

Product datasheet for **MG207732**

Thnsl2 (NM_001033929) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thnsl2 (NM_001033929) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Thnsl2
Synonyms:	BC051244; TSH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207732 representing NM_001033929
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTGGTACACTAGCACCCGGGAATGGCCCCACGGGTCAACTTTGAGGGGGCCCTTCTCTGGTTATG
 CACCAGATGGGGCCTCTATATGCCAGAGGAGCTCCCTAGGCTGGACGAAGAGACCTGCGTCACTGGAG
 CACGCTGTCTATCGCAGCCTGGTGAAGGAGCTGTGTGCTCTTTCATTGGTCTGGAGCTTATTCCAAGA
 CATGACTTAAATGATCTGATTGACCGAGCCTTCAGCAGATTCCGCCACAGAAATGTGGTCCATCTATGCA
 AGCTGAAGAAATGGACTGAACATACTGGAGTTGTGGCATGGGGTCACATATGCCTTTAAGGACCTGTCCCT
 GTCCTGCACAGCACAGTTCTGCAGTACTTCTGGAGAAGAAGAAGCATGTCACCATTGTTGTGGGA
 ACTTCTGGGGACACGGGAAGTGTGCCATTGAGAGTGTTCAAGGATCCAAGAATGTGGACATTATTGTTT
 TGTTGCCAAAGGCCATTGCTCAAAGATCCAGGAGCTCCAGATGACAACGGTGTTAAAGGAGAACGTTCA
 TGTGTTTGAAGTGAAGGAAACAGCGATGAGCTTGACGAACCCATCAAGCCGTGTTTGTGATGTGGCC
 TTTGTCCAGAGGCACAACGTGATGAGCTTGAACCCATCAACTGGTCTCGGGTCTGGTGCAGATGGCAC
 ACCACTTCTTCGCTTATTTCCAGTGTACACCGTCTTGGATACGCACCCCTGCCACAGTGGAGGTGGT
 AGTGCCGACGGGAGCTGGGGTAACCTTGACAGTGGGTGCATTGCTCAGAAGATGGGCCTGCCTATCTGT
 CTGGTTGTGGCAGTGAACCGCAACGACATCATTACAGGACTGTCCAGAAGGGAGACTTCTCTGTGTG
 AGGTTCTCAGAACAACCTGGCATCTGCTATGGACATTCAGGTTCCCTACAACATGGAGAGGATCTTCTG
 GCTGCTCTCTGGCTCTGACAGCCAGACAACAAGAGCCCTCATGGAACAGTTTGAAGAACCCAAAGTCTG
 CAGCTACCCAAGGACCTACATAACAAGCTTTAGAGGCAGTGACATCTGAGTCTGTGACTGATGAGGCCA
 TCACCCAGACTATGGCCCGCTGCTGGGAGGAGAACCAGTACCTACTGTGCCCCACTCGGCCACAGCGGT
 GAACTACCATTACCAGCAGACTGACAGTGGACCGTCCAGCATCAGGTGCTGCCTGGCCTCTGCCTCAGCA
 GTCAAATTCCTCAAAGCAGTCCAGGCGGCTGGGCTGACTCCCGAGACTCCCGCAGAGATCTGGCCCTGG
 AGCACAAGGAGACACGCTGTATCCCAATGCGGAGAGGAGATGACTGGACACAGATGCTGCGGGTACCAT
 TGAGGGCTGTCCCAACGGTGGAAAGATTGTGTAGTGAACCCCTCAGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207732 representing NM_001033929
 Red=Cloning site Green=Tags(s)

MWYSTRGMAPRVNFEALFSGYAPDGGLYMPEELPRLDEETLRHWSTLSYRSLVKELCALFIGLELIPR
 HDLNDLIDRAFSRFRHRNVVHLCKLKNGLNILELWHGVYAFKDLSLSCTAQFLQYFLEKKKHVTIVVG
 TSGDTGSAAIESVQGSKNVDIIIVLLPKGHCSKIQLQMTTVLKENVHVFEVEGNSDELDEPIKAVFADVA
 FVQRHNVMNSLNSINWSRVLVQMAHFFAYFQCTPSLDTHPLPTVEVVVPTGAGGNLAAGCIAQKMGLPIC
 LVVAVNRNDIIHRTVQKGFSLCEVLRRTTLASAMDIQVPYNMERIFWLLSGSDSQTRRALMEQFERTQSL
 QLPKDLHNKLEAVTSESVTDEAITQTMARWEENQYLLCPHSATAVNYHYQQTDSGPSSIRCCLASASA
 VKFPKAVQAAGLTPETPAEILALEHKETRCIPMRRGDDWTQMLRVTIEGLSQRWKDCVVPNPSE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001033929

ORF Size: 1449 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001033929.1](#)

RefSeq Size: 1800 bp

RefSeq ORF: 1452 bp

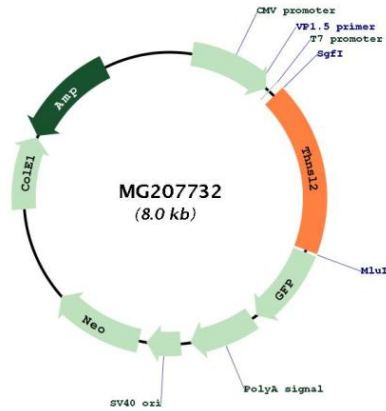
Locus ID: 232078

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]

Product images:



Circular map for MG207732