

Product datasheet for MR203529

Itm2b (NM_008410) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itm2b (NM_008410) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itm2b
Synonyms:	AI256040; Bri; Bri2; Bricd2b; D14Sel6; E25BMM; imBRI2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203529 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGAAGGTGACGTTCAACTCGGCGCTGGCCAGAAGGAGGCCAAGAAGGACGAGCCCAAGAGCAGCG
AGGAGGCGCTCATCGTCCCTCCGGATGCCGTGGCGGTGGATTGCAAGGACCCGGGTGACGTGGTTCCGGT
TGGACAGAGGAGAGCGTGGTGGTGCATGTGTTTCGGACTGGCCTTCATGCTTGCTGGCGTCATCCTC
GGAGGGCGTACCTGTACAAGTATTTGCTCTTCAGCCAGATGATGTGTACTATTGTGGACTAAAGTACA
TCAAAGATGACGTCATCCTGAACGAGCCTTCTGCGGATGCCCCAGCTGCTCGCTACCAGACAATTGAAGA
GAACATTAAGATCTTTGAGGAAGACGCAGTGGAATTCATCAGTGTGCCTGTACCAGATTTGCGGACAGC
GATCCTGCCAACATTGTGCATGACTTCAATAAGAACTCACTGCTTATTTGGACCTTAACCTGGACAAGT
GCTACGTGATTCTCTGAACACTTCCATCGTTATGCCGCCAAAAACCTGCTGGAGCTCCTTATTAACAT
TAAGGCCGGGACCTACCTGCCTCAGTCCTACCTTATCCATGAGCACATGGTGATCACCGACCGCATCGAG
AACGTGGACAACCTGGGCTTCTCATCTACCGACTGTGTACGACAAGGAGACCTACAACTGCAGCGCC
GGGAAACAATTAGAGGTATTCAGAAGCGGAAGCCAGTAACTGTTTCACCATTGGCATTGAGAACAA
ATTTGCTGTGGAGACTTAAATTTGTTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203529 protein sequence
 Red=Cloning site Green=Tags(s)

MVKVTFNSALAQKEAKKDEPKSSEEALIVPPDAVAVDCKDPGDVVPVQRRRAWCWCFCGLAFMLAGVIL
 GGAYLYKYFALQPDDVYYCGLKYIKDDVILNEPSADAPAARYQTIEENIKIFEEDAVEFISVPVPEFADS
 DPANIVHDFNKKLTAYLDLNLDKCYVIPLNTSIVMPPKNLLELLINIKAGTYLPQSYLIHEHMVITDRIE
 NVDNLGFFIYRLCHDKETYKLRRETIRGIQKREASNCFTIRHFENKFAVETLIC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008410

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).

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_008410.1](#), [NM_008410.2](#), [NP_032436.1](#)

RefSeq Size: 1773 bp

RefSeq ORF: 801 bp

Locus ID: 16432

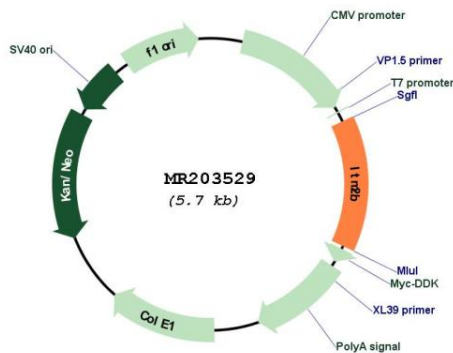
UniProt ID: [O89051](#)

Cytogenetics: 14 38.88 cM

MW: 30.3 kDa

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]

Product images:



Circular map for MR203529