

Product datasheet for RC204815

Hex (HHEX) (NM_002729) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hex (HHEX) (NM_002729) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hex
Synonyms:	HEX; HMPH; HOX11L-PEN; PRH; PRHX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204815 representing NM_002729 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCAGTACCCGCACCCGGGCCGGCGGGCGCCGTGGGGTGCCGCTGTACGCGCCACGCCGCTGC
TGCAACCCGCACACCCGACGCCCTTTTACATCGAGGACATCTGGGCCGGGCCCGCCGCCCCACGCC
CGCCCCACGCTGCCGTCCCCAACTCCTCCTCACCAGCCTCGTGTCCCCTACCGACCCCGGTGTAC
GAGCCACGCCGATCCATCCAGCCTTCTCGCACCCTCCGCCCGCGCTGGCCGCTGCCTACGGACCCG
GCGGCTTCGGGGCCCTCTGTACCCTTCCCGCGACGGTGAACGACTACACGCACGCCCTGCTCCGCCA
CGACCCCTGGGCAAACCTCTACTCTGGAGCCCTTCTTGAGAGGCCTCTGCATAAAAGGAAAGCGGC
CAGGTGAGATTCTCCAACGACCAGACATCGAGCTGGAGAAGAAATTCGAGACGCAGAAATATCTCTCTC
CGCCCGAGAGGAAGCGTCTGGCCAAGATGCTGCAGCTCAGCGAGAGACAGGTCAAACCTGGTTTCAGAA
TCGACGCGCTAAATGGAGGAGACTAAAACAGGAGAACCCTCAAAGCAATAAAAAAGAAAGAACTGGAAAGT
TTGGACAGTTCCTGTGATCAGAGGCAAGATTTGCCAGTGAACAGAAATAAAGGTGCTTCTTTGGATAGCT
CTCAATGTTCCGCTCCCTGCCCTCCAGGAAGACCTTGAATCAGAGATTTCAGAGGATTCTGATCAGGA
AGTGGACATTGAGGGCGATAAAAGCTATTTAATGCTGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC204815 representing NM_002729
Red=Cloning site Green=Tags(s)

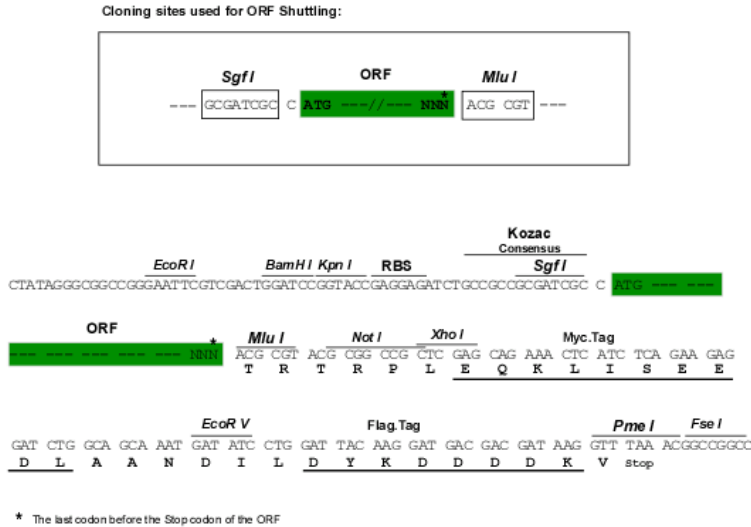
MQYPHPGPAAGAVGVPL YAPTPLLQPAHPTPFYIEDILGRGPAAPTPAPTL PSPNSSFTSLVSPYRTPVY
 EPTPIHPAFSHSAAALAAAYGPGGFGGPLYPFPRTVNDYTHALLRHDPLGKPLLWSPFLQRPLHKRKGK
 QVRFSDNQTI ELEKKFETQKYLSPPERKRLAKMLQLSERQVKTWFQNRRAKWRRLKQENPQSNKKEELES
 LDSSCDQRQDL PSEQNKGASLDSSQCSPSPASQEDLESEI SEDSDQEVDIEGDKSYFNAG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2686_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002729

ORF Size: 810 bp

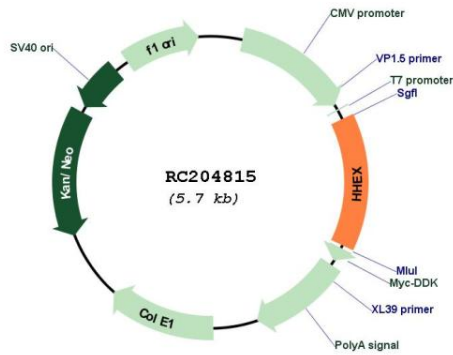
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

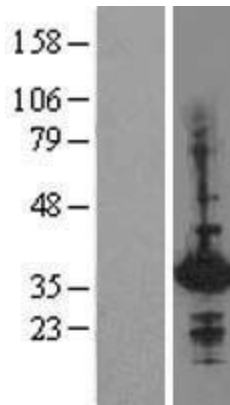
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">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_002729.5
RefSeq Size:	1772 bp
RefSeq ORF:	813 bp
Locus ID:	3087
UniProt ID:	Q03014
Cytogenetics:	10q23.33
Domains:	homeobox
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Maturity onset diabetes of the young
MW:	29.8 kDa
Gene Summary:	This gene encodes a member of the homeobox family of transcription factors, many of which are involved in developmental processes. Expression in specific hematopoietic lineages suggests that this protein may play a role in hematopoietic differentiation. [provided by RefSeq, Jul 2008]

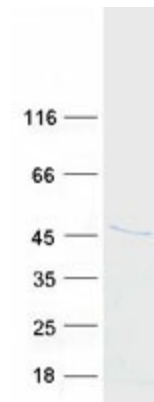
Product images:



Circular map for RC204815



Western blot validation of overexpression lysate (Cat# [LY419139]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204815 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HHEX protein (Cat# [TP304815]). The protein was produced from HEK293T cells transfected with HHEX cDNA clone (Cat# RC204815) using MegaTran 2.0 (Cat# [TT210002]).