

Product datasheet for **MC223799**

Tnks2 (NM_001163635) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tnks2 (NM_001163635) Mouse Untagged Clone
Tag: Tag Free
Symbol: Tnks2
Synonyms: 5430432P15Rik; AA517131; A1662480; ARTD6; Tank2; TNKS-2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223799 representing NM_001163635
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCTGGCCGCCGCTGCGCCGGCGGGGGCGGGCCTGCGCGAGCGCCGGGGCCGAGGCCGTGGAGCCGT
CCGCCCGGAGCTGTTTCGAGGCTTGCCGCAACGGGGACGTGGAGCGAGTCAAGAGGCTGGTACGCCCGA
GAAGGTGAACAGCCGCGACACGGCGGGCAGGAAGTCCACCCCGCTCCACTTCGCCCGAGGTTTTGGACGG
AAGGATGTAGTTGAATATCTTCTTCAGAACGGTGCAAATGTGCAAGCGCTGATGATGGGGTCTTATTC
CTCTTCATAACGCATGCTCTTTGGTCATGCTGAAGTAGTCAATCTTCTTTTACAACACGGTGCAGACCC
AAATGCTCGGGATAATTGGAATTACTCCTCTCCATGAAGCTGCAATTAAGGAAAAATGATGTTTGC
ATTGTGCTTTTACAGCATGGAGCTGAGCCAACCATCCGAAATACAGATGGAAGGACAGCATTGGATTTAG
CAGACCCATCTGCCAAAGCTGTTCTGACTGGTACTATAAGAAAGATGAACCTCTGGAAAGTGCCAGGAG
TGGCAATGAGGAAAAATGATGGCCCTGCTTACACCATTGAATGTCAACTGCCATGCAAGTATGGCAGA
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TGAAGTAACTGAACCTCTGGTCAAGCACGGTGCCTGTGTGAATGCAATGGACCTGTGGCAGTTCACCTCT
CTTCATGAGGCAGCTTCTAAGAACAGGATTGAAGTATGTTCTCTCTCCTAAGTTACGGGCAGATCCAA
CCCTGCTGAACGTGCACAATAAAAGTGCTATAGACCTGGCCCCACGGCACAGCTGAAGGAAAGATTATC
GTATGAATTTAAAGGCCATTCAATTGCTGCAAGCTGCACGAGAAGCTGATGTTACAAGAATCAAAAAACAT
CTTTCTCTGAAATGGTGAATTTCAAACATCCTCAGACACATGAAACAGCACTGCATTGTGCTGCTGCAT
CTCCATATCCCAAAAGAAAGCAGATATGTGAAGTCTGCTCAGAAAGGGAGCAAACCAACGAAAAGAC
TAAAGAATCTTGACTCCTCTGCACGTGGCTTCTGAGAACGCTCACAATGATGTTGTTGAAGTAGTGGT
AAACATGAAGCAAAGTTAATGCTTTGGATAGTCTTGGACAGACGTCATTACACAGAGCTGCACACTGTG
GTCACCTGCAGACCTGCCGCTGCTCCTGAGCTATGGGTGTGATCAAACATCATATCCCTTCAGGGTTT
CACCGCCTTGAAATGGGAAATGAAATGTGCAGCAGCTGCTCCAAGAGGGCGCCTCACTAGGTCACCTCA
GAGGCGGACAGACAGCTGCTGGAAGCTGCAAAGCTGGTACGTTGAAACTGAAAAAACTCTGTACTG



