

Product datasheet for RC206777

HEXO (ERI1) (NM_153332) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HEXO (ERI1) (NM_153332) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HEXO
Synonyms:	3'HEXO; HEXO; THEX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206777 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGAGGATCCACAGAGTAAAGAGCCTGCCGGCGAGGCCGTGGCTCTCGCGCTGCTGGAGTCGCCGCGGC
 CGGAGGGCGGGGAGGAGCCGCCGCTCCAGTCCCGAGGAACTCAACAGTGTAATTTGATGGCCAGGA
 GACAAAAGGATCCAAGTTCATTACCTCCAGTGCAGTGACTTCAGTGACCCGTTTACAAGAGATTGCC
 ATTACGAATGGCTGTATTAATAGAATGAGTAAGGAAGAACTCAGAGCTAAGCTTTCAGAATCAAGCTTG
 AAAGTAGAGGAGTAAAGGATGTTCTAAAGAAGAGACTGAAAACTATTATAAGAAGCAGAAGCTGATGCT
 GAAAGAGAGCAATTTTGCTGACAGTTATTATGACTACATTTGTATTATTGACTTTGAAGCCACTTGTGAA
 GAAGGAAACCCACCTGAGTTTGTACATGAAATAATTGAATTTCCGGTTGTTTTACTGAATACGCATACTT
 TAGAAATAGAAGACACGTTTCAGCAGTATGTAAGACCAGAGATTAACACACAGCTGTCTGATTTCTGCAT
 CAGTCTAACTGGAATTACTCAGGATCAGGTAGACAGAGCTGATACCTTCCTCAGGTACTAAAAAAGTA
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 ATATGAGTAAGTCTTGAACATTCAGTGCAACTCAGCAGGCTCAAATACCCTCCTTTTGCAGAAAAAGTG
 GATCAATATTCGGAAGTCATATGGAAATTTTACAAGGTTCTAGAAGCCAAACCAACTGACAATAATG
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 GAATAGCAGTTTGAATGCTTCAGGATGGGTGTGAACCTCGAATCAACGAGAAAAATGCATGCAGGACAGCT
 AATGAGTGTGCTCTTCTTACCAATAGAGGGCACTCCACCACCACAAATGCCACATTTTAGAAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC206777 protein sequence
 Red=Cloning site Green=Tags(s)

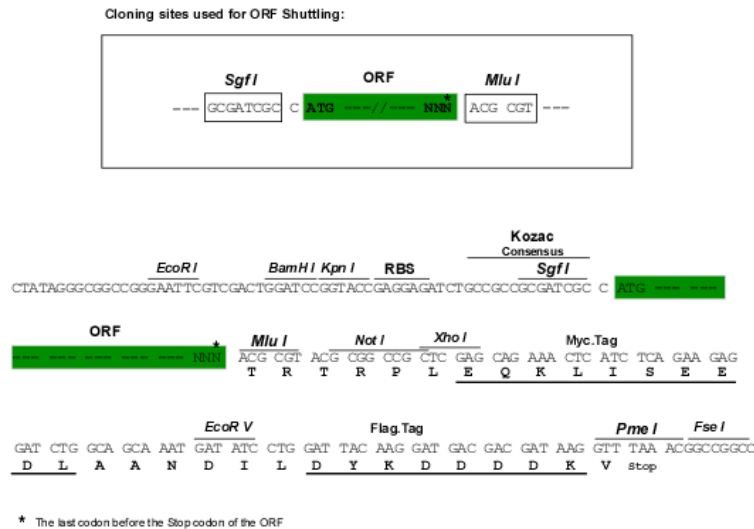
MEDPQSKEPAGEAVALALLESPRPEGGEPPRPSPEETQQCKFDGQETKGSKFITSSASDFSDPVYKEIA
 ITNGCINRMSKEELRAKLSEFKLETRGVKDLKKRLKNYYKKQKLMLKESNFADSYDYICIIDFEATCE
 EGNPPEFVHEIIEFPVLLNTHLTIEDTFQYYVRPEINTQLSDFCISLTGITQDQVDRADTFPQVLKKV
 IDWMKLKELGTKYKYSLLTDGSWDMSKFLNIQCQLSRLKYPPFAKKWINIRKSYGNFYKVP RSQTKLTIM
 LEKLGMDYDGRPHCGLDLDSKNIARIAVRMLQDGCELRI NEKM HAGQLMSVSSSLPIEGTPPPQMPHFRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6329_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153332

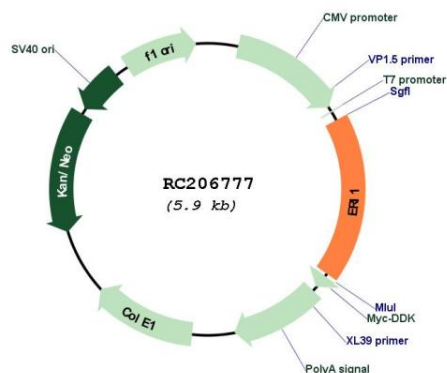
ORF Size: 1047 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

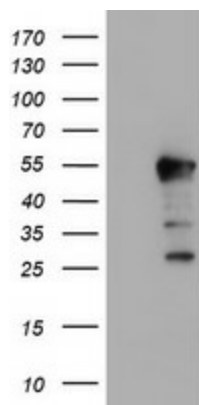
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<u>NM_153332.4</u>
RefSeq Size:	4615 bp
RefSeq ORF:	1050 bp
Locus ID:	90459
UniProt ID:	<u>Q8IV48</u>
Cytogenetics:	8p23.1
MW:	40.1 kDa
Gene Summary:	RNA exonuclease that binds to the 3'-end of histone mRNAs and degrades them, suggesting that it plays an essential role in histone mRNA decay after replication. A 2' and 3'-hydroxyl groups at the last nucleotide of the histone 3'-end is required for efficient degradation of RNA substrates. Also able to degrade the 3'-overhangs of short interfering RNAs (siRNAs) in vitro, suggesting a possible role as regulator of RNA interference (RNAi). Requires for binding the 5'-ACCCA-3' sequence present in stem-loop structure. Able to bind other mRNAs. Required for 5.8S rRNA 3'-end processing. Also binds to 5.8s ribosomal RNA. Binds with high affinity to the stem-loop structure of replication-dependent histone pre-mRNAs.[UniProtKB/Swiss-Prot Function]

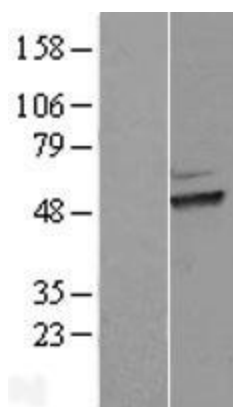
Product images:



Circular map for RC206777



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ERI1 (Cat# RC206777, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ERI1 (Cat# [TA504134]). Positive lysates [LY407051] (100ug) and [LC407051] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY407051]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206777 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ERI1 protein (Cat# [TP306777]). The protein was produced from HEK293T cells transfected with ERI1 cDNA clone (Cat# RC206777) using MegaTran 2.0 (Cat# [TT210002]).