

Product datasheet for **RG200947**

ITM2C (NM_030926) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITM2C (NM_030926) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ITM2C
Synonyms:	BRI3; BRICD2C; E25; E25C; ITM3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200947 representing NM_030926 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGAAGATTAGCTTCCAGCCCGCCGTGGCTGGCATCAAGGGCGACAAGGCTGACAAGGCGTCGGCGT
CGGCCCTGCGCCGGCCTCGGCCACCGAGATCCTGCTGACGCGGCTAGGGAGGAGCAGCCCCACAACA
TCGATCCAAGAGGGGAGCTCAGTGGCGCGTGTGCTACCTGTCGATGGGCATGGTCGTGCTCATG
GGCCTCGTGTTCGCTCTGTCTACATCTACAGATACTTCTTTCTTGCACAGCTGGCCGAGATAACTTCT
TCCGCTGTGGTGTGCTGTATGAGGACTCCCTGTCTCCAGGTCGGACTCAGATGGAGCTGGAAGAGGA
TGTGAAAATCTACCTCGACGAGAACTACGAGCGCATCAACGTGCCTGTGCCCCAGTTTGGCGGCGGTGAC
CCTGCAGACATCATCCATGACTTCCAGCGGGTCTGACTGCGTACCATGATATCTCCCTGGACAAGTGT
ATGTATCGAACTCAACACCACCATTGTGCTGCCCCCTCGCAACTTCTGGGAGCTCCTCATGAACGTGAA
GAGGGGGACCTACCTGCCGACAGCTACATCATCCAGGAGGAGATGGTGGTACCGGAGCATGTCAGTGAC
AAGGAGGCCCTGGGGTCTTCTATCTACCACCTGTGCAACGGGAAAGACACCTACCGGCTCCGGCGCCGG
CAACGCGGAGGCGGATCAACAAGCGTGGGGCCAAGAAGTGAATGCCATCCGCCACTTCGAGAACACCT
CGTGGTGGAGACGCTCATCTGCGGGTGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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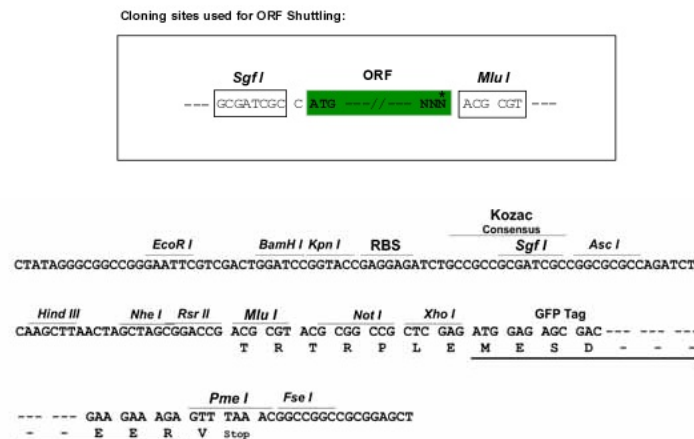
Protein Sequence: >RG200947 representing NM_030926
Red=Cloning site Green=Tags(s)

MVKISFQPAVAGIKGDKADKASAPAPASATEILLTPAREEQPPQHRSKRGSSVGGVCYLSMGMVLLM
 GLVFAVYIYRYFFLAQLARDNFFRCGLVYEDSLSSQVRTQMELEEDVKIYLDENYERINVPVPQFGGD
 PADIHDFQRGLTAYHDISLDKCYVIELNTTIVLPPRFWELLMNVKRGTYLPQTYIIQEEMVVTEHVSD
 KEALGSFIYHLCNGKDTYRLRRRATRRRINKRGAKNCNAIRHFENTFVVETLICGVV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

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](#)

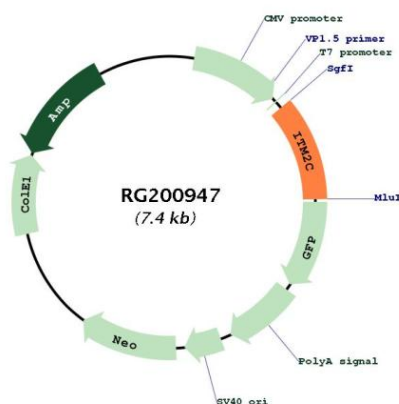
Cytogenetics: 2q37.1

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]

Product images:



Circular map for RG200947