

Product datasheet for **SC127167**

Thrombospondin 2 (THBS2) (NM_003247) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thrombospondin 2 (THBS2) (NM_003247) Human Untagged Clone
Tag:	Tag Free
Symbol:	Thrombospondin 2
Synonyms:	TSP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_003247 edited
GAATTCGGCAGCAGGGTCAATTCCTTCGAAGGAATGAATTAACAGTCTTCCTCGTGTGTC
TGATTGACAGCCCTGCACAGGAGAAGCGGCATATAAAGCCGCGCTGCCCGGGAGCCGCTC
GGCCACGTCCACCGGAGCATCCTGCACTGCAGGGCCGGTCTCTCGCTCCAGCAGAGCCTG
CGCCTTTCTGACTCGGTCCGGAACACTGAAACAGTCATCACTGCATCTTTTTGGCAAAC
CAGGAGCTCAGCTGCAGGAGGCAGGATGGTCTGGAGGCTGGTCTGCTGGCTCTGTGGGT
GTGGCCAGCAGCAAGCTGGTCAACAGGACAAAGACACGACCTTCGACCTTTTCAGTAT
CAGCAACATCAACCGCAAGACCATTGGCGCAAGCAGTTCGCGGGCCCGACCCCGCGT
GCCGGCTTACCGCTTCGTGCGCTTTGACTACATCCACCGGTGAACGCAGATGACCTCAG
CAAGATCACCAAGATCATGCGGCAAGGAGGGCTTCTCCTCACGGCCAGCTCAAGCA
GGACGGCAAGTCCAGGGCAGCTGTTGGCTCTGGAGGGCCCGTCTCTCCAGAGGCA
GTTTCGAGATCGTCTCCAACGGCCCGCGGACACGCTGGATCTCACCTACTGGATTGACGG
CACCCGGCATGTGGTCTCCCTGGAGGACGTCGGCTGGCTGACTCGCAGTGGAAGAACGT
CACCGTGCAGGTGGTGGCGAGACCTACAGCTTGCACGTGGGCTGCGACCTCATAGACAG
CTTCGCTCTGGACGAGCCCTTCTACGAGCACCTGCAGGCGGAAAAGAGCCGGATGTACGT
GGCCAAAGGCTCTGCCAGAGAGAGTCACTTCAGGGTTTGCTTCAGAACGTCCACCTAGT
GTTTGAAAACCTGTGGAAGATATTCTAAGCAAGAAGGTTGCCAGCAAGGCCAGGGAGC
TGAGATCAACGCCATCAGTGAGAACACAGAGACGCTGCGCCTGGTCCGCATGTCACCAC
CGAGTACGTGGGCCAGCTCGGAGAGGAGCCCGAGGTGTGCGAACGCTCGTGGCAGGA
GCTGGGAAACATGGTCCAGGAGCTCTCGGGCTCCACGCTCCTCGTGAACCAAGCTCAGCGA
GAACCTCAAGAGAGTGTGAATGATAACCAAGTTTCTCTGGGAGCTCATTGGTGGCCCTCC
TAAGACAAGGAACATGTCAGCTTGTGCGAGGATGGCCGGTTCTTTGCGGAAAATGAAAC
GTGGGTGGTGGACAGCTGCACCAGTGTACCTGCAAGAAATTTAAACCAATTTGCCACCA
AATCACCTGCCCGCTGCAACCTGCGCCAGTCCATCCTTTGTGGAAGGCGAATGTGCC
TTCCTGCCTCCACTCGGTGGACGGTGGAGGGGCTGGTCTCCGTGGCAGAGTGGACCCA
GTGCTCCGTGACGTGTGGCTCTGGGACCCAGCAGAGAGGCGGTCTGTGACGTACCAG
CAACACCTGCTTGGGGCCCTCCATCCAGACACGGGCTTGCAGTCTGAGCAAGTGTGACAC



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CCGCATCCGGCAGGACGGCGGCTGGAGCCACTGGTCACCTTGGTCTTCATGCTCTGTGAC
 CTGTGGAGTTGGCAATATCACACGCATCCGTCTCTGCAACTCCCCAGTGCCCCAGATGGG
 GGGCAAGAATTGCAAAGGGAGTGGCCGGGAGACCAAAGCCTGCCAGGGCGCCCCATGCC
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 CGAGTGTGCCCTGGTCCCCGACATCTGCTTCTCCACCAGCAAGGTGCCTCGCTGTGTCAA
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 CACATTCTACGTAACACTGACCGGGACGACGACTATGCCGGCTTCGTCTTTGGTTACCA
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 GGGGACGGGCGAGCACCTGAGGAACCGCTGTGGCACACGGGAACACCGCGGGGAGGT
 GCGAACCTTATGGCACGACCCCAAGAACTTGGCTGGAAGGACTACACGGCCTATAGGTG
 GCACCTGACTCACAGGCCAAGACTGGCTACATCAGAGTCTTAGTGCATGAAGGAAAACA
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 ATTTGTCTTCTCAAGAAATGGTCTATTTCTCAGACCTCAAGTACGAATGCAGAGATAT
 TAAACAAGATTTGCTGCATTTCCGGCAATGCCCTGTGCATGCCATGGTCCCTAGACACC
 TCAGTTCATTGTGGTCCCTTGTGGCTTCTCTCTAGCAGCACCTCCTGTCCCTTGACCTT
 AACTCTGATGGTTCTCACCTCCTGCCAGCAACCCAAACCAAGTGCCTTCAGAGGATA
 AATATCAATGGAACCTCAGAGATGAACATCTAACCCACTAGAGGAAACAGTTTGGTGATA
 TATGAGACTTTATGTGGAGTAAAATTGGGCATGCCATTACATTGCTTTTTCTTGTTTGT
 TAAAAAGAATGACGTTTACATAT

