

Product datasheet for **MG211744**

Thbs1 (NM_011580) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Thbs1 (NM_011580) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Thbs1
Synonyms: tbs; tbsp1; Thbs-; Thbs-1; TS; TSP; TSP-1; TSP1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG211744 representing NM_011580
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCTCCTGCGGGGACTAGGTGTCCTGTTCTGTTGCATATGTGTGGAAGCAACCGCATTCCAGAGT
 CTGGGGGAGATAACGGTGTGTTTGACATCTTTGAACTCATTGGAGGTGCACGAAGGGGCCCGTCGCCG
 ACTGGTGAAGGGCCAAGATCTATCCAGCCCCGCTTCCGCATTGAGAATGCCAACCTGATCCCCGCTGTG
 CCGGATGACAAGTTCCAAGACCTACTGGACGCTGTGTGGGCCGACAAAGGCTTCATCTTCTGGCTTCT
 TGAGGCAGATGAAGAAGACCCGGGCACACTCCTGGCTGTGGAACGAAAGACAACACTGGCCAGATCTT
 CAGTGTGGTCTCCAACGGCAAAGCTGGCACCTGGACCTGAGCCTGAGCCTGCCAGGGAAGCAACAAGT
 GTGTCAGTGGAGGAAGCTCTCCTGGCCACTGGCCAGTGAAGAGCATCACGCTGTTTGTCAAGAGGACC
 GGGCTCAACTCTACATAGACTGTGATAAGATGGAGAGCGCGGAGCTGGATGTACCCATCCAGAGCATCTT
 CACCAGGGATCTGGCCAGCGTTGCCAGGCTCCGAGTTGCAAAGGGAGATGTCAATGACAATTTTCAGGGG
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 GCTCAGTACCAACGTCCTTCTTACCCTTGACAACAACGTGGTGAACGGTCCAGCCCTGCTATCCGCAC
 CAACTACATCGGCCACAAAACAAAGGACCTCCAAGCTATCTGTGGCCTCTCCTGTGATGAACATCCAGC
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CCAATTAATGGAGGCTGGGGTCCCTGGTCACCATGGGACATCTGCTCTGTACCTGTGGAGGAGGAGTGC
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

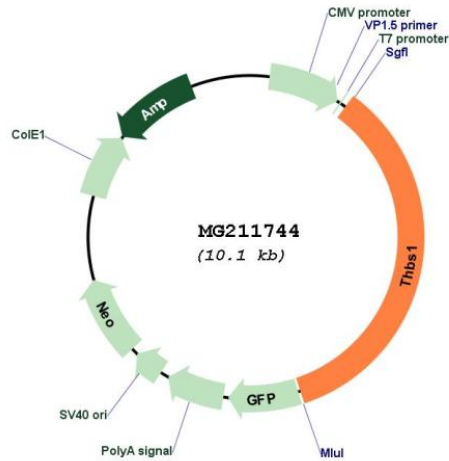
Protein Sequence: >MG211744 representing NM_011580
 Red=Cloning site Green=Tags(s)

MELLRGLGVLFLHMCNRPESGGDNGVDFIFELIGGARRGPGRRLVKGQDLSSPAFRIENANLIPAV
 PDDKFQDLLDAVWADKGFIFLASLRQMKKTRGTL LAVERKDNTGQIFSVVSNKGAGTLDL SLSLPGKQQV
 VSVEEALLATGQWKSITL FVQEDRAQLYIDCDKME SAELDVPIQSIFTRDLASVARLRVAKGDVNDNFQ
 VLQNVRFVFGTTPEDILRNKGCSSSATNVLL TLDNNVVGSSPAIRTNYIGHKTKDLQAICGLSDELS
 MYLELKLRTIVTTLQDSIRKVTEENRELVSELKRPLCFHNGVQYKNNEEWTVDSCTECHCQNSVTICK
 KVSCPI MPCSNATVPDGECCPRCWP SDSADDG WSPWSEW TSCSATCGNGIQQRGRSCDSLNNRCEGSSVQ
 TRTCHI QECDKRFKQDGGW SHWSPWSSCVTCGDGVITRIRL CNPSPQMNGKPCGEARETKACKKDAC
 PINGGWGPWSPWDICSVTCGGVQRRSRLC NNPTPQFGGKDCVGDVTENQVCNKQDCPIDGCLSNPCFAG
 AKCTSY PDG SWKCGACPPGYSNGIQCKDVDECKEVPDACFNHNGEHRCKNTDPGYNCLPCPPRFTGSQP
 FGRGVEHAMANKQVCKPRNPCTDGT HDCNKNACNYLGHYSDPMYRCECKPGYAGNGIICGEDTDLGWP
 NENLVCVANATYHCKKDNCNLPNSGQEDYDKDGI GDACDDDDNDKIPDDRDNCPFHYNPAQYDYDRDD
 VGDRCDNCPYHNPDQADTDKNGEGDACAVIDGDGILNERDNCQYVYNVDQRDTMDMGVGDQCDNCPLE
 HNPDLQDSDSLIGDTCDNNQDIDEDGHQNNLDNCPYVPANQADHDKDGKGDACDHDDNDGIPDDRDN
 CRLVPNPQDKSDSDGDRGDAKDDFDHNDVPDIDDICPENFDISETDFRQFMIP LDPKGT SQNDPNWV
 RHQGKELVQTVNCDPGLAVGYDEFNAVDFSGTFF INTERDDDYAGFVFGYQSSSRFYVVMWKVQTQSYWD
 TNPTRAQYSGLSVKVNSTTGPGEHLRNALWHTGNTPGQVRTLWHDPRHIGWKDFATAYRWL SHRPKTG
 YIRVVMYEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDMKYECRDS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI
Cloning Scheme:



Plasmid Map:


ACCN: NM_011580

ORF Size: 3513 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_011580.4](#)

RefSeq Size: 5802 bp

RefSeq ORF: 3516 bp

Locus ID: 21825

Cytogenetics: 2 59.34 cM

Gene Summary: The protein encoded by this gene is a subunit of a disulfide-linked homotrimeric protein. This protein is an adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions. This protein can bind to fibrinogen, fibronectin, laminin, type V collagen and integrins alpha-V/beta-1. This protein has been shown to play roles in platelet aggregation, angiogenesis, and tumorigenesis. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015]