

Product datasheet for **RC229090**

TIMM8B (NM_012459) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TIMM8B (NM_012459) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TIMM8B
Synonyms: DDP2; TIM8B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC229090 representing NM_012459
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

**ATGCGCAAACACAGCTGTCGGAAGGTGGCGAGCCTGAGGCGAACAATGGCGGAGCTGGGCGAAGCCGATG
AAGCGGAGTTGCAGCGCCTGGTGGCCGCCGAGCAGCAGAAGGCGCAGTTTACTGCACAGGTGCATCACTT
CATGGAGTTATGTTGGGATAAATGTGTGGAGAAGCCAGGAATCGCCTAGACTCTCGACTGAAAATTGT
CTCTCCAGCTGTGTAGACCGCTTATTGACACCCTCTTGCCATCACCAGTCGGTTGCCAGATTGTAC
AGAAAGGAGGGCAG**

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >RC229090 representing NM_012459
Red=Cloning site Green=Tags(s)

MRKHSCRKVASLRRTMAELGEADEAELQRLVAAEQQAQFTAQVHHFMELCWDKCEKPGNRLDSRTENC
LSSCVDRFIDTTLAITSRFAQIVQKGGQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8035_f11.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_012459

ORF Size: 294 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_012459.2](#), [NP_036591.2](#)

RefSeq ORF: 252 bp

Locus ID: 26521

UniProt ID: [Q9Y5J9](#)

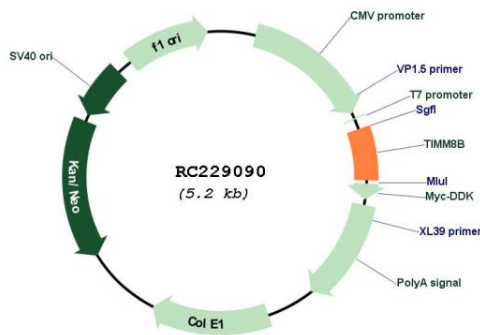
Cytogenetics: 11q23.1

Domains: zf-Tim10_DDP

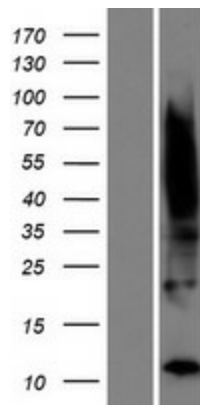
MW: 11 kDa

Gene Summary: This gene encodes a member of a well-conserved family of proteins with similarity to yeast Tim mitochondrial import proteins. This gene is encoded by a nuclear gene and is transported into the intermembrane space of the mitochondrion. When formed into complexes, these proteins guide membrane-spanning proteins across the mitochondrial intermembrane space before they are added into the mitochondrial inner membrane. This gene is adjacent to succinate dehydrogenase, subunit D (SDHD), in which mutations have been found in affected members of families with hereditary paraganglioma.[provided by RefSeq, Aug 2009]

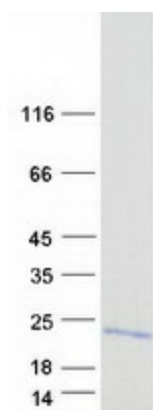
Product images:



Circular map for RC229090



Western blot validation of overexpression lysate (Cat# [LY432116]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229090 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TIMM8B protein (Cat# [TP329090]). The protein was produced from HEK293T cells transfected with TIMM8B cDNA clone (Cat# RC229090) using MegaTran 2.0 (Cat# [TT210002]).