

## Product datasheet for SC113589

### THNSL2 (NM\_018271) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	THNSL2 (NM_018271) Human Untagged Clone
Tag:	Tag Free
Symbol:	THNSL2
Synonyms:	SOFAT; THS2; TSH2
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_018271, the custom clone sequence may differ by one or more nucleotides

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ATGTGGTATGTCAGCACCAGGGCGTAGCCCCACGGTCAACTTTGAGGGGGCCCTCTTCTCTGGCTATG
CACCTGACGGGGCCCTTTATGCCTGAAGAGCTCCCACAGTTGGACAGAGGGACCCTGTGCCAGTGGAG
CACACTCTCTATCCTGGCCTGGTGAAGGAGCTGTGTGCCCTCTCATTGGCTCTGAGCTCCTTCCAAAA
GATGAATTAATGATCTGATCGACCGAGCCTTCAGCAGATTCCGTACAGAGAAGTGGTCCATCTGTCCA
GGTTGAGGAATGGGCTGAACGTGTTGGAGCTGTGGCATGGCGTCACATATGCATTTAAGGACCTGTCCCT
GTCCTGCACAACACAGTTCTGCACTACTTCTGGAGAAGAGGGAGAAGCACGTCACACTGTGGTTGTAGGA
ACATCTGGGGACACAGGAAGTGCTGCCATTGAGAGTGTTCAAGGGGCAAAGAACATGGACATTATCGTTC
TGCTGCCCAAAGGTCACCTGCACAAAGATTGAGGAGCTCCAGATGACAACGGTGCTGAAGCAGAACGTACA
TGTGTTTGGAGTGGAGGGAAACAGCGATGAGCTCGATGAGCCGATCAAGACTGTGTTTGGCGATGTGGCT
TTTGTCAAGAAGCACAATCTGATGAGCCTGAATTCGATCAACTGGTCCCAGGTCCTGGTGCAGATGGCCC
ATCACTTCTTTGCTTACTTCCAGTGTACGCCATCCTTGGACACACATCCCCTACCCTGGTGGAGGTGGT
TGTGCCAACAGGGGCTGCCGGTAACCTTGACAGCTGGGTACATTGCTCAAAGATAGGCCCTGCCATCCGT
CTGGTCGTGGCAGTGAACCGCAATGACATCATCCACAGGACTTCCAGCAGGGAGACTTCTCTCTCTG
AGGCTGTTAAATCAACCTTGGCATCAGCTATGGACATTCAGGTGCCCTACAACATGGAGAGGGTGTCTG
GCTGCTCTCTGGCTCTGACAGCCAGGTGACAAGAGCCCTCATGGAGCAGTTTAAAAGGACCCAAAGTGTG
AATCTGCCAAAGGAACTGCACAGCAAGCTTTCAGAGGCAGTGACATCCGTGTCAGTGTGGATGAAGCCA
TCACCCAGACCATGGGCCGCTGCTGGGATGAGAACCAGTACTTGTGTGCCCCCACTCAGCGGTGGCCGT
GAACTACCATTACCAGCAGATAGACAGGCAGCAGCCAGCACTCCCGGTGCTGCCTCGCCCTGCCTCT
GCAGCCAAGTTCCCGAAGCTGTCTGGCTGCTGGCCTGACCCCTGAGACTCCCGCGGAGATCGTAGCCC
TGGAGCACAAGGAGACAGCTGCACCCTGATGCGGAGAGGTGACAACGGATGCTGATGCTTCGGGACAC
CATTGAGGACCTTAGCCGACAGTGGAGGAGTCATGCCCTCAACACCTCCCAGTAG
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_018271 unedited  
 TGTATACGACTCACTATAGGCGGCCGGAATTCGGCACGAGGCAAGCTTTCTCTTTTCCC  
 GGCATGCTCCGATACCCTCTCCCTGAAGACAGGAGGTCAAGTGGCTCATTGAT  
 TGGTGGAAATCATGATTTACACAGTTGTAGATGAAGCTGGCATGAGACTTGATACAGGACT  
 GCCATCTCTAGGTCTGGGACATGTGCCCGGAGACTGGTGGTCTAGAGGCTAACTGTGAG  
 ACTGTGTGTGCTTTGGCTTTGCCCGTGGGGTGTGGGAGCTTGGAGACCAGGTGCTTCTG  
 GGACTGTCTCTCTGCAGGCCTCCAGGATCATGTGGTATGTCAGCACACCAGGGCGTAGCC  
 CCACGGGTCAACTTTGAGGGGGCCCTCTTCTCTGGCTATGCACCTGACGGGGCCCTTTT  
 ATGCCTGAAGAGCTCCACAGTTGGACAGAGAGACCCTGTGCCAGTGGAGCACACTCTCC  
 TATCCTGGCCTGGTGAAGGAGCTGTGTGCCCTCTTATTGGCTCTGAGCTCCTTCCAAAA  
