

## Product datasheet for **MR204453**

### Hexim2 (NM\_027658) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hexim2 (NM_027658) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hexim2
Synonyms:	4933402L21Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204453 representing NM_027658 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCACTGTGAACCATACCAACTGCAACACAGCGTCACCAGCTGCTCTGGAGGAGCCAAAGACTTCCG  
GTGGTCTTCGGAGCCCCAGATAGCCCATGAGCCTCATGACTTCGGTGGTCCCAGCTTCTGCCATCAGG  
ACAGGAGATCCAATCAGAGGATGAAGGGACTGTCCCCGCTGGCGATGGCTCAAGTTGTAACTTAGGGT  
TCTCGAACCCAGAGCCCAGGGGGCTGTTTCGGTGGAGGCGGTGCTGGCCCGAAAGAAGCACCGTAGCGGC  
CATCGAAGCGCAAGCGGCACTGGCGGCCCTACTTGGAGCTGAGCTGGGCCGAGAAGCAACAGCGAGATGA  
GAGGCAGAGCCAGAGGGCCTCTCGGGTCCGTGAGGAGATGTTCCGCAAAGGTGAGCCCTGGCGCCCTAC  
AACACCACCCAGTTCTCATGAATGATCGTGACCTGGAGGAGCCTAACCTCGATGTGCTTACGGGCCCT  
CCCACTCTGGCTCCGGTGGGGAGAACGAAGCAGGGGACAGTGTGGGCAAGGCCGAGCCCATGGGAATT  
TCAGCAGAGGGACTTCTCTGAGGCCTATGAGCGGTACCACACTGAGAGCCTTACAGGGCCGACGAAGCAG  
GAGCTGGTGCAGACTACCTGGATCTAGAGAGGCGTGTGTACAGGCTGAGCAGGAACTCGGAGGCTCC  
GGCAGCTGCAGGGTTGCTCCAGCAGGCAACCCTGTCAACAGGTGGAAGAGCTGGCTGTGAGGTGGAGAG  
GCTCAGAACTGAAAACCAGCGGCTGCGTCAGGAGAACGAGATGTGGAACCGAGAGGGCGGCTACTGTGAC  
CAGGAGAAACCAGCCTCAGAAGGGACCCCTTGGCCCAAGGTTGAAGCCCCATTTACAGCCACACAGGCC  
AGCTGGGTCATAGGGAGGCAGGTGACAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204453 representing NM\_027658  
 Red=Cloning site Green=Tags(s)

MATVNHTNCNTASPAALEEAKTSGGLRSPQIAHEPHDFGGSQLLPSGQEIQSEDEGTVPAGDGSSCNIRG  
 SRTQSPGGCSVEAVLARKKHRRRPSKRKRHWRYLELSWAQKQQRDERQSQRASRVREEMFAKQPLAPY  
 NTTQFLMNDRLDLEPNLDVLDHGPSHSGSGGENEAGDSDGQGRAHGEFQQRDFSEAYERYHTESLQGRSKQ  
 ELVRDYLDLERRLSQAEQETRRRLRQLQGCSSRQPCQQVEELAAEVERLRTENQRLRQENEMWNREGGYCD  
 QEKPASEGTPWPKVEAPFQTHTGQLGHREAGDR

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\_027658

**ORF Size:** 939 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\\_027658.2](#), [NP\\_081934.1](#)

**RefSeq Size:** 1928 bp

**RefSeq ORF:** 942 bp

**Locus ID:** 71059

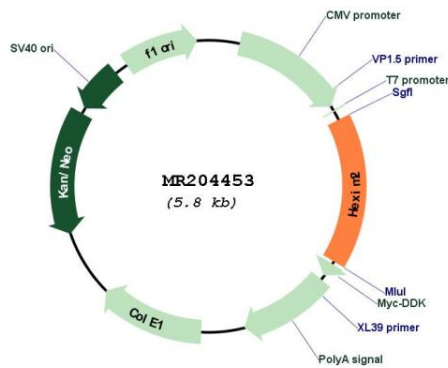
**UniProt ID:** [Q3TVI4](#)

**Cytogenetics:** 11 E1

**MW:** 35.4 kDa

**Gene Summary:** Transcriptional regulator which functions as a general RNA polymerase II transcription inhibitor. In cooperation with 7SK snRNA sequesters P-TEFb in a large inactive 7SK snRNP complex preventing RNA polymerase II phosphorylation and subsequent transcriptional elongation (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR204453