

## Product datasheet for **MC218735**

### Thnsl2 (NM\_001033929) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Thnsl2 (NM_001033929) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Thnsl2
Synonyms:	BC051244; TSH2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC218735 representing NM\_001033929  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGTACACTAGCACCCGGGAATGGCCCCACGGGTCAACTTTGAGGGGGCCCTTCTCTGGTTATG  
 CACCAGATGGGGCCTCTATATGCCAGAGGAGCTCCCTAGGCTGGACGAAGAGACCCTGCGTCACTGGAG  
 CACGCTGTCTATCGCAGCCTGGTGAAGGAGCTGTGTGCTCTTTCATTGGTCTGGAGCTTATTCCAAGA  
 CATGACTTAAATGATCTGATTGACCGAGCCTTCAGCAGATTCCGCCACAGAAATGTGGTCCATCTATGCA  
 AGCTGAAGAATGGACTGAACATACTGGAGTTGTGGCATGGGGTACATATGCCTTTAAGGACCTGTCCCT  
 GTCCTGCACAGCACAGTTCCTGCAGTACTTCTGGAGAAGAAGAAGCATGTCACCATTGTTGTGGGA  
 ACTTCTGGGGACACGGGAAGTGTGCCATTGAGAGTGTCAAGGATCCAAGAATGTGGACATTATTGTTT  
 TGTTGCCCAAAGGCCATTGCTCAAAGATCCAGGAGCTCCAGATGACAACGGTGTAAAGGAGAACGTTCA  
 TGTGTTTGAAGTGAAGGAAACAGCGATGAGCTTGACGAACCCATCAAGCCGTGTTGCTGATGTGGCC  
 TTTGTCCAGAGGCACAATGTGATGAGCTTGAACCCATCAACTGGTCTCGGGTCCCTGGTGCAGATGGCAC  
 ACCACTTCTTCGCTTATTTCCAGTGTACACCATCCTTGGATACGCACCCCTGCCACAGTGGAGGTGGT  
 AGTGCCGACGGGAGCTGGGGTAACCTTGACAGTGGGTGCATTGCTCAGAAGATGGGCCTGCCTATCTGT  
 CTGGTTGTGGCAGTGAACCGCAACGACATCATTACAGGACTGTCCAGAAGGGAGACTTCTCTGTGTG  
 AGGTTCTCAGAACAACCTGGCATCTGCTATGGACATTCAGGTTCCCTACAACATGGAGAGGATCTTCTG  
 GCTGCTCTCTGGCTCTGACAGCCAGACAACAAGAGCCCTCATGGAACAGTTTGAAGAACCCAAAGTCTG  
 CAGTACCCAAGGACCTACATAACAAGCTTTCAGAGGCAGTGACATCTGAGTCTGTGACTGATGAGGCCA  
 TCACCCAGACTATGGCCCGCTGCTGGGAGGAAAACCACTACTGTGCCCCACTCGGCCACAGCGGT  
 GAACTACCATTACCAGCAGACTGACAGTGGACAGTCCAGCATCAGGTGCTGCCTGGCCTCTGCCTCAGCA  
 GTCAAATTTCCAGAAGCAGTCCAGGCGGCTGGGCTGACCCAGAGACTCCCGCAGAGATCTGGCCCTGG  
 AGCACAAGGAGACACGCTGTATCCCAATGCGGAGAGGAGATGACTGGACACAGATGCTGCGGGTACCAT  
 TGAGGGCTGTCCAGCGGTGGAAGATTGTGTAGTGAACCCCTCAGAA**TAG**

**ACGGT**ACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001033929

**Insert Size:** 1452 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\\_001033929.2](#), [NP\\_001029101.1](#)

RefSeq Size: 2018 bp

RefSeq ORF: 1452 bp

Locus ID: 232078

UniProt ID: [Q80W22](#)

Cytogenetics: 6 C1

**Gene Summary:** Acts as a catabolic phospho-lyase on both gamma- and beta-phosphorylated substrates. Degrades O-phospho-threonine (PThr) to alpha-ketobutyrate, ammonia and phosphate. Also degrades O-phospho-homoserine (PHS), but this is not its physiological substrate. [UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein.