

Product datasheet for **RG229712**

ITM2A (NM_001171581) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITM2A (NM_001171581) 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:	>RG229712 representing NM_001171581 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGAAAATCGCCTTCAATACCCCTACCGCCGTGCAAAGGAGGAGGCGCGGCAAGACGTGGAGGCC
TCCTGAGCCGCACGGTCAGAACTCAGATACTGACCGGCAAGAGCACCATTTACCGTGGAGAGATGTGCTT
TTTTGATTCTGAGGATCCTGCAAATCCCTTCGTGGAGGAGAGCCTAACTTCCTGCCTGTGACTGAGGAG
GCTGACATTCGTGAGGATGACAACATTGCAATCATTGATGTGCCTGTCCCAGTTTCTCTGATAGTGACC
CTGCAGCAATTATTCATGACTTTGAAAAGGGAATGACTGCTTACCTGGACTTGTTGCTGGGAACTGCTA
TCTGATGCCCTCAATACTTCTATTGTTATGCCTCCAAAAAATCTGGTAGAGCTCTTGGCAAACCTGGCG
AGTGCCAGATATCTGCCTCAAACCTATGTGTTTCGAGAAGACCTAGTTGCTGTGGAGGAAATTCGTGATG
TTAGTAACCTTGGCATCTTTATTTACCAACTTTGCAATAACAGAAAGTCCTTCCGCCTTCGTGCGAGAGA
CCTCTTGCTGGGTTTCAACAAACGTGCCATTGATAAATGCTGGAAGATTAGACACTTCCCAACGAATTT
ATTGTTGAGACCAAGATCTGTCAAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229712 representing NM_001171581
Red=Cloning site Green=Tags(s)

MVKIAFNTPTAVQKKEARQDVEALLSRTVRTQILTGKSTIYRGEMCFDSEDPANSLRGGEPNFLPVTEE
 ADIREDDNIAIIDVPVPSFSDSDPAIIHDFEKGMTAYLDLLLGNCYLMPLNTSIVMPPKNLVELFGKLA
 SGRYLPQTYVREDLVAVEEIRDVSNLGIPIYQLCNRKSFRLRRRDLGLGNKRAIDKCKWIRHFPNEF
 IVETKICQE

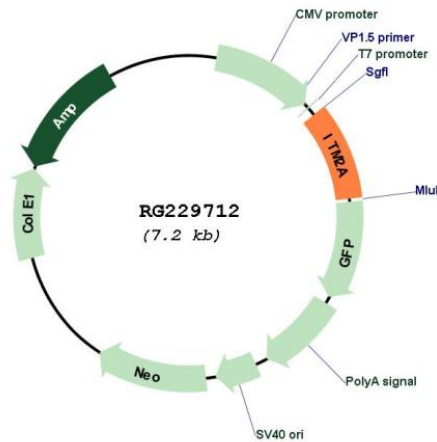
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001171581

ORF Size: 657 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_001171581.1 , NP_001165052.1
RefSeq Size:	1719 bp
RefSeq ORF:	660 bp
Locus ID:	9452
UniProt ID:	O43736
Cytogenetics:	Xq21.1
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]