

Product datasheet for **RC205957**

RHOXF2 (NM_032498) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RHOXF2 (NM_032498) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RHOXF2
Synonyms:	CT107; PEPP-2; PEPP2; THG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205957 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCTCCGGACCAAGTGTAGCCAGTATATGACCAGCTTGCTCAGCCCTGCAGTCGACGACGAGAAAG
AACTACAGGATATGAATGCTATGGTGCTGTCGCTTACTGAAGAGGTCAAAGAGGAGGAAGAGGATGCACA
GCCTGAGCCTGAGCAAGGCACAGCAGCAGGAGAGAAAGTTAAAGTCGGCAGGAGCCCAAGGCGGAGAAGAA
AAAGATGGCGGCGGAGAAGAAAAAGATGGCGGCGCGCCGGAGTTCCTGGCCACCTATGGGAAGGAGACC
TCGAGGGCACCAGCGGCAGCGATGGCAACGTTGAGGACAGCGACCAGAGCGAGAAGAACCTGGGCAGCA
GTATTCGCGGCCACAGGGCGCCGTCGGGGGGCTGGAGCCTGGCAACGCGCAGCAGCCCAACGTCCACGCC
TTCACCCCATTTGAGCTGCAGGAGCTGGAGCGCATTTTCCAACGCGAGCAGTTCCCCAGTGAGTTCTGTC
GAAGGAGGCTGGCAAGAAGCATGAATGTGACTGAACTCGCAGTGCAGATTTGGTTTGAGAATAGAAGAGC
CAAATGGAGGAGACATCAGAGGGCATTAAATGGCAAGAAACATGCTGCCCTTCATGGCAGTGGGCCAGCCT
GTCATGGTAACCGCAGCTGAGGCCATAACGGCACCCCTTGTTTCATCAGCGGGATGAGAGATGATTACTTCT
GGGACCACAGCCATTCCAGCAGCCTGTGTTTCCCATGCCACCCCTTCTCCTCCGTCCTTGCCCTTCC
ACTCATGCTTCTTCCACCTATGCCACCCGCTGGCCAGGCTGAATTTGGCCATTCCCTTTTGTTATCGTG
CCTTCTTTCACATTCCCAATGTC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205957 protein sequence
 Red=Cloning site Green=Tags(s)

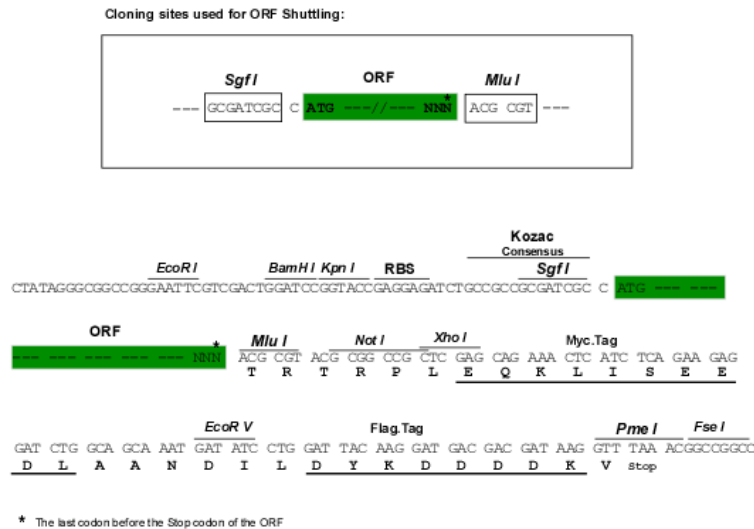
MEPPDQCSQYMTSLLSPAVDDEKELQDMNAMVLSLTEEVKEEEEDAQPEPEQGTAAAGEKLKSAGAQQGEE
 KDGGGEEKDGGGAGVPGHLWEGDLEGTSGSDGNVEDSDQSEKEPGQYSRPGAVGGLEPGNAQQPNVHA
 FTPLQLQELERIFQREQFPSEFLRRRLARSMNVTELAVQIWFENRRAKWRRHQALMARNMLPFMAVGQP
 VMVTAAEAITAPLFISGMRDDYFDHSHSSSLCFMPPFPFPPSLPLMLLPPMPAPQAEFGPFPFVIV
 PSFTFPNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6319_c11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032498

ORF Size: 864 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_032498.3](#)

RefSeq Size: 1297 bp

RefSeq ORF: 867 bp

Locus ID: 84528

UniProt ID: [Q9BQY4](#)

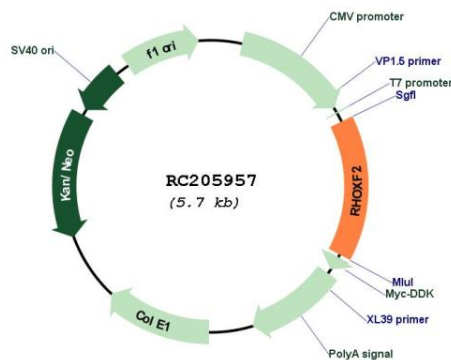
Cytogenetics: Xq24

Protein Families: Transcription Factors

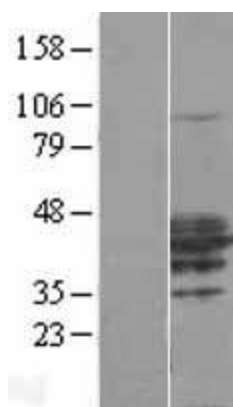
MW: 31.7 kDa

Gene Summary: This gene, which encodes a transcriptional repressor, is one of two paralogous X-linked homeobox-containing genes and is highly expressed in a variety of cancers. In addition, the encoded protein associates with the cell membrane and with microtubules, and is concentrated at the leading edge of migratory cells. [provided by RefSeq, Dec 2015]

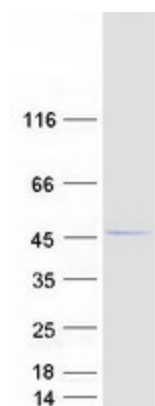
Product images:



Circular map for RC205957



Western blot validation of overexpression lysate (Cat# [LY410076]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205957 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RHOXF2 protein (Cat# [TP305957]). The protein was produced from HEK293T cells transfected with RHOXF2 cDNA clone (Cat# RC205957) using MegaTran 2.0 (Cat# [TT210002]).