 GATGAATTAATGATCTGATCGACCCAGCCTTCAGCAGATTCCGTACAGAGAAGTGGTC  
 CATCTGTCCAGGTTGAGGAATGGGCTGAACGTGTTGGAGCTGTGGCATGGCGTCACATAT  
 GCATTTAAGGACCTGTCCCTGCCTGCACAACACAGTTTCTGCAGTACTTCTGGAGAAG  
 AGGAGAAGCACGTCACTGTGGGTGTAGGAACATCTGGGACCAGNGAGTGTGCCATTGAG  
 AGTGGTCAAGGGCAAGAACATGGACATATCGTCTGCTGCCAAGTCACTGCACAAGATTC  
 AGAGCTCCAATGACACCGTGCTGAGCACACGTACTTGTGTTTGGAGGGAGGGAACACCGA  
 TGACTCATGAC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_018271 unedited  
 CTCATGAAACCCGNNCGNCGNNAATNCTNAGNANTNCGNAGNTTNNNTTNNNTT  
 TTNNTTNTTNTTACACACGTGAAACAAGNCTATTTTATTTCCAGGGAATCCCAACA  
 TGTGAGCAGGGTGAAGCCTCTGACAAGGTGGCCAGAACCTTTGGATTTGGTTGGGG  
 CCAAAATCAACTAAGGCTCAGAGAACATACAAAGCCTGCGTGAAGGTGATGAGCTGCTCC  
 CACCTTACAGGTCTGGGGTCTAAACCCTGGAGCCATGGTCAGTCTGTGCCAAGC  
 CTCTTCTTTTGCAGGCCCTGAACTTTCACTACAGCTCAAACACTGCTGCACGGGCCGGG  
 GAGGGAGGGGGTCTTCCGGCACTGTTACAGCCCTCACTCAGCCTCCCTGGTGACCA  
 GGCACAGACTAGCCAGGGAACGGAGCAAAGCCAGCTGGCTCCAGATCCAGCTGAGCAGCC  
 TCCCGAAACCTCCTAACCTACGCTTAATGGGGAGGGTGACAAGGCAGCTCAGAAGGTG  
 CATCTTCTGGGATCTGAAGCCTAAAGAAAGCCACCTCCAGCCAGGCTACTGGGAGGTG  
 TGAGGGCATGACTCCTCCACTGTCCGGTAAGGTCTCAATGGTGTCCCGAAGCATCAGCA  
 TCCAGTTGTACCTCTCCGCATCAGGGTGCAGCGTGTCTCCTTGTGCTCCAGGGCTACGA  
 TCTCCGCGGGAGTCTCAGGGTCAAGCCACCATCCAGAACAAAGTTTCCGGACCTTGGCTG  
 CATATGCAGGTGCCAGGCATTACCCGGGAAGCCGGCAACTGCTCCTCCTGGTTGGAGGC  
 CAATTTAAGCCCCACCTTTGACCATGGCTGNCCTTGGGATATTTGCAACCCTCCTTTTTT  
 GGGCCCAAGTTCCAGGACAATTTCCCAAGGACCCATACAATCATTAAAGGCATTGT  
 TTGCGAATCTGTTTTTCCCTGGTTTTATAATAAACACGCCCTTTTCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_018271

**Insert Size:**

2430 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:**

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\\_018271.2](#), [NP\\_060741.2](#)

**RefSeq Size:** 1985 bp

**RefSeq ORF:** 1218 bp

**Locus ID:** 55258

**UniProt ID:** [Q86YI6](#)

**Cytogenetics:** 2p11.2

**Gene Summary:** This gene encodes a threonine synthase-like protein. A similar enzyme in mouse can catalyze the degradation of O-phospho-homoserine to a-ketobutyrate, phosphate, and ammonia. This protein also has phospho-lyase activity on both gamma and beta phosphorylated substrates. In mouse an alternatively spliced form of this protein has been shown to act as a cytokine and can induce the production of the inflammatory cytokine IL6 in osteoblasts. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2011]  
Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.