

## Product datasheet for **SC330218**

### THNSL2 (NM\_001244676) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** THNSL2 (NM\_001244676) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** THNSL2  
**Synonyms:** SOFAT; THS2; TSH2  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC330218 representing NM\_001244676.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

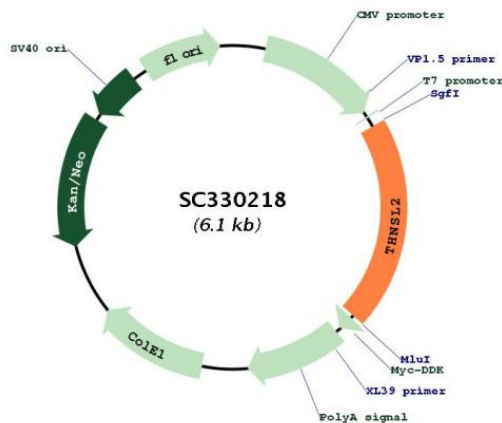
```
ATGTGGTATGTCAGCACCAGGGCGTAGCCCCACGGGTCAACTTTGAGGGGGCCCTCTTCTCGGCTAT
GCACCTGACGGGGCCTCTTTATGCCTGAAGAGCTCCCACAGTTGGACAGAGGGACCCTGTGCCAGTGG
AGCACACTCTCTATCCTGGCCTGGTGAAGGAGCTGTGTGCCCTCTTCATTGGCTCTGAGCTCCTCCA
AAAGATGAATTAATGATCTGATCGACCGAGCCTTCAGCAGATCCGTCACAGAGAAGTGGTCCATCTG
TCCAGGTTGAGGAATGGGCTGAACGTGTTGGAGCTGTGGCATGGCGTCACATATGCATTTAAGGACCTG
TCCCTGTCCTGCACAACACAGTTCTGCAGTACTTCTGGAGAAGAGGGAGAAGCAGTCACTGTGGTT
GTAGGAACATCTGGGACACAGGAAGTGCCTGCCATTGAGAGTGTCAAGGGGCAAAGAACATGGACATT
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AACGTACATGTGTTGGAGTGGAGGGAAACAGCGATGAGCTCGATGAGCCGATCAAGACTGTGTTTGCC
GATGTGGCTTTTGTCAAGAAGCACAATCTGATGAGCCTGAATTCGATCAACTGGTCCCAGGCTCTGGTG
CAGATGGCCCATCACTTCTTTGCTTACTTCCAGTGTACGCCATCCTTGGACACACATCCCCTACCCCTG
GTGGAGGTGGTTGTGCCAACAGGGGCTGCCGTAACCTTGACGCTGGGTACATTGCTCAAAGATAGGC
CTGCCCATCCGCTGGTCTGTCAGTGAACCGCAATGACATCATCCACAGGACTGTCCAGCAGGGAGAC
TTCTCTCTCTGAGGCTGTTAAATCAACCTTGGCATCAGCTATGGACATTCAGGTGCCCTACAACATG
GAGAGGGTGTCTGGCTGCTCTCTGGCTCTGACAGCCAGGTGACAAGAGCCCTCATGGAGCAGTTTGAA
AGGACCCAAAGTGTGAATCTGCCAAGGAACTGCACAGCAAGTGGGAGAGACAGGACTACGAAAAATG
GCTGTAATGGAGTGTGATGGGTGCTGTGTGAACTGTGCCTTGGAACTGTGGGCCAGAAGAGGGAGC
GTGACAGATATCCAGGGACAGCCATGGTCAGAGGTGGTGGCTGA
```

**Restriction Sites:** SgfI-MluI



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## Plasmid Map:



ACCN: NM\_001244676

Insert Size: 1218 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\\_001244676.1](#)

RefSeq Size: 2169 bp

RefSeq ORF: 1218 bp

Locus ID: 55258

UniProt ID: [Q86YJ6](#)

Cytogenetics: 2p11.2

MW: 45 kDa

**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 (2) has a longer 5' UTR and uses an alternate exon in the 3' coding region, which results in a frameshift, compared to variant 1. The resulting protein (isoform 2) has a distinct C-terminus, compared to 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.