

Product datasheet for RR201766

Thbs1 (NM_001013062) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thbs1 (NM_001013062) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Thbs1
Synonyms:	TSP-1; Tsp1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR201766 representing NM_001013062 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTCTCAGGGGACTAGGCGTCTGTTCTGTTGCATGTGTGTGGAAGCAACCGCATTCCAGAGT
CTGGGGGAGACAATGGTGTGTTTCGACATTTTTGAACTCATTGGAGGTGCCCGCAAGGTTCCGGGTGCGCC
ACTGGTGAAGGGCCAAGATCTATCCAGCCCCGCTTCCGGATCGAGAATGCCAACCTGATCCCCCTGTG
CCAGATGACAAGTTCCAAGACCTACTGGACGCTGTGTGGGCCGACAAAGGCTTCATCTTCTGGCTTCT
TGAGGCAGATGAAGAAGACTCGGGGCACACTCCTGGCCGTGGAACGGAAAGACAATTCTGGCCAGATCTT
CAGTGTGGTCTCCAATGGCAAAGCCGGCACCTCGATCTGAGTCTGAGCCTGCCCGGAAGCAGCAAGTG
GTGTCAGTGGAGGAAGCTCTCCTGGCCACTGGCCAGTGGAAAGAGCATCACGCTGTTTGTCCAAGAAGACA
GGGCCAGCTCTACATTGACTGTGACAAGATGGAGAGCGCAGAGCTGGATGTTCCCATCCAGAGCATCTT
CACAAGGGATTTGGCCAATGTCGCCAGGCTCCGAGTCGCAAAGGGAGATGTCAATGACAATTTTCAGGGG
GTGCTGCAGAATGTGAGGTTTGTCTTTGGAACCACCCAGAAGACATTCTCAGGAACAAAGGCTGCTCCA
GTTCAACCAACGTCCTTTCACCCTTGACAACAACGTTGGTGAACGTTCCAGCCCTGCCATCCGACCA
CTACATCGGCCACAAAACAAAGGACCTCCAAGCCATCTGTGGCCTCTCCTGTGACGAACTATCCAGCATG
GTCCTGGAAGTGAAGGGCCTGCGTACCATCGTGACCACGCTACAGGACAGCATTGCAAAGTGACGGAAG
AGAACAGAGAGCTGGCTAGCGAGCTGAGGCGCCCTCCCCTCTGCTTCCACAATGGAGTCCAATACAGGAA
CAACGAGGAGTGGACTGTAGATAGTTGCACAGAGTGTCACTGCCAGAAGTACGTTACCATCTGCAAAAAG
GTGCTCCTGTCCCATCATGCCCTGCTCCAATGCCACAGTTCCTGATGGTGAATGCTGCCACGGTGTGCG
CCAGTACTCTGCTGACGATGGCTGGTCTCCCTGGTCTGAGTGGACCTTTGCTCTGCCACCTGTGGCAA
TGGGATTCAGCAACGTGGTCGCTCCTGTGACAGCCTCAACAACAGATGTGAGGGCTTTTCAGTACAGACG
AGGACCTGCCACATTGAGGAGTGCACAAAAGATTTAAACAGGATGGTGGTTGGAGTCACTGGTCCCCTG
GGTCGTCCTGTTCTGTGACCTGTGGTGAAGGTTGATCAGGAGGATCCGACTCTGCAACTCCCCAGCCC
CCAGATGAACGGGAAGCCCTGTGAAGGTGAAGCTCGGGAGACAAAGCCTGCAAGAGGACGCGCTGCCCA
ATCAATGGAGGCTGGAGTCCCTGGTCACTATGGGACATCTGCTCTGTACCTGTGGAGGAGGAGTACAGA



[View online >](#)

