

Product datasheet for RC224215

HOX11 (TLX1) (NM_005521) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOX11 (TLX1) (NM_005521) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HOX11
Synonyms:	HOX11; TCL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224215 representing NM_005521 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGCACCTGGGTCCGCACCACCTCCACCGGGTCACGCAGAGCCATTAGCTTCGGCATCGACCAGA
 TCCTCAACAGCCCGACAGGGTGGCTGCATGGGACCCGCCTCGCGCCTCCAGGACGGAGAATACGGCCT
 TGGCTGCTTGGTCGGAGGCGCTACACTTACGGCGCGGGGGCTCCGCGCCGCGACGGGGGCTGGAGGA
 GCGGGGGCCTATGGTACTGGAGGTCCCGCGGCCCGGAGGCCCGGCAGGCGGCGGCGCGCTGCAGCA
 TGGGTCTCTGACCGGCTCCTACAACGTGAACATGGCCTTGGCAGGCGGCCCCGGTCTGGCGGCGCGG
 CGGCAGCAGCGCGGTGCGGGGCACTACGCGCTGCGGGGTAATCCGGGTGCCGCGACACAGGCCGCTC
 GCCGGAGCCGTGGCCACCCCCAGCCCCCTGGCCACCGGCTTGCCACCGTGCCCTCTGTGCTGCCATGC
 CGGGCGTCAACAACCTCACTGGCCTCACCTTCCCTGGATGGAGAGTAACCGCAGATACACAAAGGACAG
 GTTCACAGGTACCCCTATCAGAACCGGACGCCCCCAAGAAGAAGAAGCCGCGCACGTCTTCACACGC
 CTGCAGATCTGCGAGCTGGAGAAGCGCTTCCACCGCCAGAAGTACCTGGCTCGGCCGAGCGCGCGCCC
 TGGCCAAGGCGCTCAAAATGACCGATGCGCAGGTCAAACTGGTTCCAGAACGGCGGACAAAGTGGAG
 ACGGCAGACTGCGGAGGAACGGGAGGCCGAGAGGCAGCAAGCGAACCGCATCCTCCTGCAGTTGCAGCAG
 GAGGCCCTCCAGAAGAGCCTGGCACAGCCGCTGCCGCCGACCCCTCTGTGCGTGCACAACTCGTCGCTCT
 TCGCCCTGCAGAACTGCAGCCGTGGTCTGACGACTCGACCAAAATCACTAGCGTCACGTGCGTGGCGTC
 GCCTGCGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC224215 representing NM_005521
 Red=Cloning site Green=Tags(s)

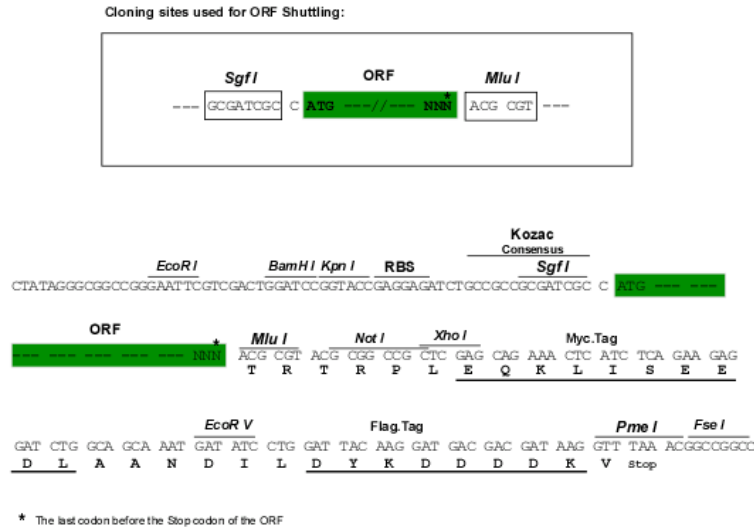
MEHLGPHHLHPGHAEPISFGIDQILNSPDQGGCMGPASRLQDGEYGLGCLVGGAYTYGGGGSAAATGAGG
 AGAYGTGGPGGGPAGGGGACSMGPLTGSYNVNMALAGGPGGGGGSSGGAGALSAAGVIRVPAHRPL
 AGAVAHQPQPLATGLPTVPSVPAMPGVNNLTGLTFPWMESENRRYTKDRFTGHPYQNRTPPKKKKPRTSFTR
 LQICELEKRFHRQKYLASAERAALAKALKMTDAQVKTWFQNRRTKWRRQTAEEREAEERQQANRILLQLQQ
 EAFQKSLAQPLPADPLCVHNSSLFALQNLQPWSDSTKITSVTSVASACE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2994_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005521

ORF Size: 990 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_005521.4](#)

RefSeq Size: 2898 bp

RefSeq ORF: 993 bp

Locus ID: 3195

UniProt ID: [P31314](#)

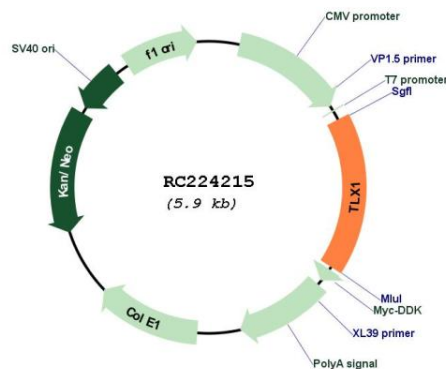
Cytogenetics: 10q24.31

Domains: homeobox

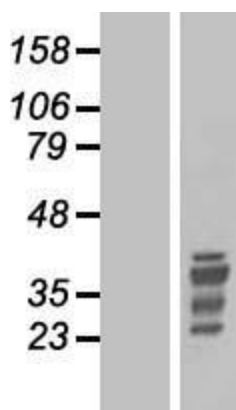
MW: 34.2 kDa

Gene Summary: This gene encodes a nuclear transcription factor that belongs to the NK-linked or NK-like (NKL) subfamily of homeobox genes. The encoded protein is required for normal development of the spleen during embryogenesis. This protein is also involved in specification of neuronal cell fates. Ectopic expression of this gene due to chromosomal translocations is associated with certain T-cell acute lymphoblastic leukemias. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2010]

Product images:



Circular map for RC224215



Western blot validation of overexpression lysate (Cat# [LY417248]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224215 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).