

Product datasheet for **RG202377**

ITM2B (NM_021999) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITM2B (NM_021999) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ITM2B
Synonyms:	ABRI; BRI; BRI2; BRICD2B; E3-16; E25B; FBD; imBRI2; RDGCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202377 representing NM_021999 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGAAGGTGACGTTCAACTCCGCTCTGGCCAGAAGGAGACCAAGAAGGACGAGCCCAAGAGCGGCG
AGGAGGCGCTCATCATCCCCCGACGCCGTCGCGGTGGACTGCAAGGACCCAGATGATGTGGTACCAGT
TGGCCAAAGAAGAGCCTGGTGTGGTGCATGTGCTTTGGACTAGCATTATGCTTGCAGGTGTTATTCTA
GGAGGAGCATACTTGACAAATATTTGCACTTCAACCAGATGACGTGTACTACTGTGGAATAAAGTACA
TCAAAGATGATGTCATCTTAAATGAGCCCTCTGCAGATGCCCGAGCTGCTCTCTACCAGACAATTGAAGA
AAATATTAATAATCTTTGAAGAAGAAGTTGAATTTATCAGTGTGCCTGTCCCAGATTTGCAGATAGT
GATCCTGCCAACATTGTTTCATGACTTTAACAAGAACTTACAGCCTATTTAGATCTTAACCTGGATAAGT
GCTATGTGATCCCTCTGAACACTTCCATTGTTATGCCACCCAGAAACCTACTGGAGTTACTTATTAACAT
CAAGGCTGGAACCTATTTGCCTCAGTCCTATCTGATTCATGAGCACATGGTTATTACTGATCGCATTGAA
AACATTGATCACCTGGGTTTCTTTATTTATCGACTGTGTCATGACAAGGAACTTACAACTGCAACGCA
GAGAACTATTAAGGTATTCAGAAACGTGAAGCCAGCAATTGTTTCGCAATTCGGCATTGTTGAAAAACA
ATTTGCCGTGAAACTTTAATTTGTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202377 representing NM_021999
 Red=Cloning site Green=Tags(s)

MVKVTFNSALAQKETKKDEPKSGEEALIPPDAVAVDCKDPDDVVPVVGQRRAWCWCFCGLAFMLAGVIL
 GGAYLYKYFALQPDDVYYCGIKYIKDDVILNEPSADAPAALYQTEENIKIFEEEEVEFISVPVPEFADS
 DPANIVHDFNKKLTAYLDLNLDKCYVIPLNTSIVMPPRNLELLINIKAGTYLPQSYLIHEHMTVDRIE
 NIDHLGFFIYRLCHDKETYKLRRETIKGIQKREASNCFAIRHFENKFAVETLICS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021999

ORF Size: 798 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_021999.2](#), [NP_068839.1](#)

RefSeq Size: 1896 bp

RefSeq ORF: 801 bp

Locus ID: 9445

UniProt ID: [Q9Y287](#)

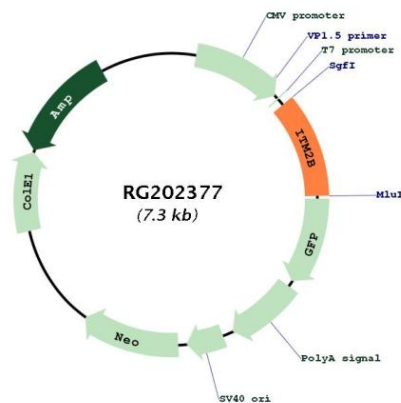
Cytogenetics: 13q14.2

Domains: BRICHOS

Protein Families: Druggable Genome, Transmembrane

Gene Summary: Amyloid precursor proteins are processed by beta-secretase and gamma-secretase to produce beta-amyloid peptides which form the characteristic plaques of Alzheimer disease. This gene encodes a transmembrane protein which is processed at the C-terminus by furin or furin-like proteases to produce a small secreted peptide which inhibits the deposition of beta-amyloid. Mutations which result in extension of the C-terminal end of the encoded protein, thereby increasing the size of the secreted peptide, are associated with two neurogenerative diseases, familial British dementia and familial Danish dementia. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RG202377