

Product datasheet for **MG203529**

Itm2b (NM_008410) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itm2b (NM_008410) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Itm2b
Synonyms:	Al256040; Bri; Bri2; Bricd2b; D14Sel6; E25BMM; imBRI2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203529 representing NM_008410 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGAAGGTGACGTTCAACTCGGCGCTGGCCAGAAGGAGGCCAAGAAGGACGAGCCCAAGAGCAGCG
AGGAGGCGCTCATCGTCCCTCCGGATGCCGTGGCGGTGGATTGCAAGGACCCGGGTGACGTGGTTCCGGT
TGGACAGAGGAGAGCGTGGTGTGGTGCATGTGTTTCGGACTGGCCTTCATGCTTGCTGGCGTCATCCTC
GGAGGGCGTACCTGTACAAGTATTTGCTCTTCAGCCAGATGATGTGTACTATTGTGGACTAAAGTACA
TCAAAGATGACGTCATCCTGAACGAGCCTTCTGCGGATGCCCCAGCTGCTCGCTACCAGACAATTGAAGA
GAACATTAAGATCTTTGAGGAAGACGCAGTGGAATTCATCAGTGTGCCTGTACCAGATTTGCGGACAGC
GATCCTGCCAACATTGTGCATGACTTCAATAAGAACTCACTGCTTATTTGGACCTTAACCTGGACAAGT
GCTACGTGATTCTCTGAACACTTCCATCGTTATGCCGCCAAAAACCTGCTGGAGCTCCTTATTAACAT
TAAGGCCGGGACCTACCTGCCTCAGTCCTACCTTATCCATGAGCACATGGTGATCACCGACCGCATCGAG
AACGTGGACAACCTGGGCTTCTCATCTACCGACTGTGTACGACAAGGAGACCTACAACTGCAGCGCC
GGGAAACAATTAGAGGTATTCAGAAGCGGGAAGCCAGTAACTGTTTCACCATTGGCATTGAGAACAA
ATTTGCTGTGGAGACTTTAATTTGTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG203529 representing NM_008410
 Red=Cloning site Green=Tags(s)

MVKVTFNSALAQKEAKKDEPKSSEEALIVPPDAVAVDCKDPGDVVPVQRRRAWCWCFCGLAFMLAGVIL
 GGAYLYKYFALQPDDVYYCGLKYIKDDVILNEPSADAPAARYQTIEENIKIFEEDAVEFISVPVPEFADS
 DPANIVHDFNKKLTAYLDLNLDKCYVIPLNTSIVMPKLNLELLINIKAGTYLPQSYLIHEHMVITDRIE
 NVDNLGFFIYRLCHDKETYKLRRETIRGIQKREASNCF TIRHFENKFAVETLICS

TRTRPLE - GFP Tag - V

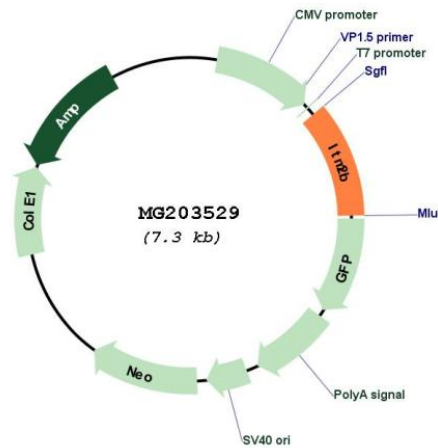
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_008410

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:	<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_008410.2 , NP_032436.1
RefSeq Size:	1773 bp
RefSeq ORF:	801 bp
Locus ID:	16432
UniProt ID:	O89051
Cytogenetics:	14 38.88 cM
Gene Summary:	Plays a regulatory role in the processing of the amyloid-beta A4 precursor protein (APP) and acts as an inhibitor of the amyloid-beta peptide aggregation and fibrils deposition. Plays a role in the induction of neurite outgrowth. Functions as a protease inhibitor by blocking access of secretases to APP cleavage sites (By similarity).[UniProtKB/Swiss-Prot Function]