

Product datasheet for **RC205097**

Thymosin beta 10 (TMSB10) (NM_021103) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thymosin beta 10 (TMSB10) (NM_021103) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Thymosin beta 10
Synonyms:	MIG12; TB10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205097 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC CGATCGCC ATGGCAGACAAACCAGACATGGGGGAAATCGCCAGCTTCGATAAGGCCAAGCTGAAGAAAACGGAGACGC AGGAGAAGAACACCCTGCCGACCAAGAGACCATTGAGCAGGAGAAGCGGAGTGAATTTCC ACGGT ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC205097 protein sequence Red=Cloning site Green=Tags(s) MADKPDMEIASFDKAKLKKTTETQEKNLPTKETIEQEKRSEIS TR TRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6061_h03.zip
Restriction Sites:	Sgfl-MluI



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Cloning Scheme:


ACCN: NM_021103

ORF Size: 132 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.

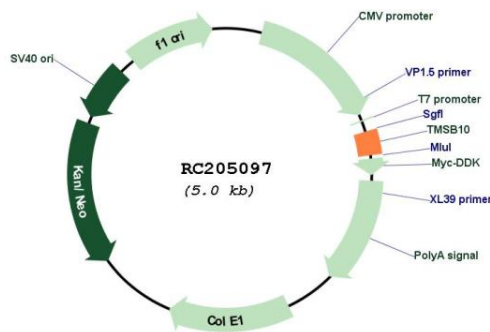
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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.

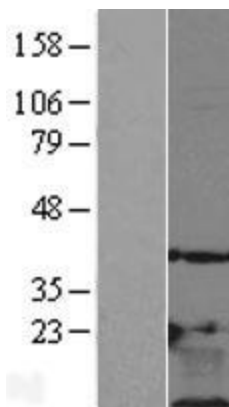
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq:	NM_021103.4
RefSeq Size:	482 bp
RefSeq ORF:	135 bp
Locus ID:	9168
UniProt ID:	P63313
Cytogenetics:	2p11.2
MW:	5 kDa
Gene Summary:	Plays an important role in the organization of the cytoskeleton. Binds to and sequesters actin monomers (G actin) and therefore inhibits actin polymerization (By similarity). [UniProtKB/Swiss-Prot Function]

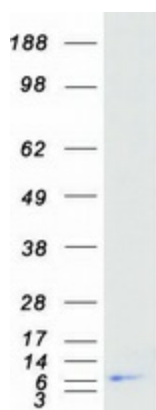
Product images:



Circular map for RC205097



Western blot validation of overexpression lysate (Cat# [LY402833]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205097 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TMSB10 protein (Cat# [TP305097]). The protein was produced from HEK293T cells transfected with TMSB10 cDNA clone (Cat# RC205097) using MegaTran 2.0 (Cat# [TT210002]).