

Product datasheet for MC224230

Tnks (NM_175091) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnks (NM_175091) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tnks
Synonyms:	4930554K12Rik; AI662855; ARTD5; C86528; D130072O21Rik; mTNKS1; TANK1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224230 representing NM_175091 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGCGTCGCGTCGCTCTCAGCATCATCACCACCATCATCAGCAACAGCTCCAGCCCGCCAGGGG
CTTCGGCTCCGCCACCGCCACCTCCCCGCGCTCAGCCCGGGCTTGGCCCGGGACCCACCCTGCCTC
GCCTACGCGCGGGCGCTGGCGCCCTTCGCTCCCGCGGCACGGCTGGCGCTGCCGGAGGGGATGGC
AGCCGGGACCCGCCGACAGGCCGCGATCTCCGACCCGGTGGACGGCGCGCTTGCACCGTGGCTGCTC
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CGGAACAACCTCCGCGTCGTCGCTTCTCCCGACTTCGCTTTCGCTTCTCCCGTCTCCCTGGC
TCGAGCTTAGCGGAGAGTCCCGAGGCGGGAGTTGGCTCCACGGCAACTTTGGGAGCCGGGGCGCGG
GCCTCGGCCCGGGGTCCAGCCGTGAGTGGGGCCCTGCGGGAGCTGCTCGAGGCCTGTCGGAATGGGA
CGTGTCCCGGTGAAGAGGTTGGTGGACGCCGCAACGTGAATGCCAAGGACATGGCCGGCCGAAAGTCT
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TGTGAGTCTGTTACTGTGCAAGGAGCAGATCCGAATGCCAGAGATAACTGGAACATACACCACTGCAT
GAAGCTGCCATTAAGGGAAAATTGATGTCTGTATTGTGCTGCTGCAGCACGGAGCCGATCCAAACATCC
GGAACACCGATGGGAAATCAGCTCTGGACCTGGCAGATCCTTCAGCAAAAGCTGCTCCTCACAGGTGAATA
CAAAAAAGACGAACTCCTAGAAGCTGCTAGGAGTGGTAATGAAGAAAACTAATGGCTTACTGACTCCT
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GAGTTCGGATAGTTCAGCTGCTTACAGCATGGTGTGATGTCCACGCGAAAGACAAAGGTGGACTTGT
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CTCATGAAACTGCATTGCACTGTGCTGTGGCCTCCTTGCATCCCAAACGAAAGCAGGTGGCAGAGCTGTT
 ACTGAGGAAGGGAGCCAAACGTCAACGAAAAGAACAAGGATTTTCATGACCCCTCTGCATGTTGCAGCTGAA
 AGAGCTCATAATGATGTCATGGAAGTTCTGCATAAGCACGGAGCAAAGATGAATGCACTGGATAGTCTTG
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 CCTTAAGAGCCTTGGCCTTGAGCACCTGAGGGACATTTTTGAAACAGAGCAGATTACGCTAGATGTGTTG
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 AGGGTGTGAAAGACTTTTAGGTGGACAACAAGGAACCAATCCATATTTGACTTTTCACTGTGTGAATCA
 GGGAACTATTTTGTAGATCTTGCTCCAGAAGATAAAGAATATCAATCAGTAGAAGAAGAGATGCAGAGC
 ACTATTCGAGAGCACAGAGACGGTGGAAACGCTGGCGGCATCTTCAACAGATAACAACGTCATTGGAATTC
 AGAAAGTTGTGAATAAGAAGCTGAGGGAGCGATTCTGCCACAGACAAAAGGAGGTGTCTGAGGAGAACCA
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 GATGAGCGACATGCGTACATTGGAGGGATGTTTGGAGCTGGAATTTACTTTGCTGAAAACCTCTCAAAAA
 GCAATCAGTATGTTTATGGAATTGGAGGAGGAACAGGCTGTCCACACACAAAGACAGATCATGTTATAT
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 ATGGCCCATGCACCCCAAGGCCATCACTCAGTCATCGGTAGACCAAGTGTCAATGGGCTGGCATATGCTG
 AATATGTCATCTACAGAGGGGAACAGGCATATCCAGAATATCTCATCACCTACCAGATCATGAAGCCAGA
 AGCCCTTTCACAGACCGCAACGGCAGCAGAGCAGAAGACCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_175091
- Insert Size:** 3963 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_175091.3](#), [NP_780300.2](#)

RefSeq Size: 6444 bp

RefSeq ORF: 3963 bp

Locus ID: 21951

UniProt ID: [Q6PFX9](#)

Cytogenetics: 8 21.16 cM

Gene Summary: Poly-ADP-ribosyltransferase involved in various processes such as Wnt signaling pathway, telomere length and vesicle trafficking. Acts as an activator of the Wnt signaling pathway by mediating poly-ADP-ribosylation (PARsylation) of AXIN1 and AXIN2, 2 key components of the beta-catenin destruction complex: poly-ADP-ribosylated target proteins are recognized by RNF146, which mediates their ubiquitination and subsequent degradation. Also mediates PARsylation of BLZF1 and CASC3, followed by recruitment of RNF146 and subsequent ubiquitination. Mediates PARsylation of TERF1, thereby contributing to the regulation of telomere length. Involved in centrosome maturation during prometaphase by mediating PARsylation of HEPACAM2/MIKI. May also regulate vesicle trafficking and modulate the subcellular distribution of SLC2A4/GLUT4-vesicles. May be involved in spindle pole assembly through PARsylation of NUMA1. Stimulates 26S proteasome activity.[UniProtKB/Swiss-Prot Function]