

## Product datasheet for **SC118074**

### Thrombospondin 1 (THBS1) (NM\_003246) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Thrombospondin 1 (THBS1) (NM_003246) Human Untagged Clone
Tag:	Tag Free
Symbol:	Thrombospondin 1
Synonyms:	THBS; THBS-1; TSP; TSP-1; TSP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003246, the custom clone sequence may differ by one or more nucleotides

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ATGGGGCTGGCCTGGGGACTAGGCGTCCTGTTCCCTGATGCATGTGTGTGGCACCAACCGCATTCCAGAGT
CTGGCGGAGACAACAGCGTGTGGTACATCTTTGAACTCACCGGGGCCCGCAAGGGGTCTGGGCGCCG
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CCTGATGACAAGTTCCAAGACCTGGTGGATGCTGTGCGGGCAGAAAAGGGTTTCTCCTTCTGGCATCCC
TGAGGCAGATGAAGAAGACCCGGGGCACGCTGCTGGCCCTGGAGCGAAAGACCACTCTGGCCAGGTCTT
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CACCAGAGACCTGGCCAGCATCGCCAGACTCCGCATCGCAAAGGGGGGCGTCAATGACAATTTCCAGGGG
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GCTCTACCAGTGTCTCCTCACCTTGACAACAACGTGGTGAATGGTTCCAGCCCTGCCATCCGCACTAA
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TGGAAATTCAGCAGCGCGCCGCTCCTGCGATAGCCTCAACAACCGATGTGAGGGCTCCTCGTCCAGACA
CGGACCTGCCACATTCAGGAGTGTGACAAGAGATTTAAACAGGATGGTGGCTGGAGCCACTGGTCCCCGT
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CCAGATGAACGGAAACCCTGTGAAGGCGAAGCGGGGAGACCAAGCCTGCAAGAAAGACGCTGCCCC
ATCAATGGAGGCTGGGGTCTTGGTCACCATGGGACATCTGTTCTGTACCTGTGGAGGAGGGGTACAGA
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AAACCAGATCTGCAACAAGCAGGACTGTCCAATTGATGGATGCCTGTCCAATCCCTGCTTTGCCGGCGTG
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TCCAGTGACACAGATGTTGATGAGTGCAAAGAAGTGCTGATGCCTGCTTCAACCACAATGGAGAGCACCG
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CTGGTGGTAGACTAGGGTTGTTTGTCTTCTCAAGAAATGGTGTCTTCTCTGACCTGAAATACGAATG
TAGAGATCCCTAA
    
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**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_003246 unedited
GTATTTTGAATACGAACTCACTATAGGGCGGCCGCAATTTCGCACGAGGCGAGTTCAGG
GCTCCTGCCGCTCTCCAGNAGCAACCTCTACTCCGGACGCACAGGCATTCCCCGCGCCCC
TCCAGCCCTCGCCGCCCTCGCCACCGCTCCCGGCCGCGCGCTCCGGTACACACAGGATC
CCTGCTGGGCACCAACAGCTCCACCATGGGGCTGGCTGGGGACTAGGCGTCCTGTTCT
GATGCATGTGTGTGGCACCAACCGCATTCCAGAGTCTGGCGGAGACAACAGCGTGTTTGA
CATCTTTGAACTACCCGGGGCCGCCGCAAGGGTCTGGGCGCCGACTGGTGAAGGGCCC
CGACCTTCCAGCCAGCTTCCGCATCGAGGATGCCAACCTGATCCCCCTGTGCCTGA
TGACAAGTTCCAAGACCTGGTGGATGCTGTGCGGGCAGAAAAGGGTTTCTCCTTCTGGC
ATCCCTGAGGCAGATGAAGAAGACCCGGGGCACGCTGCTGGCCCTGGAGCGGAAAGACCA
CTCTGGCCAGGTCTTCAGCGTGGTGTCCAATGGCAAGGCGGGCACCCCTGGACCTCAGCCT
GACCGTCCAAGGAAAGCAGCACGTGGTGTCTGTGGAAGAAGTCTCCTGGCAACCGGCCA
GTGGAAGAGCATCACCTGTTTGTGCAGGAAGACAGGGCCAGCTGTACATCGACTGTGA
AAAGATGGAGAATGCTGANGTGGACGTNCCCATNCCAAGCGTCTTACCAGAGACCTGGC
CAGCATCGCCAGACTCCGCATCGCANAGGGGGCGTCAATGACAATTTCCAGGGGTGCT
GCAAAAATGTGAGGGTTGCTTTGGACCACCCANAGNCATCCTCAGGAACAAAGGCTGN
TNCAGCTCTACAGNGTCTNCTACCCTGACNAACACGTGTGAATGGTTCAGCCTGCCA
TCCGCACTACTACATGN
    
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<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_003246 unedited</p> <pre> TCTGTACCGCGGCACCGCATTCTAGAGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTAAAATCCCATATAGATTTATTGGGGGCCCTTGGCCATAAAAAAC AGTAATATACAATTACTGCTTTAAATGGAAAAGGGATAAAAATGGGTCCAAAAAAA AGCCCATTCCTAAAAAGGGTTTGGCAAATAGTAAAAGGGGAGGGCAAAAGCAAAAAA AAAAAAAAAAAAACCACCAAAAAAACCACCAAAAAAATTTCTCAATTCAGGGGCA AACTTTTATAAAAAATAAAAAATCTACCTTTACAGGCAGTTTTCTGATAAAATTATTA AATAGCATATCTCCCAATCGGAAATTTTTTCCCAAGGGAAGGAAAAATAATTTATA AAATTAACCCTGGGTTTCCAGATGATAAAAAAACCTCCCTTTCAAAAAATGGGATT TAACCTCTCAAGGCTTTTCTTATGGGGAAACCTTCCTCCGAGAGTTTTTATGCTATG ACCAACCCGACTTTTTAGGGCCCCAGAAGCTTAAAGCTGGTTAAACCCTAAAACCTTT CCCCTGGGCCAAAAATCTCTCCACCCACCACAAATGGGGCAAATTTGGCCGGCA ACGCACCCCTCCGGCCTTTTGCCCCCTCGAACCCGAAAAACAAAAAGGGCCATCCC CATCCCTCCCCGGGAAACCCCAAGGCGGGGGCTGAAACACCGTCGGAACACCACC GGGCTAGGCTGGGAGTCGAAACACTGGACGACGCGCCACCGGTGACCCGCTCGGGG AACTCGGCCCCCAGCGAAGATCAGGACCCCTTGTCTTGTCTTTCGTCACCAGCGCT CCGTACACCAAGTACATCTCCAGACACCTTCGCGCCTCTCCCCGTANACATCCCGCCT CGGCCCGTCCACGTTTCCNTCCCCTCTCCCCCCTCG </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003246
<b>Insert Size:</b>	3500 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#"><u>NM_003246.2, NP_003237.2</u></a>
<b>RefSeq Size:</b>	5820 bp
<b>RefSeq ORF:</b>	3513 bp
<b>Locus ID:</b>	7057
<b>UniProt ID:</b>	<a href="#"><u>P07996</u></a>
<b>Cytogenetics:</b>	15q14
<b>Domains:</b>	tsp_1, VWC, EGF_CA, TSPN, tsp_3, EGF, EGF

<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Bladder cancer, ECM-receptor interaction, Focal adhesion, p53 signaling pathway, TGF-beta signaling pathway
<b>Gene Summary:</b>	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]