

Product datasheet for MR215283

Tnks2 (NM_001163635) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnks2 (NM_001163635) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tnks2
Synonyms:	5430432P15Rik; AA517131; AI662480; ARTD6; Tank2; TNKS-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR215283 representing NM_001163635 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGCCCGCTGCGCCGGCGGGGCGGGCCTGCGCGAGCGCCGGGCGGAGGCCGTGGAGCCGT
CCGCCCGAGCTGTTTCGAGGCTTGCCGCAACGGGGACGTGGAGCGAGTCAAGAGGCTGGTACGCCCGA
GAAGGTGAACAGCCGCGACACGGCGGGCAGGAAGTCCACCCGCTCCACTTCGCCCGAGTTTTGGACGG
AAGGATGATGTTGAATATCTTCTCAGAACGGTGCAAATGTCAAGCGCGTGATGATGGGGTCTTATTC
CTTTCATAACGCATGCTTTTTGGTCATGCTGAAGTAGTCAATCTTCTTTTACAACACGGTGCAGACCC
AAATGCTCGGGATAATTGGAATTAATCCTCTCCATGAAGCTGCAATTAAGGAAAAATTGATGTTTGC
ATTGTGCTTTTACAGCATGGAGCTGAGCCAACCATCCGAAATACAGATGGAAGGACAGCATTGGATTTAG
CAGACCCATCTGCCAAAGCTGTTCTGACTGGTACTATAAGAAAGATGAACCTTCTGGAAAGTGCCAGGAG
TGGCAATGAGGAAAAATGATGGCCCTGCTTACACCATTGAATGTCAACTGCCATGCAAGTATGGCAGA
AAGTCAACTCCATTGCATTTGGCAGCAGGATACAACAGAGTAAAAATGTACAACGTTACTGCACCATG
GGGCTGATGTCATGCTAAAGATAAAGGGGATCTGGTACCACTACACAATGCCTGCTCTTACGGTCATTA
TGAAGTAACTGAACCTTCTGGTCAAGCACGGTGCCTGTGTAATGCAATGGACCTGTGGCAGTTCACCTCT
CTTCATGAGGCAGCTTCTAAGAACAGGATTGAAGTATGTTCTCTCCTAAGTTACGGGGCAGATCCAA
CCCTGCTGAAGTGTACAAATAAAAGTGCTATAGACCTGGCCCCACGGCACAGCTGAAGGAAAGATTATC
GTATGAATTTAAAGGCCATTCTTGGTCTGCAAGCTGCACGAGAAGCTGATGTTACAAGAATCAAAAAACAT
CTTTCTCTGGAATGGTGAATTTCAAACATCCTCAGACACATGAAACAGCACTGCATTGTGCTGCTGCAT
CTCCATATCCCAAAGAAAGCAGATATGTGAAGTCTGCTCAGAAAGGGAGCAAACCAACGAAAAAGAC
TAAAGAATTTGACTCCTCTGCACGTGGCTTCTGAGAACGCTCACAATGATGTTGTTGAAGTAGTGGT
AAACATGAAGCAAAGGTTAATGCTTTGGATAGTCTTGGACAGACGTCATTACACAGAGCTGCACACTGTG
GTCACCTGCAGACCTGCCGCTGCTCCTGAGCTATGGGTGTGATCCAAACATCATATCCCTTCAGGGTTT
CACCGCTTGAATGGGAAATGAAATGTGCAGCAGCTGCTCCAAGAGGGCGCCTCACTAGGTCACCTCA



[View online »](#)

