

Product datasheet for **MR218031**

Tlx2 (NM_009392) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tlx2 (NM_009392) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tlx2
Synonyms:	Enx; Hox11L1; Hox11l1; NCX; Ncx1; Tlx1l1; Tlx1l2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR218031 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCCGGGTGTGGCTGCGCACCACCTCCGCACCACGAACCCATCAGCTTCGGCATCGATCAGA
TCCTGAGCGGTCCCGAACCCCGGGGGCGGTCTGGGTCCCGGTCAGTCGGGCCAGAGCCACGGAGAAAG
TGCGGCGTTTTCCAGTGGATTCCACGGAGCCTCGGGCTATGCTCCAGCCGGCTCGCTGGCCTCCTTGCT
AGAGGCTCGGGAGTGGGCCCCGGCGCGTGATCCGCGTCCCCGCGCACCGCCCGTGCCCGTGCCGCCAC
CCTCGGGTGGGCCCCCGCGTGCCCGGACCCTCTGGTTTGGGTGGCGCCGGGGGCTAGCGGGACTCAC
CTTCCCTGGATGGACAGCGGCCCGCTTTGCAAAGGACAGGCTCACGGCTGCGCTCTCGCCCTTCTCT
GGGACACGTCGCATAGGCCATCCCTACCAAAACCGGACCCCGGAAAGCGCAAGAAGCCGCGCACCTCCT
TTTCCCGCTCGCAGGTGCTGGAGCTGGAGCGCCGCTTCTTGCGCCAGAAGTACCTGGCCTCCGCAGAGAG
GGCGGCGCTGGCAAGGCCCTGCGCATGACGGACGCGCAGGTCAAGACCTGGTTCAGAACCAGCAGCACC
AAGTGGCGGCCAGACCGCGGAGGAGCGGAGGCCGAGCGGCACCGCGTGGTCCGCTGCTGCTGCACC
TGCAGCAAGACGCGCTGCCCGGCCGCTGCGGCCACCGCTGCCACCGACCCGCTTTGCCTGCACAACTC
GTCGCTCTCGCGCTGCAGAATCTGCAGCCCTGGCGGGAAGACAACAAGGTGGCTTCGGTGTCCGGGCTC
GCCTCGGTGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218031 protein sequence
Red=Cloning site Green=Tags(s)

MEPAVLAHHLPHEPISFGIDQILSGPEPPGGGLGPGQSGQSHGESAAFSSGFHGASGYAPAGSLASLP
 RGSVGPGGVIRVPAHRPLPVPPPSGAAPVPGPSGLGGAGLAGLTFPWMDSGRRFAKDRLTAALSPFS
 GTRRIGHPYQNRTPPKRKKPRTSFSRSQVLELERRFLRQKYLASAERAALAKALRMTDAQVKTWFQNRRT
 KWRRQTAEEREERHRAGRLLHLHQDALPRPLRPPLPPDPLCLHNSSLFALQNLQPWAEDNKVASVSGL
 ASVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009392

ORF Size: 852 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_009392.2](#), [NP_033418.1](#)

RefSeq Size: 1434 bp

RefSeq ORF: 855 bp

Locus ID: 21909

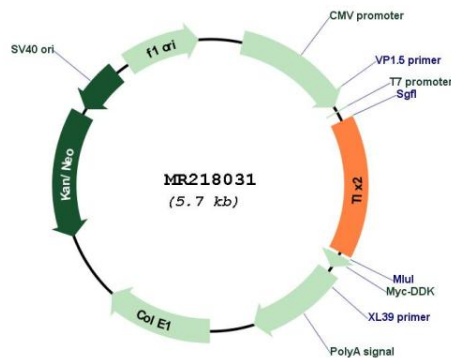
UniProt ID: [Q61663](#)

Cytogenetics: 6 35.94 cM

MW: 30.4 kDa

Gene Summary: Transcription activator that binds DNA elements with the consensus sequence 5'-CGGTAATTGG-3'. Binds DNA via its homeobox. Required for normal cell death of enteric neurons in the gastrointestinal tract. Required for normal development of the enteric nervous system, and for proper development of normal motility of the gastrointestinal tract. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218031