

Product datasheet for **RG208057**

ITM2A (NM_004867) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITM2A (NM_004867) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ITM2A
Synonyms:	BRICD2A; E25A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208057 representing NM_004867 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGAAAATCGCCTTCAATACCCCTACCGCCGTGCAAAGGAGGAGGCGCGGCAAGACGTGGAGGCC
TCCTGAGCCGCACGGTCAGAACTCAGATACTGACCGGCAAGGAGCTCCGAGTTGCCACCCAGGAAAAAGA
GGGCTCCTCTGGGAGATGTATGCTTACTCTTAGGCCTTCATTCATCTTGGCAGGACTTATTGTTGGT
GGAGCCTGCATTTACAAGTACTCATGCCCAAGAGCACCATTTACCGTGGAGAGATGTGCTTTTTGATT
CTGAGGATCCTGCAAATCCCTTCGTGGAGGAGAGCCTAACTTCCTGCCTGTGACTGAGGAGGCTGACAT
TCGTGAGGATGACAACATTGCAATCATTGATGTGCCTGTCCCCAGTTTCTCTGATAGTGACCCTGCAGCA
ATTATTATGACTTTGAAAAGGGAATGACTGCTTACCTGGACTTGTGCTGGGAACTGCTATCTGATGC
CCCTCAATACTTCTATTGTTATGCCTCCAAAAATCTGGTAGAGCTCTTTGGCAAACCTGGCGAGTGGCAG
ATATCTGCCTCAAACCTTATGTGGTTCGAGAAGACCTAGTTGCTGTGGAGGAAATTCGTGATGTTAGTAAC
CTTGGCATCTTTATTTACCAACTTTGCAATAACAGAAAGTCTTCCGCCTTCGTCGCAGAGACCTTTGC
TGGGTTTCAACAAACGTGCCATTGATAAATGCTGGAAGATTAGACACTTCCCAACGAATTTATTGTTGA
GACCAAGATCTGTCAAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208057 representing NM_004867
 Red=Cloning site Green=Tags(s)

MVKIAFNTPTAVQKKEARQDVEALLSRTVRTQILTGKELRVATQEKEGSSGRCLTLLGLSFILAGLIVG
 GACIYKYFMPKSTIYRGEMCFDSEDPANSLRGGEPNLPVTEEADIREDDNIAIIDVPVPSFSDSDPAA
 IIHDFEKGMTAYLDLLLGNCYLMPLNTSIVMPPKNLVELFGKLASGRYLPQTYVVREDLVAVEEIRDVSN
 LGIFIIYQLCNNRKSFRLLRRRDLLLGFNKRAIDKCWKIRHFPNEFIVETKICQE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004867

ORF Size: 789 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_004867.5](#)

RefSeq Size: 1874 bp

RefSeq ORF: 792 bp

Locus ID: 9452

UniProt ID: [O43736](#)

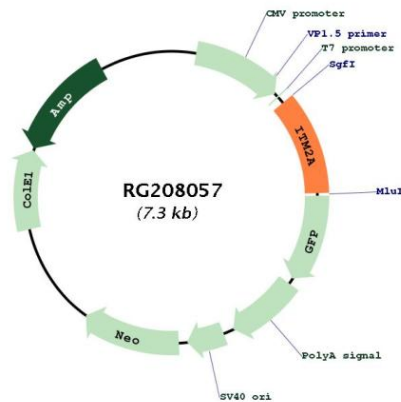
Cytogenetics: Xq21.1

Domains: BRICHOS

Protein Families: Transmembrane

Gene Summary: This gene encodes a type II membrane protein that belongs to the ITM2 family. Studies in mouse suggest that it may be involved in osteo- and chondrogenic differentiation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2010]

Product images:



Circular map for RG208057