

Product datasheet for **RG237044**

ITM2C (NM_001287241) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITM2C (NM_001287241) 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:	>RG237044 representing NM_001287241. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGTGAAGATTAGCTTCCAGCCCGCCGTGGCTGGCATCAAGGGCGACAAGGCTGACAAGGCGTCGGCG
TCGGCCCTGCGCCGGCCTCGGCCACCGAGATCCTGCTGACGCCGGCTAGGGAGGAGCAGCCCCACAA
CATCGATCCAAGAGGGGAGCTCAGTGGCGCGGTGTGCTACCTGTGATGGGCATGGTCGTGCTGCTC
ATGGGCCCTCGTGTTCGCCTCTGTCTACATCTACAGATACTTCTTTCTTGACAGCTGGCCCGAGATAAC
TTCTTCCGCTGTGGTGTGCTGTATGAGGACTCCCTGCTCCTCCAGGTCGGACTCAGATGGAGCTGGAA
GAGGATGTGAAAATCTACCTCGACGAGAACTACGAGCGCATCAACGTGCCTGTGCCCCAGTTGGCGGC
GGTGACCTGCAGACATCATCCATGACTTCCAGCGGGGTCTGACTGCGTACCATGATATCCTCCCTGGAC
AAGTGCTATGTCATCGAACTCAACACCACCATTGTGCTGCCCCCTCGCAACTTCTGGGAGCTCCTCATG
AACGTGAAGAGGGGGACCTACCTGCCGCAGACGTACATCATCCAGGAGGAGATGGTGGTCACGGAGCAT
GTCAGTGACAAGGAGGCCCTGGGGTCTTACCTACCCTGTGCAACGGGAAAGACACCTACCGGCTC
CGGCGCCGGGCAACGCGGAGCGGATCAACAAGCGTGGGGCCAAGAAGTCAATGCCATCCGCCACTTC
GAGAACACCTTCGTGGTGGAGACGCTCATCTGCGGGTGGTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



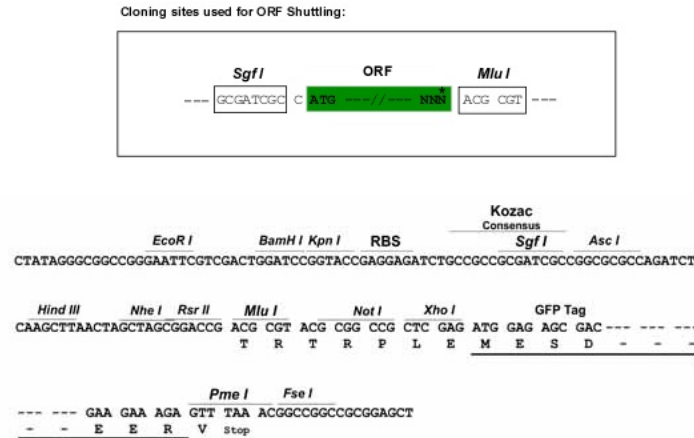
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237044
 Blue=ORF Red=Cloning site Green=Tag(s)

MVKISFQPAVAGIKGDKADKASAPAPASATEILLTPAREEQPPQHRSKRGSSVGGVCYLSMGMVLL
 MGLVFASVYIYRYFFLAQLARDNFFRCGLYEDSLSSQVRTQMELEEDVKIYLDENYERINVPVQFGG
 GDPADIHDFQRGLTAYHDIISLDKCYVIELNTTIVLPPRNFWELLMNVKRGTYLPQTYIIQEEMVTEH
 VSDKEALGSFIYHL CNGKDTYRLRRRTRRRRINKRGAKNCNAIRHFENTFVVETLICGVV
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001287241

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).

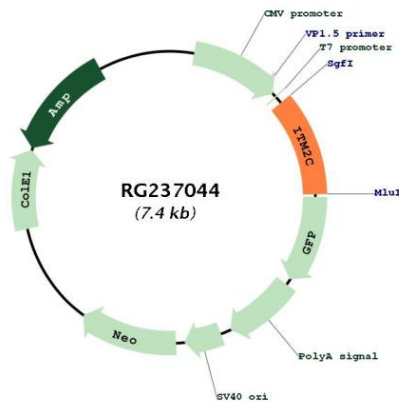
RefSeq: [NM_001287241.1](#), [NP_001274170.1](#)

RefSeq Size: 2247 bp

RefSeq ORF: 804 bp

Locus ID: 81618
UniProt ID: [Q9NQX7](#)
Cytogenetics: 2q37.1
Protein Families: Transmembrane
MW: 30.3 kDa
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 RG237044