

Product datasheet for **SC328350**

ITM2A (NM_001171581) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITM2A (NM_001171581) Human Untagged Clone
Tag:	Tag Free
Symbol:	ITM2A
Synonyms:	BRICD2A; E25A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328350 representing NM_001171581. Blue=Insert sequence Red=Cloning site Green=Tag(s)

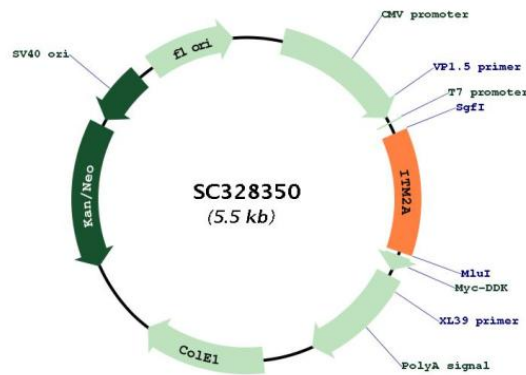
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CTCCTGAGCCGCACGGTCAGAACTCAGATACTGACCGCAAGAGCACCATTTACCGTGGAGAGATGTGC
TTTTTTGATTCTGAGGATCCTGCAAATTCCTTCGTGGAGGAGAGCCTAACTTCTGCCTGTGACTGAG
GAGGCTGACATTCGTGAGGATGACAACATTGCAATCATTGATGTGCCTGTCCCCAGTTTCTCTGATAGT
GACCCTGCAGCAATTATTCATGACTTTGAAAAGGGAATGACTGCTTACCTGGACTTGTGCTGGGGAAC
TGCTATCTGATGCCCTCAATACTTCTATTGTTATGCCTCAAAAAATCTGGTAGAGCTTTGGCAAA
CTGGCGAGTGGCAGATATCTGCCTCAAACCTATGTGGTTTCGAGAAGACCTAGTTGCTGTGGAGGAAAT
CGTGATGTTAGTAACCTTGGCATCTTTATTTACCAACTTTGCAATAACAGAAAGTCTTCCGCCTTCGT
CGCAGAGACCTCTTGCTGGGTTTCAACAAACGTGCCATTGATAAATGCTGGAAGATTAGACACTTCCCC
AACGAATTTATTGTTGAGACCAAGATCTGTCAAGAGTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001171581

Insert Size: 660 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001171581.1](#)

RefSeq Size: 1719 bp

RefSeq ORF: 660 bp

Locus ID: 9452

UniProt ID: [O43736](#)

Cytogenetics: Xq21.1

Protein Families: Transmembrane

MW: 25 kDa

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]
Transcript Variant: This variant (2) is missing an in-frame coding exon compared to variant 1, resulting in a shorter isoform (2) lacking a 44 aa protein segment compared to isoform 1.