

Product datasheet for **MR219213**

Thbs4 (NM_011582) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thbs4 (NM_011582) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Thbs4
Synonyms:	TSP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR219213 representing NM_011582
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGCCCCACGCGCGCCGCGGCCCTTCTCCTGCTGCACCTGGTCTGCAGCCGTGGCAGCGGA
 CGAGCGCCAGGCCACACCCAGGTCTTTGATCTTCTACCGTCCAGCCAGAGGCTGAACCCAGCGC
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AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
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Protein Sequence: >MR219213 representing NM_011582
 Red=Cloning site Green=Tags(s)

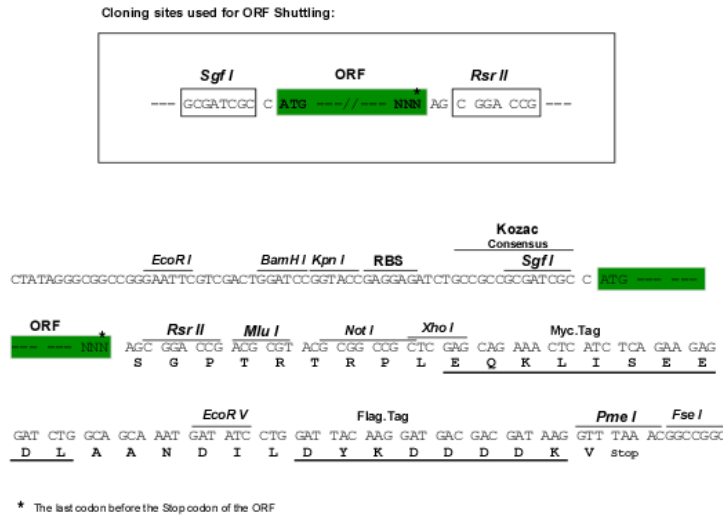
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 RCDACPVGFTGPMVQGVGINFAKTNKQVCTDVDECQNGACVLSNICINTLGSYRCGPKPGYTGQDTRGC
 KTERSCRNPEQNPCSVHAQCIERQGDVTCVCGVWAGDGYVCGKDVDIDSYPDEELPCSARNCKDNCK
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 QDSDGDGHQDSTNCPVINSSQLDTDKDGIGDECDDDDDNDGIPDLVPPGPDNCRLVPNPAQEDSNNDG
 VGDICEADFDQDQVIDHIDVCPENAEITLTDFFRAYQTVVLDPGEAQIDPNWVVLNQGMEIVQTMNSDPG
 LAVGYTAFNGVDFEGTFHVNTQTDDDYAGFIFGYQDSSSFYVVMWKQTEQTYWQATPFRAVAEPIQLKA
 VKSKTGPGEHLRNSLWHTGDTSDQVRLWKDSRNVGWKDKVSYRWFLQHRPQVGYIRVRFYEGSELVADS
 GVTIDTMRGRLGVFCFSQENI IWSNLKYRCNDTIPEDFQEFQTQSFDRLDN

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



ACCN: NM_011582

ORF Size: 2889 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_011582.3](#), [NP_035712.1](#)

RefSeq Size: 3202 bp

RefSeq ORF: 2892 bp

Locus ID: 21828

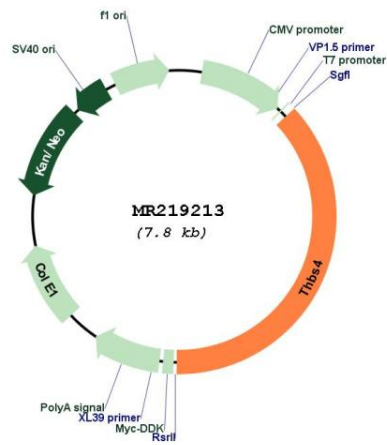
UniProt ID: [Q9Z1T2](#)

Cytogenetics: 13 47.75 cM

MW: 106.4 kDa

Gene Summary:

Adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions and is involved in various processes including cellular proliferation, migration, adhesion and attachment, inflammatory response to CNS injury, regulation of vascular inflammation and adaptive responses of the heart to pressure overload and in myocardial function and remodeling. Binds to structural extracellular matrix (ECM) proteins and modulates the ECM in response to tissue damage, contributing to cardioprotective and adaptive ECM remodeling. Plays a role in ER stress response, via its interaction with the activating transcription factor 6 alpha (ATF6) which produces adaptive ER stress response factors and protects myocardium from pressure overload. May contribute to spinal presynaptic hypersensitivity and neuropathic pain states after peripheral nerve injury. May play a role in regulating protective astrogenesis from the subventricular zone (SVZ) niche after injury in a NOTCH1-dependent manner. [UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR219213