GACGTAGCCGACTCTGCAACAACCCACACCCAGTTTGGAGGCAAGACTGTGTTGGTATGTGACGGA
AAATCAAGTTTGAACAAGCAGGACTGTCCGATTGATGGATGCCTGTCCAATCCCTGCTTTGCTGGTGCC
AAGTGTACGAGCTATCCTGATGGTAGCTGGAAATGTGGTGCCTGTCTCTGGCTACAGTGGAAATGGTA
TCCAGTGCAAAGACGTCGACGAGTGCAAAGAAGTGCTGATGCTTCAATCACAACGGGAACATCG
GTGCAAGAACACAGATCCTGGCTACAACGCCTGCCCTGCCACCACGATTACCCGGCTCACAGCCCTC
GGCAGAGGTGTGCAACACGCTATGGCCAACAAACAGGTGTGCAAAACCCGAAACCCCTGCACCGACGGGA
CACACGACTGCAACAAGAACGCCAAGTGAACACTCCTGGGTCACTACAGCGACCCCATGTACCCGTGCGA
GTGCAAGCCTGGCTATGCAGGCAATGGCATCATTTGCGGAGAGGACACAGACCTTGACGGCTGGCCTAAT
GAAAACCTGGTGTGTGTGGCCAACGCAACCTACCACTGCAAAAAGGACAACCTGCCCAATCTTCCAATT
CGGGGCAGGAAGACTATGACAAGGATGGGATTGGCGATGCCTGTGATGACGATGATGACAACGACAAGAT
TCCTGATGACAGGGACAACCTGTCCATTCCATTACAACCCTGCCAGTATGACTATGACAGAGATGATGTG
GGAGACCCTGTGACAATTGCCCTACAACCACAACCCTGACCAGGCAGACACAGACAACATGGGGAGG
GAGATGCCTGCGTGTGGACATCGATGGGGATGGAATCCTCAATGAACGAGACAACCTGCCAGTATGTTTA
CAACGTGGATCAGAGGGACACGGACATGGATGGGGTTGGAGACCAGTGTGACAACCTGCCCTGGAACAC
AATCCAGACCAGCTGGACTCTGACTCGGACCGCATAGGGGACACCTGTGACAACAATCAGGCCATCGATG
AGGATGGCCATCAGAACAACCTTGAAAACCTGTCCCTATGTGCCAATGCCAACCCAGGCCGACCACGATAA
AGATGGTAAAGGAGACGCTGTGACCATGACGATGACAACGACGGCATCCCTGATGACAGAGACAACCTGC
AGGCTGGTGCCCAATCCTGACCAGAAGGACTCTGATGGTATGGCCGAGGCGATGCCTGCAAAGACGACT
TTGACCATGACAATGTGCCAGACATTGATGACATCTGTCTGAGAATGTTGACATCAGTGAACCCGATTT
CCGCCGATTCCAGATGATTCCTCTAGATCCCAAAGGAACCTCCCAAAATGACCCTAACTGGGTTGTCGC
CATCAGGGCAAAGAACTTGTCAGACTGTAACCTGTGACCCTGGACTTGTGTAGTTATGATGAGTTTA
ATGCCGTGGACTTCAGTGGTACCTTCTTCATCAACACTGAGAGGGATGACGACTATGCTGGCTTTGTTTT
CGGGTACCAGTCCAGCAGCCGCTTCTACGTTGTGATGTGGAACAAGTCACCCAGTCTACTGGGACACC
AACCCACAAGGCTCAGGGATACTCAGGCCTGTCTGTAAGGTTGTAACCTCCACCACTGGCCCCGGCG
AGCACCTGCGGAATGCACTGTGGCACACAGGAAACACCCCTGGCCAGGTGCGCACCTGTGGCATGACCC
TCGTACATTGGCTGAAAGATTTCACTGCATACAGATGGCGTCTCAGCCACAGGCCAAAGACCGGTTTG
ATCAGAGTGGTATGATGAAGGAAAGAAAATCATGGCTGACTCAGGACCCATCTATGACAAAACCTACG
CTGGCGGTAGACTAGGCCTGTTCTTCTCTCAAGAAATGGTGTCTTCTCGGACATGAAATACGAGTG
CCGAGACTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201766 representing NM_001013062
 Red=Cloning site Green=Tags(s)

