

Product datasheet for **RR210852**

Thnsl2 (NM_001009658) Rat Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Thnsl2 (NM_001009658) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Thnsl2 |
| Synonyms: | RGD1309144; Tsh2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RR210852 representing NM_001009658
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGTACACTAGCACCCGGGAATGGCCCCACGGGTCAACTTTGAGGGGGCTCTTCTCTGGTTATG
 CACCAGATGGGGCCTCTATATGCCAGAGGAGCTCCCAAGGCTGGACAAAGAGACCTGCGTCACTGGAG
 CACGCTGTCTATCGCAGCCTGGTGAAGGAGTTGTGTGCCCTTTCGTTGGCCTGGAGCTTATTCCAAGA
 CATGACTTAAATGGTCTGATTGACCAAGCCTTCAGCAGATTCCGCCATAGAGATGTAGTTTCATCTGTGCA
 AGCTGAAGAATGGGCTGAACATATTGGAGTTGTGGCATGGGGTCACATATGCCTTTAAGGACCTGTCCCT
 GTCCTGCACAGCACAGTTCTGCAATACTTCTAGAGAAGAAGAAGAAGCATGTCACCATTGTTGTGGGA
 ACCTCTGGGGACACGGGAGTGTGCCATTGAGAGTGTCAAGGATCCAAGAATGTGGACATTATTGTTT
 TGTTGCCAAAGGACATTGCTCAAAGATTCAAGGAGCTCCAGATGACAACCTGGTAAAGGAAAATGTTCA
 TGTGTTTGGAGTGAAGGAAACAGTGATGAGCTTGATGAACCCATCAAGGCTGTGTTTGTGATGTGGCC
 TTTGTCCAGAGGCACAACCTGATGAGCTTGAACCCATCAACTGGTCCCGGGTCCCTGGTGCAGATGGCAC
 ACCACTTCTTCGCTTATTTCCAGTGCACGCCGTCTTGGACATGCACCTCCTGCCACGGTGGAGGTGGT
 AGTGCCGACGGGGCTGGGGGTAACTTGCAGCTGGATGCATTGCTCAGAAGATGGGCTGCCAATCAGT
 CTGGTGGTGGCAGTGAACCGCAATGACATCATTACAGGACTGTTCAGAAGGGAGACTTCTCTGTGTG
 AGGTTGTCCGAAAAACCTGGCATCTGCTATGGACATTCAGGTACCCTACAACATGGAAAGGATCTTCTG
 GCTGCTTGCTGGCTCTGACAGCCAGACAACAAGGGCCCTCATGGAACAGTTTGAAGAACCCAAAGTCTA
 CACCTCCCAAGGACCTACATAGCAAGCTTTAGAGGCAGTACATCTGAGTCCGATCTGATGAGGCCA
 TACCCAGACCATGGGCCGCTGTTGGGAAGAGAACCAGTACCTACTGTGCCCTCACTCAGCCACAGCAGT
 GAGCTACCATTACCAGCAGACTGACAGTGGGCAGCCAGTAGCATCCCCGGTGTGCTGGCCCCCTGCC
 TCAGCAGTCAAATTTCCAGAAGCAGTCCAGGCGGCTGGGCTGACTCCTGAGACCCCCGAGAGATCTTGG
 CCCTGGAGACAAGGAGACAGCTGTACCCCAATGCGGAGAGGAGATGACTGGACACAGATGCTGCGGGA
 CACGATTGAGGCCCTGTCCCTGCGCTGGAAGGCTGTGTAGAGAACCAGCAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210852 representing NM_001009658
 Red=Cloning site Green=Tags(s)

MWYSTRGMAPRVNFEALFSGYAPDGLYMPEELPRLDKETLRHWSTLSYRSLVKELCALFVGLLEIPR
 HDLNGLIDQAFSRFRHRDVVHLCKLKNGLNILELWHGVTYAFKDLSLSCTAQFLQYFLEKKKKHVTIVVG
 TSGDTGSAAIESVQGSKNVDIIIVLLPKGHCSKIQELQMTTVVKENVHVFVEGNSDELDEPIKAVFADVA
 FVQRHNLMSLNSINWSRVLVQMAHFFAYFQCTPSLDMHLLPTVEVVVPTGAGGNLAAGCIAQKMGLPIS
 LVVAVNRNDIIHRTVQKGFSLCEVVRKTLASAMDIQVPYNMERIFWLLAGSDSQTTTRALMEQFERTQSL
 HLPKDLHSLKSEAVTSESVSDEAITQTMGRWEENQYLLCPHSATAVSYHYQQTDSGQPSSIPRCLLAPA
 SAVKFPEAVQAAGLTPETPAEILALEHKETRCTPMRRGDDWTQMLRDTIEALSLRWKGCVENTAE

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001009658

ORF Size: 1455 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_001009658.1](#), [NP_001009658.1](#)
RefSeq Size: 1779 bp

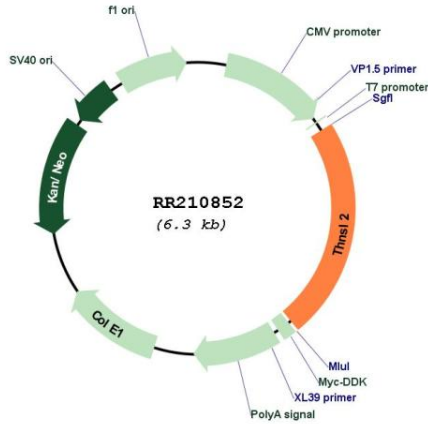
RefSeq ORF: 1458 bp

Locus ID: 297332

UniProt ID: [Q5M7T9](#)

Cytogenetics: 4q31
MW: 54.1 kDa
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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR210852