

## Product datasheet for RC237194

### HEXIM2 (NM\_001303438) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HEXIM2 (NM_001303438) 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:	>RC237194 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGGCCACTCCGAACCAGACCGCCTGTAATGCAGAGTCACCAGTGGCCCTGGAGGAGGCCAAGACCT  
CTGGTGCCCGGGGAGCCCCAAACACCCCTGAGCGTCATGACTCTGGTGGTTCCTGCCCTGACACC  
GCGGATGGAGAGCCACTCAGAGGATGAAGATCTTGCTGGGGCTGTCGGTGGCCTGGGCTGGAACAGTAGG  
AGTCCCCGGACCCAGAGCCAGGGGGCTGCTCAGCGGAGGCTGTGCTGGCCCGGAAGAAACACCGTCGGC  
GGCCATCGAAGCGCAAAGGCCTGGCGACCCTACCTGGAGCTGAGCTGGGCTGAGAAACAACAGCGGGA  
TGAGAGGCAGAGCCAGAGGGCCTCCCGGTCCCGGAAGAGATGTTCCGCAAAGGCCAGCCGTGGCCCC  
TACAACACCACCCAGTTCCTGATGAATGACAGGGACCCGAGGAGCCCAACTTGGATGTGCCCATGGGA  
TCTCCCACCCAGGTTCCAGTGGGGAGAGTGAGGCCGGGGACAGTGATGGGCGGGCCGAGCGCACGGTGA  
GTTCCAGCGGAAGGACTTCTCTGAGACTTACGAACGCTTCCACACCGAGAGCCTGCAGGGCCGACGCAAG  
CAGGAGCTGGTGCAGACTACCTGGAGCTGGAGAAGCGGCTGTGCGAGGCGGAGGAGGAGACTAGGAGGC  
TGCAGCAGCTGCAGGCGTGACCCGGCCAGCAGTCTGCCCCAGGTGGAGGAGCTGGCTGCCGAGGTCCA  
GAGGCTCCGGACCGAAAACCCAGCGGCTTCGTGAGGAGAACAGATGTGGAACCGAGAGGGCTGCCGCTGT  
GATGAGGAGCCGGGTACC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237194 protein sequence  
Red=Cloning site Green=Tags(s)

MMATPNQTACNAESPVALEEAKTSGAPGSPQTPPERHDSGGSLPLTPRMESHSEDEDLAGAVGGLGWNSR  
 SPRTQSPGGCSAEAVLARKKHRRRPSKRKRHWRYLELSWAEQQRDERQSQRASRVREEMFAKGQPVAP  
 YNTTQFLMNRDPPEPNLDVPHGISHPGSSGESEAGDSGRGRAHGEFQRKDFSETYERFHTESLQGRSK  
 QELVRDYLELEKRLSQAEEETRRLQQLQACTGQQSCRQVEELAAEVQRLRTENQRLRQENQMWNREGCRC  
 DEEPGT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6006\\_c01.zip](https://cdn.origene.com/chromatograms/mk6006_c01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001303438

**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.

**RefSeq:** [NM\\_001303438.1](#), [NP\\_001290367.1](#)

**RefSeq Size:** 2228 bp

**RefSeq ORF:** 861 bp

**Locus ID:** 124790

**UniProt ID:** [Q96MH2](#)

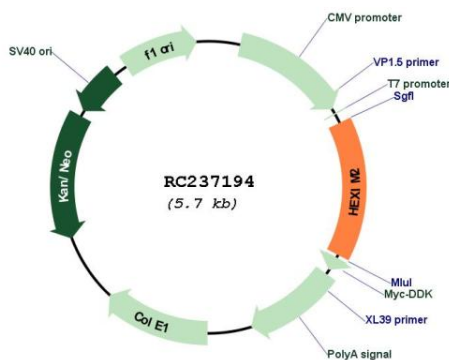
**Cytogenetics:** 17q21.31

**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 RC237194