

Product datasheet for **MC222870**

Thbs4 (NM_011582) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC222870 representing NM_011582
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGCCCCACGCGCGCCGCGGCCCTTCTCCTGCTGCACCTGGTCTGCAGCCGTGGCAGCGGA
 CGAGCGCCAGGCCACACCCAGGTCTTTGATCTTCTACCGTCCAGCCAGAGGCTGAACCCAGCGC
 CCTGCAGCCAGTCTGACAGATCCCACCTGCACGAAGTCTATCTCATCTCCACCTTCAAGCTGCAGAGT
 AAAAGCTCAGCCACCATCTTTGGCCTCTACTCCTCAAGTGACAACAGCAAATACTTTGAATTCAGTGTGA
 TGGGACGGCTGAACAAAGCCATCCTCCGCTACCTGAAGAATGATGGAAAGATCCATCTGGTGGTGTCAA
 CAACTTGCAGCTGGCTGATGGGAGGCGCCACAGGGTCTCCTGAGACTGAGCAATTTGCAGAGAGGAGAT
 GGCTCTGTAGAACTCTACCTGGACTGCGCTCAGGCGGACTCGGTGCGCAACCTCCCAGAGCCTTTTCTG
 GCCTCACCCAGAACCAGAGTCCATTGAATTGCGGACATTCCAGAGGAAGCCCCAGGACTTCTTGAAGA
 GCTGAAGCTGGTGGTGGCGGGCTCGCTGTTCCAGGTGGCCAGCCTCCAAGACTGCTTCTGCAGCAGAGT
 GAGCCTCTGGCTGCCACAAGCACAGGAGACTTTAATCGACAGTCTTGGGTCAAATGACACAACCTGAACC
 AGCTCCTTGGAGAGGTGAAAGATCTTCTGAGGCAGCAGGTCAAGGAAACATCGTTTTTGCGAAACACCAT
 TGCTGAATGCCAAGCTTGTGGTCTCTCAGCTTTCAGTCCCCAACTCAAACACACTGGTGCCCATAGCT
 CCTCCAGCACCCCAACTCGCCCAACACGCCACTGTGACTCCAGCCCTGTTTCCGAGGTGTCCGATGTA
 CGGACACCAGGGATGGCTTCCAGTGTGGACCCTGCCAGATGGTTACACGGGAAACGGGATCACCTGCTC
 TGACGTGGATGAGTCAAATACCATCCCTGCTATCCAGGTGTGCGCTGTGTGAATTTGGCTCCGGTTTC
 AGATGTGACGCCTGTCCAGTAGTTCACAGGGCCCATGGTGCAGGGTGTGGGATCAACTTTGCTAAAA
 CAAACAAGCAGGTGTGCACTGATGTTGATGAGTGCAGATGAGAGCGTGTGTTCTGAATTCATATGTCAT
 TAACACTTTGGGATCTTATCGCTGTGGGCTTGAACCAAGGGTACACTGGTGTACAGCAGGGGATGC
 AAGACTGAAAGGAGCTGCCGGAACCCAGAGCAGAACCCATGCAGTGTGCATGCGCAGTGCATTGAGGAGC
 GGCAAGGGGATGTGACGTGTGTGTGGTGTGGCTGGGCTGGTACGCGCTATGTCTGTGAAAGGATGT
 GGACATTGACAGTTACCCTGATGAAGAAGTCCATGCTCTGCCAGGAAGTGAAGAAGGATAACTGCAAG
 TATGTGCCAAACTCTGGCCAGGAAGATGCAGACAGAGATGGCATCGGAGACGCGTGTGATGAGGATGCAG
 ATGGAGATGGGATCTTGAATGAACAGGACAACCTGTGCTCCTGACTCACAATATAGACCAAAGGAACAGTGA
 TAAAGATATCTTTGGGATGCCTGTGACAACCTGCCGGATGGTCTCCTGAATAATGACCAGAAGGATACTGAC
 GGGGATGGGAGAGGAGACGCCTGTGATGACGACATGGATGGAGATGGAATAAAAAACATTTTGGACAAC
 GTCCCAGAGTTCCCAACCGTGACCAGCAGGATCGGGATGGTGTGATGTGCGGAGATGCTTGTGACAGCTG
 TCCTGATGTGAGTAAACCCTAACCCAGTCCGGATGTGGATAACGATCTGGTTGGGGACTCCTGTGACACCAAC
 CAAGACAGTGACGGGGATGGCCACCAGGACAGCACAGACAACCTGCCCCACAGTCAATTAACAGCTCCCAGC
 TGGACTGACAAAGATGGGATCGGCGATGAATGTGATGACGATGACGATAACGATGGCATCCCAGACCT
 GGTGCCTCCTGGCCCAGACAACCTGCAGGCTCGTCCCCAACCCAGCCAGGAAGATAGCAACAATGACGGG
 GTAGGAGATATCTGTGAAGCTGACTTCGACCAGGACCAGGTGATCGATCACATTGATGTGTGCCCTGAGA
 ATGCGGAGATCACCTGACTGACTTCAGGGCCTACCAGACAGTGGTCTGGACCCTGAAGGGGATGCTCA
 GATCGACCCCAACTGGGTGGTCTGTAACAGGGCATGGAATTTGTGCAGACCATGAACAGTGAACCTGGC
 CTAGCTGTTGGGTACACGGCATTAAACGGAGTTGACTTTGAAGGGACCTTCCACGTAACACCCAGACAG
 ATGATGACTATGCTGGCTTTATTTTTGGTTACCAAGACAGCTCCAGCTTCTATGTAGTATGTGGAAGCA
 AACGGAGCAGACATACTGGCAGGCTACACCGTTCCGTGCAGTAGCAGAACCTGGTATTACGCTCAAGGCT
 GTGAAGTCTAAAACCTGGCCAGGGGAACATCTCCGAAACTCCCTGTGGCACACAGGGGACACCAGCGACC
 AGGTGAGGCTGCTGTGGAAGGACTCCAGGAATGTGGGCTGGAAGGACAAGGTCTCCTACCCTGGTTCT
 GCAGCATAGGCCCCAGGTGGGCTACATCAGGGTGGCCTTTATGAAGGCTCGGAGTTGGTGGCTGACTCT
 GGGGTCAACATAGACACCACCATGCGTGGAGGCCGACTTGGTGTGTTCTGCTTCTCAAGAAAACATCA
 TCTGGTCAACCTCAAGTACCGCTGCAACGACACCATACCAGAGGACTTCCAGGAGTTCCAGACCCAGAG
 TTTTCGACCGCTTGGATAAT**TGA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-RsrII
ACCN:	NM_011582
Insert Size:	2892 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).
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:	<ol style="list-style-type: none">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
Gene Summary:	<p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p>