

Product datasheet for **RG214802**

Thrombospondin 1 (THBS1) (NM_003246) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thrombospondin 1 (THBS1) (NM_003246) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Thrombospondin 1
Synonyms:	THBS; THBS-1; TSP; TSP-1; TSP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214802 representing NM_003246 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCTGGCCTGGGGACTAGGCGTCCTGTTCTGATGCATGTGTGGCACCACCGCATTCCAGAGT
CTGGCGGAGACAACAGCGTGTGGACATCTTTGAACTCACCGGGCCGCCGCAAGGGGTCTGGGCGCC
ACTGGTGAAGGGCCCGACCCCTCCAGCCAGCTTTCCGCATCGAGGATGCCAACCTGATCCCCCTGTG
CCTGATGACAAGTTCCAAGACCTGGTGGATGCTGTGCGGGCAGAAAAGGGTTTCTCTCTGGCATCCC
TGAGGCAGATGAAGAAGACCCGGGGCAGCTGCTGGCCCTGGAGCGGAAAGACCCTCTGGCCAGGTCTT
CAGCGTGGTGTCCAATGGCAAGGCGGGCACCCCTGGACCTCAGCCTGACCGTCCAAGGAAAGCAGCAGTG
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CTACATTGGCCACAAGACAAGGACTTGCAAGCCATCTGCGGCATCTCCTGTGATGAGCTGTCCAGCATG
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CCAGATGAACGGAAACCCTGTGAAGGCGAAGCGGGAGACCAAGCCTGCAAGAAAGACGCTGCC



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ATCAATGGAGGCTGGGGTCTTGGTCACCATGGGACATCTGTTCTGTCACCTGTGGAGGAGGGGTACAGA
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CTGGTGGTAGACTAGGGTTGTTGTCTTCTCTCAAGAAATGGTGTCTTCTCTGACCTGAAATACGAATG
TAGAGATCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214802 representing NM_003246
 Red=Cloning site Green=Tags(s)

MGLAWGLGVLFLMHVCGTNRIPESGGDNSVFDIFELTGAARKGSGRRLVKGPDPSSPAFRIEDANLIPPV
 PDDKFQDLVDAVRAEKGFLLASLRQMKTGRGTLALERKDHSGQVF SVV SNGKAGTLDL SLTVQKQHV
 VSVEEALLATGQWKSITL FVQEDRAQL YIDCEK MENAELDVPIQSVFTRDLASIA RLRIAKGGVNDNFQG
 VLQNVRFVFGTTPEDILRNKGCSSTSVLLTLDNNVNGSSPAIRTNYIGHKTKDLQAICGISDELSSM
 VLELRGLRTIVTTLQDSIRKVTEENKELANELRRPPLCYHNGVQYRNNEEWTVDSCTECHQNSVTICKK
 VSCPIMP CSNATVPDGECCPRCWPSPSDSADDG WSPSEWTSCSTSCNGIQQRGRSCDSLNNRCEGSSVQT
 RTCHIQC DKRFKQDGGW SHWSPWSSCSVT CGDGVITRIRL CNSPSPQMNGKPCGEARETKACKKDACP
 INGGWGPWSPWDICSVTCGGGVQKRSRLC NNPTPQFGGKDCVGDVTENQICNKQDCPIDGCLSNPCFAGV
 KCTSYPDG SWKCGACPPGYSGNGIQCTD VDECKEVPDACFNHNGEHRCENTDPGYNCLPCPPRFTGSQPF
 GGQVEHATANKQVCKPRNPCTD GTHDCNKNAKCN YLGHYSDPMYRCECKPGYAGNGIICGEDTLDGWPN
 ENLVCVANATYHCKKDNCPNL P NSGQEDYDKDGI GDACDDDDNDKIPDDRDNCFHYNPAQYDYDRDDV
 GDRCDCNCPYHNPDQADTDNNGEGDACAADIDG DGI LNERDNCQYVYNVDQRDTMDMGVGDQCDNCPLEH
 NPDQLDSDSDRIGDTC DNNQDIDEDGHQNNL D NCPYVNPANQADHDKDGGKGDACD HDDNDGIPDDKDNC
 RLVPNDQKDSGDGRGDACKDDFDHDSVPDIDD IC PENVDISETDFRRFQMIPLDPKGT SQNDPNWVVR
 HQKELVQTVNCDPGLAVGYDEFNAVDFSGTFF INTERDDDYAGFVFGYQSSSRFYVMMWKQVTQSYWDT
 NPTRAQGYSGLSVKVNSTTGPGEHLRNALWHTGNTPGQVRTLWHDPRHIGWKDF TAYRWRLSHRPKTGF
 IRVVMYEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECRDP

TRTRPLE - GFP Tag - V

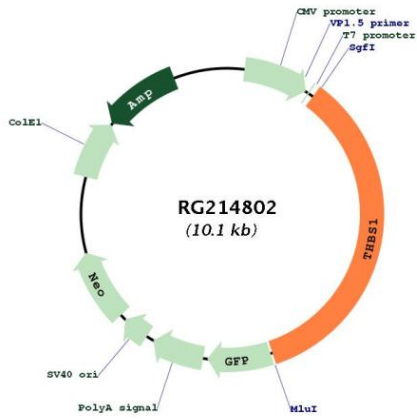
Restriction Sites: SgfI-MluI
Cloning Scheme:



ACCN: NM_003246
ORF Size: 3510 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:	<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_003246.4
RefSeq Size:	5820 bp
RefSeq ORF:	3513 bp
Locus ID:	7057
UniProt ID:	P07996
Cytogenetics:	15q14
Domains:	tsp_1, VWC, EGF_CA, TSPN, tsp_3, EGF, EGF
Protein Families:	Druggable Genome
Protein Pathways:	Bladder cancer, ECM-receptor interaction, Focal adhesion, p53 signaling pathway, TGF-beta signaling pathway
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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG214802