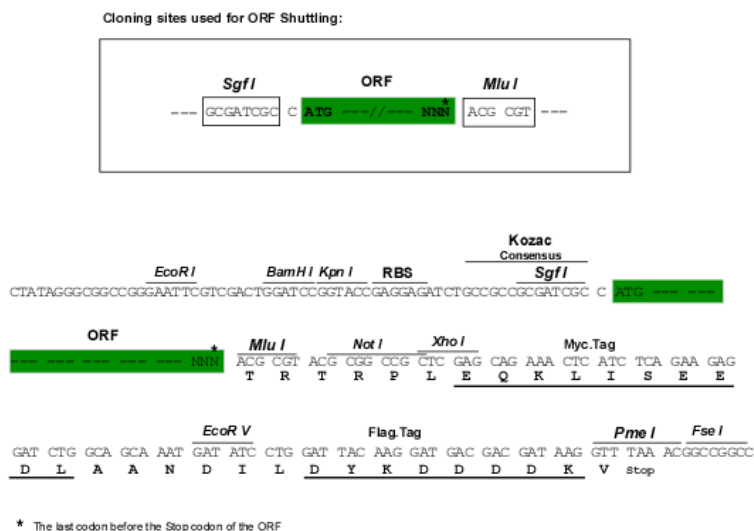
MELLRGLGVLFLHVCGSNRIPESGGDNGVFDIFELIGGARKVPGRRLVKGQDLSSPAFRIENANLIPPV
 PDDKFQDLLDAVWADKGFIFLASLRQMKKTRGTLTAVERKDNSGQIFSVVSNKAGTLDL SLSLPGKQQV
 VSVEEALLATGQWSITLQVQEDRAQLYIDCDKME SAELDVPIQSFTRDLANVARL RVAKGDVNDNFQV
 VLQNVRFVFGTTPEDILRNKGCCSSTNVL LTLDNVVNGSSPAIRTNYIGHKTKDLQAICGLSCDELSSM
 VLELRGLRTIVTTLQDSIRKVTENRELA SE LRRPPLCFHNGVQYRNNEEWTVDSCTECHCQNSVTICKK
 VSCPIMPSCNATVPDGECCPRCWP SDSADDGWSPSEW TSCSATCGNGIQQRGRSCD SLNNRCEGSSVQT
 RTCHIQC DKRFKQDGGWSHWSPWSS SVTCGDGVITRIRLCNSPSPQMNGKPCEGEARETKACKKDACP
 INGGSWPSLWDICSVTCGGGVQRRSRL CNNPTPQFGGKDCVGDVTENQVCNKQDCPIDGCLSNPCFAGA
 KCTSYPDGSKWCGACPPGYSGNGIQCKDV DECKEVPDACFNHNGEHRCKNTDPGYNCLPCPPRFTGSQPF
 GRGVEHAMANKQVCKPRNPCTDTHDCNKN AKCNLGHYS DPMYRCECKPGYAGNGIICGEDTDLDGWPN
 ENLVCVANATYHCKKDNCNPLPNSGQEDYDKD GIGDACDDDDNDKIPDDRDNCPFHYNPAQYDYDRDDV
 GDRCDNCPYHNPDQADTDNNGEGDACA V DIDGDGILNERDNCQVYVNVQDRD TMDG VG DQCDNCPLEH
 NPDQLDSDSDRIGDTCNNAQAIDEDGHQNLEN CPYVNPANQADHDKDGKGDACDHDDNDGIPDDRDN C
 RLVPNPDQKDSGDGRGDACKDDFDHDNVPDI DDICPENVDISETDFRRFQMIPLDPKGT SQNDPNWVVR
 HQKELVQTVNCDPLAVGYDEFNAVD FSGTFF INTERDDDYAGFVFGYQSSSRFVVMWKQV TQSYWDT
 NPTRAQGYSGLSVKVNVSTTGPGEHLRNALWHTG NT PGQVRTLWHDP RH IGWKDF TAYRWRL SHRPKTGL
 IRVVMYEGKKIMADSGPIYDKTYAGGRLGLFV FSQEMVFFSDMKYECRDS

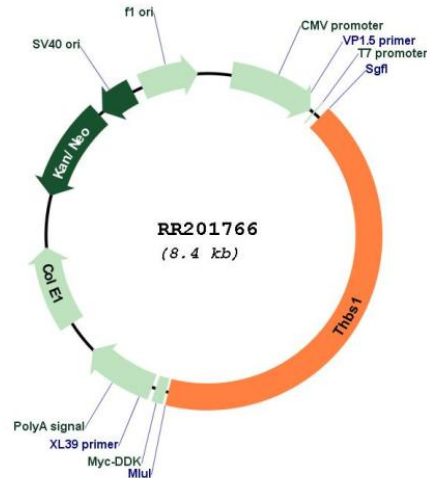
TRTRP LEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001013062

ORF Size: 3510 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_001013062.1](#), [NP_001013080.1](#)

RefSeq Size: 3734 bp

RefSeq ORF: 3513 bp

Locus ID: 445442

Cytogenetics: 3q35

MW: 129.7 kDa