GAGGCGGACAGACAGCTGCTGGAAGCTGCAAAGGCTGGTGACGTTGAAACTGTAAAAAACTCTGTACTG
TTCAGAGTGTCAACTGCAGAGACATTGAAGGACGCCAGTCAACCCCACTCCACTTTGCAGCTGGGTACAA
CAGAGTGTCTGTGGTAGAATATCTGCTGCAACATGGAGCTGATGTTTCATGCTAAAGACAAAGGAGGTCTT
GTACCTTTACACAATGCATGTTCTTATGGACACTATGAAGTTGCAGAACTTCTTGCAAGCATGGAGCAG
TAGTCAATGTGCTGACTTGTGGAAGTTCACACCTTTACATGAAGCTGCAGCAAAAGGAAAAATATGAAAT
ATGCAAACTTCTACTCCAGCATGGTGCAGACCTACAAAGAAAAACAGAGATGGTAATCTCCTCTGGAT
CTTGTTAAAGATGGAGATACAGATATTTCAAGATCTACTTAGAGGTGATGCAGCTTTGCTGGATGCGCA
AGAAGGGTTGTTTAGCCAGAGTGAAGAAATTGTCTTCTCCTGATAATGTAATTTGCCGTGATACCCAAGG
TCGGCATTCTACACCTTTACATTTGGCAGCTGGTTATAATAAATTGGAAGTTGCTGAGTATTTATTGCAA
CATGGAGCTGATGTAATGCCAGGACAAAGGAGGACTCATTCTTTACATAACGCAGCATCGTATGGAC
ATGTAGATGTAGCAGCTTTGCTGATAAAGTACAATGCGTGTGCAATGCCACGGACAAAATGGGCTTTAC
ACCGTTACATGAAGCAGCCAAAAGGGACGGACACAGCTTTGTGCTTTATTGTTGGCCCATGGAGCTGAT
CCTACTCTAAAAATCAAGAAGGACAAACCTTTAGATTTAGTTTCAGCAGATGATGTCAGTGCACCTCT
TGACAGCAGCCATGCCCCCTCTGCTCTGCTACGTGCTACAAACCTCAAGTGTCAAGTGGCGTGAGGGG
CCCCGGAGCCACTGCAGATGCTCTGCTTTCAGGTCGTCAGCCATCCAGCCTCTCTGCAGCCAGCAGC
CTCGACAACCTTATCTGGCAGCTTCTCGAACTGTCCGCAGTGGTTAGTTCAAGTGCAGCAGAAGGTGCTA
CTGGTTTGCAAAGAAAAGAGGATTCAGGAATCGATTTTAGTATAAAGTTCAGTTCATAAGGAACCTTGACT
TGAGCACTTGATGGATATATTTGAGAGAGAACAGATTACCTTAGATGTCCTAGTTGAAATGGGCCACAAG
GAACTGAAAGAGATTGGAATCAATGCCTATGGACATCGACACAAGCTGATTAAGGAGTTGAAAGGCTGA
TCTCTGGACAACAAGGTCTTAATCCATATTTAACTCTAAACAACCTCTGGTAGTGGAAACAATTCTCATAGA
TCTGTCTCCTGATGATAAAGAATTTCAAGTCTGTGGAAGAAGAGATGCAGAGTACTGTGCGGGAGCACAGA
GATGGTGGTACGCAGGCGGCTCTTCAACAGATACAACATTCTCAAGATTCAGAAGTTTGTAAACAAGA
AATTGTGGGAAAGATATACACACCGGAGAAAAGAAGTTTCTGAAGAAAACCACAACCATGCAAACGAAAG
GATGTTATTTTCATGGGTCTCCTTTTGTGAATGCGATTATCCATAAGGGCTTTGATGAAAGGCATGCATAC
ATAGGTGGCATGTTTGGAGCTGGAATTTATTTTGTGAGAACTCTTCAAAGCAATCAATATGTGTATG
GAATTGGAGGTGGCACCGGATGTCCAATTCACAAAGACAGATCGTGTACATTTGTACAGGCAGCTGCT
GTTTTGTGAGTAACCTTGGGAAAGTCTTTCTTGCAGTTCAGCGCAATGAAAATGGCACATTCTCCTCCC
GGCCATCACTCGGTCACTGGCCGGCCAGTGAATGGCCTAGCATTAGCTGAATATGTTATTTACAGAG
GAGAACAGGCTTATCCTGAATATCTAATTACTTACCAGATTGTAAGGCCTGAAGGTATGGTTGATGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215283 representing NM_001163635
Red=Cloning site Green=Tags(s)

```

MSGRRCAGGGAACASAGAEAVEPSARELFEACRNGDVERVKRLVTPEKVNSRDTAGRKSTPLHFAAGFGR
KDVEYELLQNGANVQARDDGGLIPLHNACSFGHAEVNVLLLQHGADPNARDNWNYPLEAAIKGKIDVC
IVLLQHGAETIRNTDGRALDLADPSAKAVLTGDYKKDELLESARSGNEEKMMALLTPLNVNCHASDGR
KSTPLHLAAGYNRVKIVQLLLHHGADVHAKDKGDLVPLHNACSYGHYEVESELLVKGACVNAMDLWQFTP
LHEAASKNRIEVCSSLLSYGADPTLLNCHNKSAILDLPTAQLKERLSYEFKGSLLQAAREADVTRIKKH
LSLEMVNFKHPQTHETALHCAAASPYPKRQICELELLRKGANTNEKTEFLTPLHVASENAHNDVVEVVV
KHEAKVNALDSLQOTSLHRAAHCGLQTCRLLLSYGCDPNIISLQGFALQMGNENVQQLQEGASLGHS
EADRQLLEAAKAGDVETVKKLCTVQSVNCRDIEGRQSTPLHFAAGYNRVSVVEYLLQHGADVHAKDKGGL
VPLHNACSYGHYEVAELLVKGAVVNVADLWKFPLHEAAAKGKYEICKLLLQHGADPTKKNRDGNTPLD
LVKDGDTDIQDLLRGAALLDAKKGCLARVKKLSSPDNVNCRDTQGRHSTPLHLAAGYNNLEVAEYLLQ
HGADVNAQDKGGLIPLHNAASYGHVDVAALLIKYNACVNATDKWAFPLHEAAQKGRQQLCALLLAHGAD
PTLKNQEGQTPLDLVSADDVSALLTAAMPSPALPTCYKPQVLSGVRGPGATADALSSGPSSPSSLSAASS
LDNLSGSFSELSAVVSSAAEGATGLQRKEDSGIDFSITQFIRNLGLEHLMIDIFEREQITLDVLEVEMGHK
ELKEIGINAYGHRHKLKIGVERLISGQQGLNPYLTLNNSGSGTILIDLSPDDKEFQSVVEEMQSTVREHR
DGGHAGGVFNRYNLIKIQVCNKKLWERYTHRRKEVSEENHNHANERMLFHGSPFVNAIIHKGFDERHAY
IGGMFAGIYFAENSSKNQYVYIGGGTGCPIHKDRSCYICHRQLFCRVTLGKSFLQFSAMKMAHSP
GHHSVTGRPSVNLALAEYVIYRGEQAYPEYLITYQIVRPEGMVDG
  
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9035_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

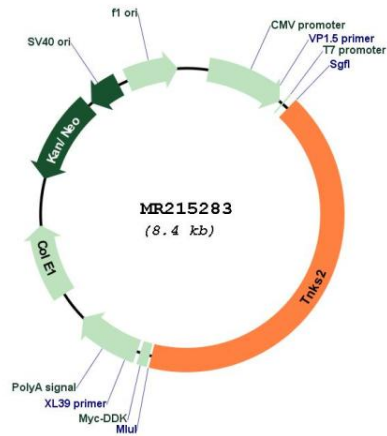


ACCN: NM_001163635

ORF Size: 3498 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:	<ol style="list-style-type: none"> 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
MW:	127.2 kDa
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]

Product images:



Circular map for MR215283