TTCAGAGTGTCAACTGCAGAGACATTGAAGGACGCCAGTCAACCCCACTCCACTTTGCAGCTGGGTACAA
 CAGAGTGTCTGTGGTAGAATATCTGCTGCAACATGGAGCTGATGTTTCATGCTAAAGACAAAGGAGGTCTT
 GTACCTTTACACAATGCATGTTCTTATGGACACTATGAAGTTGCAGAACTTCTTGTCAAGCATGGAGCAG
 TAGTCAATGTGCGTGACTTGTGGAAGTTCACACCTTTACATGAAGCTGCAGCAAAAGGAAAAATGAAAT
 ATGCAAACTTCTACTCCAGCATGGTGCAGACCCACAAAGAAAAACAGAGATGGTAATACTCCTCTGGAT
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 CATGGAGCTGATGTAATGCCAGGACAAAGGAGGACTATTCCCTTACATAACGCAGCATCGTATGGAC
 ATGTAGATGTAGCAGCTTTGCTGATAAAGTACAATGCGTGTGTCATGCCACGGACAAATGGGCTTTCAC
 ACCGTTACATGAAGCAGCCAAAAGGGACGGACACAGCTTTGTGCTTTATTGTTGGCCCATGGAGCTGAT
 CCTACTCTAAAAATCAAGAAGGACAAACACCTTTAGATTTAGTTTCAGCAGATGATGTCAGTGCCTCT
 TGACAGCAGCCATGCCCCCTCTGCTCTGCCTACGTGCTACAAACCTCAAGTCTCAGTGGCGTGAGGGG
 CCCCAGGAGCCACTGCAGATGCTCTGCTTTCAGGTCCGTCAGCCATCCAGCCTCTCTGCAGCCAGCAGC
 CTCGCAACTTATCTGGCAGCTTCTCGGAAGTGTCCGAGTGGTTAGTTCAAGTGCAGCAGAAGGTGCTA
 CTGGTTTGCAAAAGAAAGAGGATTACAGGAATCGATTTTAGTATAACTCAGTTCATAAGGAACCTTGACT
 TGAGCACTTGATGGATATATTTGAGAGAGAACAGATTACCTTAGATGTCCTAGTTGAAATGGGCCACAAG
 GAACTGAAAGAGATTGGAATCAATGCCTATGGACATCGACACAAGCTGATTAAGGAGTTGAAAGGCTGA
 TCTCTGGACAACAAGGTCTTAATCCATATTTAACTCTAAACAACCTCTGGTAGTGAACAATTCTCATAGA
 TCTGTCTCCTGATGATAAAGAATTTTCAGTCTGTGGAAGAAGAGATGCAGAGTACTGTGCGGGAGCACAGA
 GATGGTGGTCACGCAGGCGGCTTCAACAGATACAACATTCTCAAGATTCAGAAGGTTTGTAAACAAGA
 AATTGTGGGAAAGATATACACCCGGAGAAAAGAAAGTTTCTGAAGAAAACCACAACCATGCAACGAAAG
 GATGTTATTTTCATGGGTCTCCTTTTGTGAATGCGATTATCCATAAGGGCTTTGATGAAAGGCATGCATAC
 ATAGGTGGCATGTTTGGAGCTGGAATTTATTTTGTGCTGAGAAGTCTTCCAAAAGCAATCAATATGTGTATG
 GAATTGGAGTGGCACCCGATGTCCAATTCACAAAGACAGATCGTGTACATTTGTCACAGGCAGCTGCT
 GTTTTGTGAGTAACTTGGGAAAGTCTTTCTTGCAGTTCAGCGCAATGAAAATGGCACATTCTCCTCCC
 GGCCATCACTCGTCACTGGCCGGCCAGTGAATGGCCTAGCATTAGCTGAATATGTTATTTACAGAG
 GAGAACAGGCTTATCCTGAATATCTAATTACTTACCAGATTGTAAGGCCTGAAGGTATGGTTGATGGCTG
 A

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001163635
- Insert Size:** 3501 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_001163635.1](#), [NP_001157107.1](#)

RefSeq Size: 6503 bp

RefSeq ORF: 3501 bp

Locus ID: 74493

UniProt ID: [Q3UES3](#)

Cytogenetics: 19 C2

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 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 poly-ADP-ribosylation of BLZF1 and CASC3, followed by recruitment of RNF146 and subsequent ubiquitination. Mediates poly-ADP-ribosylation of TERF1, thereby contributing to the regulation of telomere length. Stimulates 26S proteasome activity.[UniProtKB/Swiss-Prot Function]