

Product datasheet for MR203099

Hexim1 (BC022111) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hexim1 (BC022111) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hexim1
Synonyms:	HIS1, CLP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203099 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGAGTCCCTCGTGCAGCCAGGTCATGACTCGGAGGCCACCAAGCAGGAGGCTCCTGCCGCCGGAG
GCGAGGAGCCATGGGGACAGCAACAGAGACAGCTGGGCAAGAAAAACATCGGAGACGCCCTCAAAGAA
GAAGCGGCATTGGAAGCCCTACTACAAGCTGACTTGGGAGGAGAAGAAAAAGTTCGACGAGAAGCAGAGC
CTGCGAGCTTCGCGGGTTCGAGCCGAGATGTTCCCAAGGGCCAGCCAGTTGCGCCCTATAACACCAGC
AGTTCCTCATGGATGACCACGATCAGGAGGAGCCTGATCTCAAAACCGGCCTTTACCCAAAGCGGGCAGC
CGCCAAATCCGACGACACCAGCGATGAGGATTTTGTGGAAGAAGCTGGTGAGGAAGCAGGAGGCAGCGAT
GGCATGGGAGGGGACGGCAGCGAGTTTCTGCAGCGGGACTTCTCGGAGACGTACGAGCGGTACCACGCCG
AGAGCCTGCAGAACATGAGCAAGCAGGAGCTCATCAAAGAGTACCTGGAGCTGGAGAAGTGCCTCTCCCG
CAAGGAGGACGAAAAAACCAGGCTGCGGCTGGAAGCAAGCGGCTGGGAGGCGTCGACGCGGAGTGCAG
GAGCTCGAGCTAGAGCTGGACCGGCTGCGCGCTGAGAACCTCCAGCTGCTGACCGAGAACGAACTGCACC
GGCAGCAGGAGCGAGCGCCTCTTCCAAGTTCGGCGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR203099 protein sequence
Red=Cloning site Green=Tags(s)

MSESLVQPGHDSEATKQEAPAAGGEEPWGQQRQLGKKKRRRPSKKKRHWKPYKLTWEEKKKFDEKQS
 LRASRVRAEMFAKQGPVAPYNTTQFLMDDHDQEEPDLKTGLYPKRAAAKSDDTSDDEFVEEAGEEDGGSD
 GMGGDGSEFLQRDFSETYERYHAESLQNMKQELIKEYLELEKCLSRKEDENNRLRLESKRLGGVDARVR
 ELELELDRLRAENLQLLTENELHRQQRAPLSKFGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: BC022111

ORF Size: 738 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: [BC022111](#), [AAH22111](#)

RefSeq Size: 1488 bp

RefSeq ORF: 740 bp

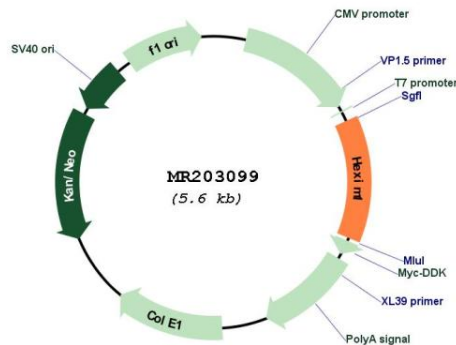
Locus ID: 192231

Cytogenetics: 11 E1

MW: 28.6 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. May also regulate NF-kappa-B, ESR1, NR3C1 and CIITA-dependent transcriptional activity. Plays a role in the regulation of DNA virus-mediated innate immune response by assembling into the HDP-RNP complex, a complex that serves as a platform for IRF3 phosphorylation and subsequent innate immune response activation through the cGAS-STING pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203099