

## Product datasheet for **MR210100**

### **Tns4 (NM\_172564) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tns4 (NM_172564) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tns4
Synonyms:	9930017A07Rik; AA589547; AU016405; Cten
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MR210100 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCAGCTCTCTGCTGGCTGGAGGTCACATGGTCAGCTTGACTCCCTGTGAGGAATCCAGGATGGCCC  
 TGCACCCAACCCCGAGCCTGGCCTCCCAGCTCTGTGTCCTTACTACACCACAGAGAGCTGGGGAACCCA  
 GCCTCTGATGGCCCCACACTCCGCAAAGGCAGCTCCGACAGGCTCCAGCAGGCCAGCAGGCTGAAGCC  
 AGAGCTCACTGCCTCCTCAGGGCCTGGGGAGCAGGCCCTCAGGGCCTCGCAGGATCTGGAATCTTGCA  
 TTGACTTCTCCCTGGAGGCCCTCAACCAGATGATCCTAGAGATCGACCCTACTTTCCAGTTACTTCCCTC  
 TGGGACTGCTGGTCCCAGGCTGAGTCTACCAACAGTATCATGTCAAGGAACAAGAAGGAGGAACCCGAA  
 GCCTTAGATAAAAGTACATCGAAGTGACCTCCACCAGATCAAGATACCTTGACGGTCCCCAACGCTGCT  
 CCAGCCGTGTGCCACCCACCATTGGCTCCCCGCGCAGTGGCAGCCTTCTCTCCAGGACATCCC  
 CCGAGAGACCCGACGAGCAGCAACGAGAGCCTCATCTTCTGGAACAGGGCAGGGTCCCTCTCTCT  
 CTACCCCTTCTCCCTTAGCAATGCCATCCCTTGCCGAGAAAGCAGGACCTCCGGCTCTCCACTGGCAA  
 CTCTCCAGGCTGGGAGAAAGGGCTCAGGGCCCCACAGCGGGGCAGCAGGGTCTCTATACTGTACGCCAG  
 CCCTGTATCGGATGTCAGCTATGTTTGGGAAGCAATCAGTCCCTCCCCACTCAAGCCTCTCCAGCTAT  
 CCGTCACTTCTAGATCCTTGGGAAGTCCAGCCAGCTCATCTCCAGCCTCCACAGCCTGGACCGAGGGT  
 CTCAGTGTGGGAGACCTAGTGTGCCAGGCTCCTAGTAACCCATACTGGGCATGGGCCAGCCCCAAGC  
 AGTGCAGTCTACTCCAGTGGCTAAGGAGCAGGCTAGTAGCTGCCCCGATCTGTCAACCACTCCATGGCG  
 GACATACCCATAGTGTCTCATCAATGGGAGCCCAGAACCACAGTCTCCCCAGCCCAGCGGACACCCAGGAC  
 ACCAGGACTCTGCCAGTCCAGTCTAGGGTTACATCTCCAGCCACCTCTGTCAAGCCATTAAGAGCCCCAGCAA  
 GACTCTGCCAGATGTTCTCTCCCTGCATCTCCAGATGGTCTGCAAGGACATGCAGCCACCATGAAG  
 TTCGTGATGGACACATCAAAGTATTGGTTAAGCCAAGCATCACTCGAGAGCAAGCAATCAATCTCTGA  
 GGACGGAGAAGCCGGTGCCTTTGTCTCAGGGACAGTTCCTCTACAGAGGCTCCTTGGCCTTGCCT  
 GAAGGTACAGGAGACTTCCGCATCTGCTCAAACCGACCAGGCGAGGACAGCAGTGACCTTATCCGTAC  
 TTCCTGATTGAGTCTTGGCCAAAGGAGTACATCTGAAAGGAGCAGATGAGGAGCCCTACTTTGGGAGCC  
 TCTTCTCTCGTGTGCCAGCACTCCATTATGGCCCTGGCCCTGCCCTGCAAACTCACCATCCACAGAA  
 AGAACTGGGAGGTGCAGAGCCAGCATCGGACTCCCCACACACGGCCAGACCTCCTGCCTGAAGATATCA  
 GCCGGTTGCCACACACTGTACCTGAGTTCTGTGAGTGTGGAGACCCTGAGCGGAGCCCTGGCTGTGCAGA  
 AGGCTATCTCAGTCATCTTGGAGAGGGATGTCTCCCCACACCCACTGTGTCCTTCAAAGTCACTGA  
 ACAGGGCATTACTCTGACAGACGTCAAAGGAAGGTGTTCTTCCGACGGCACTACCCACTCAGCGCCCTC  
 CGCTTCTGTGGAATGGACCCGAGCAACGGAAGTGGCAGAAGTACTGCAAGCCTTCCAGGATCTTTGGGT  
 TTGTGGCCAAGAGCCAGACAGAACCACAAGAGAACGTGTGCCACCTTTCGACAGTACGATGCGGTCCA  
 GCCAGTCTCCAGGTCATCAGCCTAGTACTGCTCTGCTTCCAGGACACAGAAAGGATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210100 protein sequence  
Red=Cloning site Green=Tags(s)

