

Product datasheet for RC204552

HEXIM2 (NM_144608) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HEXIM2 (NM_144608) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HEXIM2
Synonyms:	L3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204552 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGCCACTCCGAACCAGACCGCCTGTAATGCAGAGTCACCAGTGGCCCTGGAGGAGGCCAAGACCT
CTGGTGCCCGGGGAGCCCCAAACACCCCTGAGCGTCATGACTCTGGTGGTTCCTGCCCTGACACC
GCGGATGGAGAGCCACTCAGAGGATGAAGATCTTGCTGGGGCTGTCGGTGGCCTGGGCTGGAACAGTAGG
AGTCCCCGGACCCAGAGCCAGGGGGCTGCTCAGCGGAGGCTGTGCTGGCCCGAAGAAACACCGTCGGC
GGCCATCGAAGCGCAAAGGCCTGGCGACCCTACCTGGAGCTGAGCTGGGCTGAGAAACAACAGCGGGA
TGAGAGGCAGAGCCAGAGGGCCTCCCGGTCCCGGAAGAGATGTTGCGCAAAGGCCAGCCCGTGGCCCC
TACAACACCACCCAGTTCCTGATGAATGACAGGGACCCGGAGGAGCCCAACTGGATGTGCCCATGGGA
TCTCCCACCCAGGTTCCAGTGGGGAGAGTGAGGCCGGGGACAGTGATGGGCGGGCCGAGCGCACGGTGA
GTTCCAGCGGAAGGACTTCTCTGAGACTTACGAACGCTTCCACACCGAGAGCCTGCAGGGCCGACGCAAG
CAGGAGCTGGTGCAGACTACCTGGAGCTGGAGAAGCGGCTGTGCGAGGCGGAGGAGGAGACTAGGAGGC
TGCAGCAGCTGCAGGCGTGACCCGGCCAGCAGTCTGCCCCAGGTGGAGGAGCTGGCTGCCGAGGTCCA
GAGGCTCCGGACCGAAAACCCAGCGGCTTCGTGAGGAGAACAGATGTGGAACCGAGAGGGCTGCCGCTGT
GATGAGGAGCCGGGTACC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204552 protein sequence
Red=Cloning site Green=Tags(s)

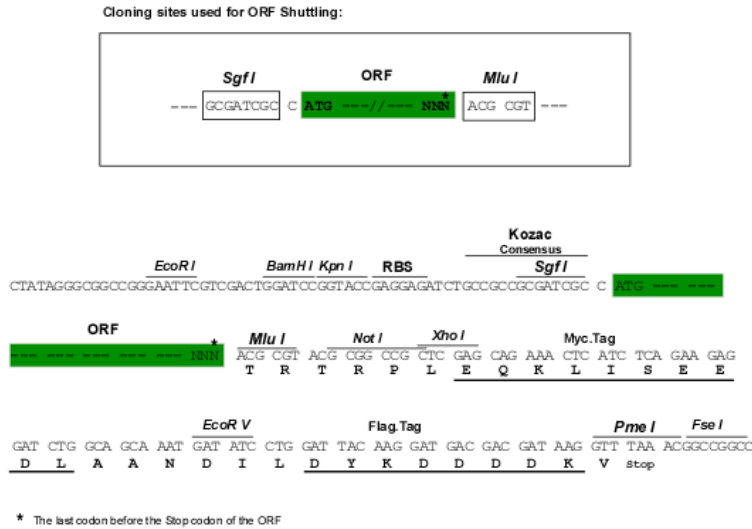
MMATPNQTACNAESPVALEEAKTSGAPGSPQTPPERHDSGGSLPLTPRMESHSEDEDLAGAVGGLGWNSR
 SPRTQSPGGCSAEAVLARKKHRRRPSKRKRHWRYLELSWAEQQRDERQSQRASRVREEMFAKGQPVAP
 YNTTQFLMNRDPPEPNLDVPHGISHPGSSGESEAGDSGRGRAHGEFQRKDFSETYERFHTESLQGRSK
 QELVRDYLELEKRLSQAEETRRLLQQLQACTGQQSCRQVEELAAEVQRLRTENQRLRQENQMWNREGCRC
 DEEPTG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6006_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144608

ORF Size: 858 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_144608.2](#)

RefSeq Size: 1330 bp

RefSeq ORF: 861 bp

Locus ID: 124790

UniProt ID: [Q96MH2](#)

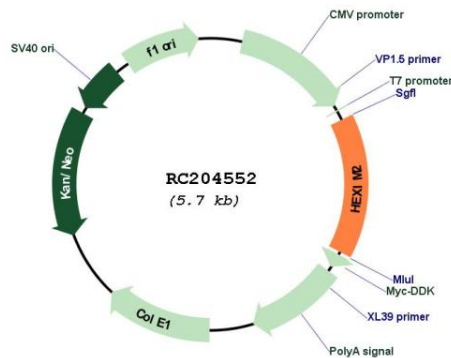
Cytogenetics: 17q21.31

Protein Families: Transcription Factors

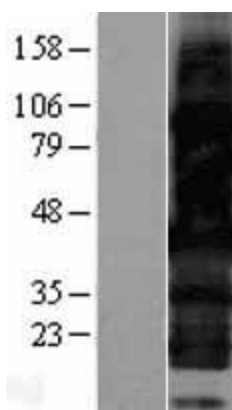
MW: 32.4 kDa

Gene Summary: This gene encodes a member of the HEXIM family of proteins. This protein is a component of the 7SK small nuclear ribonucleoprotein. This protein has been found to negatively regulate the kinase activity of the cyclin-dependent kinase P-TEFb, which phosphorylates multiple target proteins to promote transcriptional elongation. This gene is located approximately 7 kb downstream from related family member HEXIM1 on chromosome 17. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]

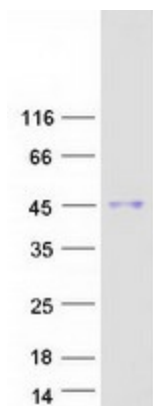
Product images:



Circular map for RC204552



Western blot validation of overexpression lysate (Cat# [LY403395]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204552 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HEXIM2 protein (Cat# [TP304552]). The protein was produced from HEK293T cells transfected with HEXIM2 cDNA clone (Cat# RC204552) using MegaTran 2.0 (Cat# [TT210002]).