

## Product datasheet for **RG206777**

### 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:                      | TurboGFP                                                                    |
| Symbol:                   | HEXO                                                                        |
| Synonyms:                 | 3'HEXO; HEXO; THEX1                                                         |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                      |
| ORF Nucleotide Sequence:  | >RG206777 representing NM_153332<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGAGGATCCACAGAGTAAAGAGCCTGCCGGCGAGGCCGTGGCTCTCGCGCTGCTGGAGTCGCCGCGGC  
CGGAGGGCGGGGAGGAGCCGCCGCTCCAGTCCCGAGGAACTCAACAGTGTAATTTGATGGCCAGGA  
GACAAAAGGATCCAAGTTCATTACCTCCAGTGCAGTGACTTCAGTGACCCGTTTACAAGAGATTGCC  
ATTACGAATGGCTGTATTAATAGAATGAGTAAGGAAGAACTCAGAGCTAAGCTTTCAGAATCAAGCTTG  
AACTAGAGGAGTAAAGGATGTTCTAAAGAAGAGACTGAAAACTATTATAAGAAGCAGAAGCTGATGCT  
GAAAGAGAGCAATTTTGCTGACAGTTATTATGACTACATTTGTATTATTGACTTTGAAGCCACTTGTGAA  
GAAGGAAACCCACCTGAGTTTGTACATGAAATAATTGAATTTCCGGTTGTTTTACTGAATACGCATACTT  
TAGAAATAGAAGACACGTTTCAGCAGTATGTAAGACCAGAGATTAACACACAGCTGTCTGATTTCTGCAT  
CAGTCTAACTGGAATTACTCAGGATCAGGTAGACAGAGCTGATACCTTCCTCAGGTACTAAAAAAGTA  
ATTGACTGGATGAAATTGAAGGAATTAGGAACAAAGTATAAATACTCACTTTTAACAGATGGTCTTGCG  
ATATGAGTAAGTCTTGAACATTCAGTGCAACTCAGCAGGCTCAAATACCCTCCTTTTGCAGAAAAAGTG  
GATCAATATTCGGAAGTCATATGGAAATTTTACAAGTTCCTAGAAGCCAAACCAACTGACAATAATG  
CTTGAAAAATTAGGAATGGATTATGATGGCGGCCTCACTGTGGTCTTGATGACTCTAAGAATATCGCCC  
GAATAGCAGTTTGAATGCTTCAGGATGGGTGTGAACCTCGAATCAACGAGAAAAATGCATGCAGGACAGCT  
AATGAGTGTGCTCTTCTTACCAATAGAGGGCACTCCACCACCACAAATGCCACATTTTAGAAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206777 representing NM\_153332  
 Red=Cloning site Green=Tags(s)

MEDPQSKEPAGEAVALALLESPRPEGGEPPRPSPEETQQCKFDGQETKGSKFITSSASDFSDPVYKEIA  
 ITNGCINRMSKEELRAKLEFLETRGVKDLKKRLKNYYKKQKLMLKESNFADSYDYICIIDFEATCE  
 EGNPPEFVHEIIEFPVLLNTHLEIEDTFQYVRPEINTQLSDFCISLTGITQDQVDRADTFPQVLKVV  
 IDWMKLKELGTKYKSYLLTDGSWDMSKFLNIQCQLSRLKYPPFAKKWINIRKSYGNFYKVPKRSQTKLTIM  
 LEKLGMDYDGRPHCGLLDSKNIAIAVRMLQDGCELRINEKMHAGQLMSVSSSLPIEGTPPPQMPHFRK

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_153332

**ORF Size:** 1047 bp

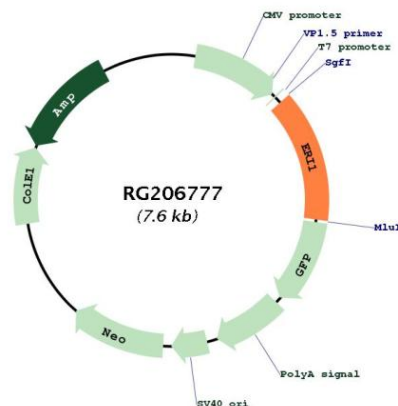
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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.

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                                                                                                                                                      |
| <b>RefSeq:</b>                | <a href="#">NM_153332.4</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RefSeq Size:</b>           | 2195 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>RefSeq ORF:</b>            | 1050 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Locus ID:</b>              | 90459                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>UniProt ID:</b>            | <a href="#">Q8IV48</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Cytogenetics:</b>          | 8p23.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Gene Summary:</b>          | 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 RG206777