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003247 unedited</p> <p>TACCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGC AGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCG AATTCCGGCAGGAGGTTCCTTCCGAAGGAATGAATTAACGTGCTTCCCTCGTGTGTCT GATTGACAGCCCTGCACAGGAGAAGCGGCATATAAAGCCGCGTGCCCGGGAGCCGCTCG GCCACGTCCACCGGAGCATCCTGCACTGCAGGGCCGGTCTCTCGTCCAGCAGAGCCTGC GCCTTTTCTGACTCGGTCCGGAACACTGAAACCAGTCATCACTGCATCTTTTTGGCAAACC AGGAGCTCAGCTCAGGAGGCAGGATGGTCTGGAGGCTGGTCTCTGCTGGCTCTGTGGGTG TGGCCACGACGCAAGCTGGTACCAGGACAAAGACACGACCTTCGACCTTTTCAGTATC AGCAACATCAACCGAAGACCATTGGCGCAAGCAGTTCCGCGGGCCCGACCCCGGCGTG CCGGCTTACCCTTCTGTGCGCTTTGACTACATCCACCGGTGAACGCAGATGACCTCAGC AAGATCACAAGATCATGCGGCAGAAGGAGGGCTTCTTCTCACGGCCAGCTCAAGCAG GACGGCAAGTCCAGNGGCAGCTGNTGGCTCTGGGAGGGCCCGGTCTCTCCGNAGCAG TTTCGAGATCGTCTCAACGGCCCCCGACACGCTGGATCTCACTACTGGATTGACGNA CCCGGCATGTGGTCTCTGGGAGGACGTCGCCCTGCTGACTCGCAGGAAAGACGTACCG GCCAGGTCTCGCCAGGACTACGCTGGCCGGGGCTGCGACCTTAGAAGCTTCTTCTG ACGACCCTTCTCGAGCACCTGAGCCGGACAGAAACCGATGTTCCGCGNCCAC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003247 unedited</p> <p>GGGGCCCTTGAGATGGCACTTCCGGTCCAGTATGAGCCTGGGGNAGGGTACAGGGTTG CCACCCGGGCTCTGTTACAGAAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTT TTTTTTTTTTTTTTTTTATAAAAAACCTTTTTACAATTTATTTCTGTTGTTAATCTT TAAAAATGAGGTTCTAGCTAAGTGCAGGGTTTCAGTGGTGAATTTTGACCATGTGAACA CATAAATAAATTTACAGTCTTTGGCAAAACACATGACGTTTCATCAACCTATACGATA AATTTGTTTAGAAAAACATAAATAATTTACAAAAAATATGGTACATTCTAAATACTCACA TCATCGTCACTCCACACCATTGTACGGTTGACCCACAACACAGAAACAGAAAAACCTGC ACGCTGTTGACAGTCGCTACATTTAATGAAGTATCCCAACGCTTGGTTGGTCTCGGGAAT ACAGCTCCACACGCAAAAAAGTAAAAAGTGCAGCAAAACAACAACAACAGATCAACCTC AAAGGAAACAACAATTTAATTTTATCAAAATGCAATGTGTACATTAAGACTAAAGTTAT GGATTGTTCTGTTTGGCATAGAAATGTGATGACTATTAACAGAAAGGGGAAAAAGATT GCCCCCTATCCATCATCAGACAGACAGACTTCTTACTAAACCCCTTATGTGGAGTGGG ATGAGTGACTATTTCTGCAGAAAGTCATGCATTTANAGCATAAAAAACAACCCNCCAA CAAAAAAACAACAAAACCAAACTTGTGCATATTACACATGACTGATTATTGGGTGT GCCCTGGCAAGACTAAATGCTGATTCTTTTCAGCGTTTGA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_003247
Insert Size:	6000 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_003247.2 , NP_003238.2
RefSeq Size:	5826 bp
RefSeq ORF:	3519 bp
Locus ID:	7058
UniProt ID:	P35442
Cytogenetics:	6q27
Domains:	tsp_1, VWC, EGF_CA, TSPN, tsp_3, EGF, EGF
Protein Families:	Druggable Genome
Protein Pathways:	ECM-receptor interaction, Focal adhesion, TGF-beta signaling pathway
Gene Summary:	<p>The protein encoded by this gene belongs to the thrombospondin family. It is a disulfide-linked homotrimeric glycoprotein that mediates cell-to-cell and cell-to-matrix interactions. This protein has been shown to function as a potent inhibitor of tumor growth and angiogenesis. Studies of the mouse counterpart suggest that this protein may modulate the cell surface properties of mesenchymal cells and be involved in cell adhesion and migration. [provided by RefSeq, Jul 2008]</p>