTGAA AAAAATTTATTTGAAAAATTTCAAAGCTTTTAAAAGTTTCTCCCAAAAAGTATT GAAGGGTTACACCCCTCTTCCAAGTTAAGGGTTGAAAACGGTTACCTTTTCGAATG ATCAGTAAAAACTTCAAAGTAAAAGGAAGGGGAAAAAGGGGCTTCCCTAAGCTGG GGGGAGGGAATTTCAAACAAAGGAGGCGGGGGGACAAGCCCCAGGGGCTCCCCCTT TCCCTTTGGGTTATTTTAAAAACAGTTCCAAGCTTGGAAAAAGCAATGACCTCCCCCTA CTAAGAAAAACCCACGGTTCGCCCCCGGGGACGTGACTGAACAGGGACCTTGCTTGCC CGTTCTAAGCCGCCCTCCCACTGCTTTGACTGAGGGGACCCTGTTGTCTCTCTGGGG GGCAGAAGTGGGGGCCCTACCTCCTTGTTTTTTGGTCCCACTCAAAGAACAGTTGGGCT TGACGGACTCATCCCCACTCCAAAACTCAAAGCTCCTGTTGGGGGCTAAAGGCACTGA CAAATTCCTGGGACACCCCAAGNACCCCTTCTTTTGTGCTCTGGNGGGCCCTCCTT GGCAATTGCCCATCCTTATTAACCCAGGTTTAGAAATGGGACGGGAAAAAGTGCC CCTCAAAAAAATTTGAGGACTTTTCTAATGGCAAACTTTTGAAGCATGCCGGCCGNC CCAAAACCATTCCTTGCCAGGGCTTAATGGCGGCTCCCAACGGTCTTCCCTGGTTGCC GGGCATTGTGGCCAGCTTTCGCCCATTTAAAACGGGGAACCAAAAACTTTGTACAAT CCTT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_030926
Insert Size:	2140 bp
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_030926.4](#), [NP_112188.1](#)

RefSeq Size: 2123 bp

RefSeq ORF: 804 bp

Locus ID: 81618

UniProt ID: [Q9NQX7](#)

Cytogenetics: 2q37.1

Domains: BRICHOS

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 (1) encodes the longest isoform (1). Both variants 1 and 5 encode the same isoform.