

Product datasheet for **RG236551**

ITM2C (NM_001287240) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ITM2C (NM_001287240) 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: >RG236551 representing NM_001287240.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGCATGGTCGTGCTGCTCATGGGCCTCGTGTTCGCCTCTGTCTACATCTACAGATACTTCTTCCCT
GCGCAGCTGGCCCGAGATAAATTCTTCCGCTGTGGTGTGCTGTATGAGGACTCCCTGTCTCCAGGTC
CGGACTCAGATGGAGCTGGAAGAGGATGTGAAAATCTACCTCGACGAGAAGCTACGAGCGCATCAACGTG
CCTGTGCCCCAGTTTGGCGGGGTGACCCTGCAGACATCATCCATGACTCCAGCGGGTCTGACTGCG
TACCATGATATCTCCCTGGACAAGTGTATGTCATCGAACTCAACACCACCATTGTCTGCCCCCTCGC
AACTTCTGGGAGCTCCTCATGAACGTGAAGAGGGGGACCTACCTGCCGCAGACGTACATCATCCAGGAG
GAGATGGTGGTCACGGAGCATGTCAAGTACAAGGAGGCCCTGGGGTCTTCACTACCACCTGTGCAAC
GGGAAAGACACCTACCGCTCCGGCGCCGGCAACCGGGAGGCGGATCAACAAGCGTGGGGCCAAGAAC
TGCAATGCCATCCGCCACTTCGAGAACACCTTCGTGGTGGAGACGCTCATCTGCGGGGTGGT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236551
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MGMVLLMGLVFASVYIYRYFFLAQLARDNFFRCGVLVEDSLSSQVRTQMELEEDVKIYLDENYERINV
PVPQFGGGDPADIIHDFQRGLTAYHDIISLDKCYVIELNTTIVLPPRNFWELLMNVKRGTYLPQTYIIQE
EMVVTHEHVSDEKALGSFIYHLCNGKDYRLRRRATRRRINKRGAKNCNAIRHFENTFVVELICGVV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVDSHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI

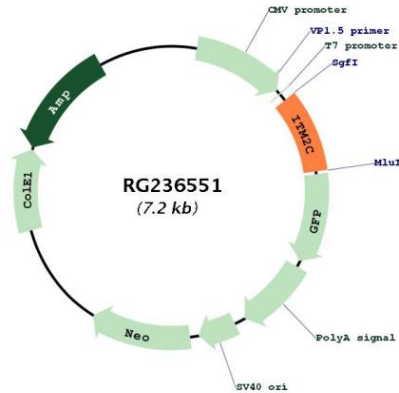


Cloning Scheme:


- ACCN:** NM_001287240
- ORF Size:** 615 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_001287240.2](#)
- RefSeq Size:** 2051 bp
- RefSeq ORF:** 618 bp
- Locus ID:** 81618
- UniProt ID:** [Q9NQX7](#)
- Cytogenetics:** 2q37.1
- Protein Families:** Transmembrane
- MW:** 24.4 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 RG236551