

## Product datasheet for RC200947

### ITM2C (NM\_030926) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ITM2C (NM_030926) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ITM2C
Synonyms:	BRI3; BRICD2C; E25; E25C; ITM3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200947 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGAAGATTAGCTTCCAGCCCGCCGTGGCTGGCATCAAGGGCGACAAGGCTGACAAGGCGTCGGCGT  
CGGCCCTGCGCCGGCCTCGGCCACCGAGATCCTGCTGACGCGGCTAGGGAGGAGCAGCCCCACAACA  
TCGATCCAAGAGGGGGAGCTCAGTGGCGCGTGTGCTACCTGTCGATGGGCATGGTCGTGCTCATG  
GGCCTCGTGTTCGCTCTGTCTACATCTACAGATACTTCTTTCTTGCACAGCTGGCCGAGATAACTTCT  
TCCGCTGTGGTGTGCTGTATGAGGACTCCCTGTCTCCAGGTCGGACTCAGATGGAGCTGGAAGAGGA  
TGTGAAAATCTACCTCGACGAGAACTACGAGCGCATCAACGTGCCTGTGCCCCAGTTGGCGGCGGTGAC  
CCTGCAGACATCATCCATGACTTCCAGCGGGTCTGACTGCGTACCATGATATCTCCCTGGACAAGTGCT  
ATGTATCGAACTCAACACCACCATTTGTGCTGCCCCCTCGCAACTTCTGGGAGCTCCTCATGAACGTGAA  
GAGGGGGACCTACCTGCCGACAGCTACATCATCCAGGAGGAGATGGTGGTACCGGAGCATGTCAGTGAC  
AAGGAGGCCCTGGGGTCTTCTATCTACCACCTGTGCAACGGGAAAGACACCTACCGGCTCCGGCGCCGG  
CAACGCGGAGGCGGATCAACAAGCGTGGGGCAAGAAGTGAATGCCATCCGCCACTTCGAGAACACCTT  
CGTGGTGGAGACGCTCATCTCGGGGTGGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC200947 protein sequence  
 Red=Cloning site Green=Tags(s)

MVKISFQPAVAGIKGDKADKASAPAPASATEILLTPAREEQPPQHRSKRGSSVGGVCYLSMGMVLLM  
 GLVFASVYIYRYFFLAQLARDNFFRCGLVYEDSLSSQVRTQMELEEDVKIYLDENYERINVPVPQFGGD  
 PADIHDFQRGLTAYHDISLDKCYVIELNTTIVLPPRFWELLMNVKRGTYLPQTYIIQEEMVVEHVSD  
 KEALGSFIYHLCNGKDTYRLRRRATRRRINKRGAKNCNAIRHFENTFVVETLICGVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6171\\_g10.zip](https://cdn.origene.com/chromatograms/mk6171_g10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_030926

**ORF Size:** 801 bp

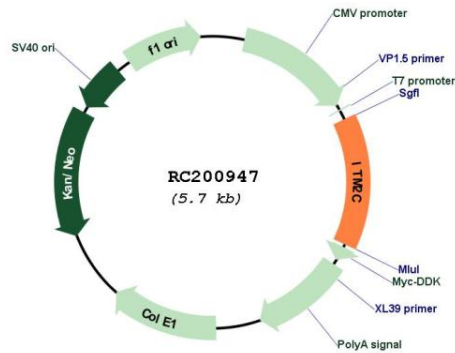
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

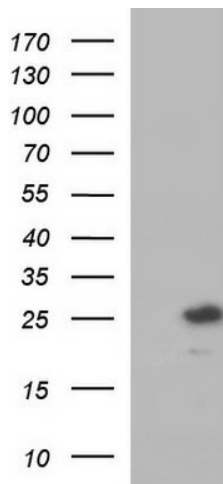
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_030926.6</a>
<b>RefSeq Size:</b>	2115 bp
<b>RefSeq ORF:</b>	804 bp
<b>Locus ID:</b>	81618
<b>UniProt ID:</b>	<a href="#">Q9NQX7</a>
<b>Cytogenetics:</b>	2q37.1
<b>Domains:</b>	BRICHOS
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	30.3 kDa
<b>Gene Summary:</b>	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]

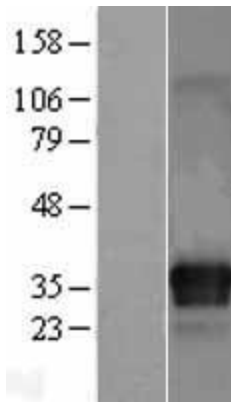
Product images:



Circular map for RC200947



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ITM2C (Cat# RC200947, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ITM2C (Cat# [TA590284]). Positive lysates [LY403097] (100ug) and [LC403097] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403097]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200947 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).