

Product datasheet for **SC108808**

ITM2B (NM_021999) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITM2B (NM_021999) Human Untagged Clone
Tag:	Tag Free
Symbol:	ITM2B
Synonyms:	ABRI; BRI; BRI2; BRICD2B; E3-16; E25B; FBD; imBRI2; RDGCA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108808 sequence for NM_021999 edited (data generated by NextGen Sequencing)

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ATGGTGAAGGTGACGTTCAACTCCGCTCTGGCCAGAAGGAGGCCAAGAAGGACGAGCCC  
AAGAGCGGCGAGGAGGCGCTCATCATCCCCCGACGCCGTCGCGGTGGACTGCAAGGAC  
CCAGATGATGTGGTACCAGTTGGCCAAAGAAGAGCCTGGTGTGGTGCATGTGCTTTGGA  
CTAGCATTATGCTTGCAGGTGTTATTCTAGGAGGAGCATACTGTACAAATATTTTGA  
CTTCAACCAGATGACGTGTACTACTGTGGAATAAAGTACATCAAAGATGATGTCATCTTA  
AATGAGCCCTCTGCAGATGCCCCAGCTGCTCTCTACCAGACAATTGAAGAAAATATTA  
ATCTTTGAAGAAGAAGAAGTTGAATTTATCAGTGTGCCTGTCCAGAGTTTGCAGATAGT  
GATCCTGCCAACATTGTTTCATGACTTTAACAAGAACTTACAGCCTATTTAGATCTTAAC  
CTGGATAAGTGCATGTGATCCCTCTGAACACTTCCATTGTTATGCCACCCAGAAACCTA  
CTGGAGTTACTTATTAACATCAAGGCTGGAACCTATTTGCCTCAGTCCTATCTGATTCAT  
GAGCACATGGTTATTAATGATCGCATTGAAAACATTGATCACCTGGGTTTCTTTATTTAT  
CGACTGTGTGATGACAAGGAACTTACAACTGCAACGCAGAGAACTATTAAAGGTATT  
CAGAAACGTGAAGCCAGCAATTGTTTCGCAATTCGGCATTTTGA AAAACAAATTTGCCGTG  
GAAACTTTAATTTGTTCTTGA
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Clone variation with respect to NM_021999.4



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_021999 unedited</p> <pre>TTGTATACGACTCACTATAGGGCGGCCGCGATTTCGGCACGAGGCCGCGCGGAGCTTCCC GAACCTCTTCAGCCGCCCGGAGCCGCTCCCGGAGCCCGGCCGTAGAGGCTGCAATCGCAG CCGGGAGCCCGCAGCCCGCGCCCGAGCCCGCCGCGCCCTTCGAGGGCGCCCGAGGCCG CGCCATGGTGAAGGTGACGTTCAACTCCGCTCTGGCCAGAAGGAGGCCAAGAAGGACGA GCCCAAGAGCGGGGAGGAGGCGCTCATCATCCCCCGACGCCGTGCGGTTGGACTGCAA GGACCCAGATGATGTGGTACCAGTTGGCCAAAGAAGAGCCTGGTGTGGTGCATGTGCTT TGGACTAGCATTTATGCTTGCAGGTGTTATTCTAGGAGGAGCATACTTGTACAAATATTT TGCACTTCAACCAGATGACGTGTACTACTGTGGAATAAAGTACATCAAAGATGATGTCAT CTTAAATGAGCCCTCTGCAGATGCCCGAGCTGCTCTACCAGACAATTGAAGAAAATAT TAAATCTTTGAAGAAGAAGAAGTTGAATTTTTAGTGTGCTGTCCAGAGTTTGCAGA TAGTGATCCTGCCAACATTGTTGATGACTTTAACAAGAACTTACAGCCTATTTAGATCT TAACCTGNATAAGTGCTNATGTGATCCCTCTGAACACTTNCATTGTTATGCCACCCAGAA ACCTACTGGGAGTACTTATTAACATCAAGGGCTGGAAACCTATTTGCCCTCAGTCCTATC TGATTCATGAGCACATGGTTATTACTGGATCGCATTGAAACATTGATCACNTGGGGTTTC TTTTATTTATCGACTGGTGTGATGACAAGGAACTTACAAACTGGCACGCANNAGAACTT T</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_021999 unedited</p> <pre>NNTTTTAGCTATGGACCCGCGGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTCT AGTTAAACAACCTTTGTGATATTTATATTCCATTGCACAGATATGGGTTATACAAATTAGT AACACAAGTTATTTCTTAAATTCAAAACATTTTCTAAAAATATTATTACAGCAGATGCCTA GGATATTAACATAAAGGTGGAATCATTCTCTAAATAGTTAAATATATTTGACTGTA AAATACTGCACATTTTAAATTAGAGGAAAATTAATGTGTGCTCAAATGCACTAACAAC TAGGTAGCAGGGCAACTAACAATAAAGTCACTGTGGTCCATTTTACGTATGCA TATATATGATTATTTCTAGATAATCCGTCTTCTTGAATGCTAATAAAACATAAAAAAT CCAGATAAATGATTTAAAGAAATGTAATTTCTTCTACTACCTAAGGTGACATGACTAT TATCTATGACTTCATACAGTTACTAATTCAAATATAAAGACACCCACTTCGAAAGAAA AAAATTTAAGGTAATGGTTCTAATTGAATTAATGAGATGAAAAGATAGTAAAGCCCTGT TTGCTACTTACATGAAAGAAGACTTTAAAAAATCACTGCACANAATGTAAGGGTGG GGTTATGCTGAGATACTAATTTCCCTCAATAATGTTTTTCTTACTGTTCAAGAACAAT TAAAGTTCCACGCATATTTGTTTTCAAATGCCGAATGCGAAACAATTGTTGGCTTTAC GTTTCTGAATAACCTTAATAGTTCTTTGCGGTGCAATTTGTAAGTTCCCCTGCCTGACCA GCNCGATAATAAAGAACCAGGTGAACAAGTTTCATGCCAACATAAAACCATGGGCCCA A</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_021999
Insert Size:	1500 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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]