MSSSLLAGGHMVSLTPCEESRMALHPTSPGLPALCPYYTTESWGTQPLMAPTLRKGSSDRLQQAQAEAA  
 RAHCLLQGPGEQASGASQDLESCIDFSLEALNQMLEIDPTFQLLPSTAGPQAESTNSIMSRNKKEEPE  
 ALDIKYEIVTSTRSRYLDGPQRCSPPCATPPFGSPRSGSLFLSRDIPRETRSSSNESLIFSGNQGRGSP  
 LTPSSLNAIPCRESRSTSGSPLATPPGWEKGLRAPQRGSRVILSASPVSVDVSYVFGSNQSLPHSSLS  
 PSSSRSLGSPASSSSSLHSLDRGSQCGRPSDAQAPSNPILGMGQPQAVQSTPVAKEQASSCPASVTNSMA  
 DIPIVLINGSPEPQSPPAQRTPGHQDSVQSRVTSPSHLQQAIKSPSKTLPDVPLPASPDGPAKDMQPTMK  
 FVMDTSKYWFKPSITREQAINLLRTEKPGAFVIRDSSSYRGSFGLALKVQETSASAPNRPGEDSSDLIRH  
 FLIESSAKGVHLKGADEEYPFGSLSSFVQHSIMALALPCKLTIPQKELGGAEPASDSPHTHGQTSCLKIS  
 AGCHTLYLSSVSVETLSGALAVQKAI SVILERDVLPTPTVVHFKVTEQGITLTDVQRKVFRRHYPLSAL  
 RFCGMDPEQRKWQKYCKPSRIFGFVAKSQTEPQENVCHLFAEYDAVQPASQVIVSLVTALLQDTERM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_172564

**ORF Size:** 2091 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\\_172564.1](#), [NM\\_172564.2](#), [NM\\_172564.3](#), [NP\\_766152.1](#), [NP\\_766152.2](#)

**RefSeq Size:** 4755 bp

**RefSeq ORF:** 2091 bp

**Locus ID:** 217169

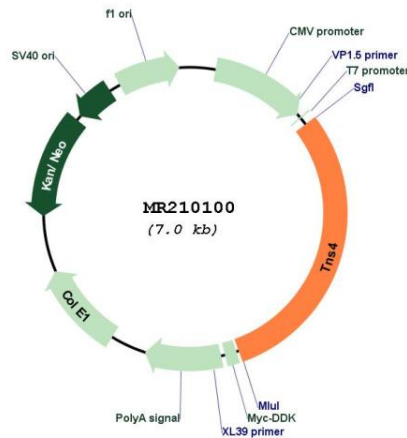
**UniProt ID:** [Q8BZ33](#)

**Cytogenetics:** 11 D

**MW:** 74.6 kDa

**Gene Summary:** May be involved in cell migration, cartilage development and in linking signal transduction pathways to the cytoskeleton May promote apoptosis, via its cleavage by caspase-3. Cytoplasm, cytoskeleton.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR210100