

Product datasheet for **RG206007**

EXOSC1 (NM_016046) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: EXOSC1 (NM_016046) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: EXOSC1
Synonyms: CGI-108; CSL4; Csl4p; p13; PCH1F; SKI4; Ski4p
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG206007 representing NM_016046
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCCACCTGTGAGATACTGCATCCCCGGCGAACGTCTGTGTAACCTGGAGGAGGGCAGCCCGGGCA
GCGGCACCTACACCCGCCACGGCTACATCTTTTCGTCGCTTGCCGGCTGTCTGATGAAGAGCAGCGAGAA
TGGCGCGCTTCCAGTGGTGTCTGTAGTGAGAGAAACAGAGTCCCAGTTACTGCCAGATGTGGGAGCTATT
GTAACCTGTAAGGTCTCTAGCATCAATTCACGCTTTGCCAAAGTACACATCCTGTATGTGGGTCCATGC
CTCTTAAGAACTCTTTTCGAGGAACTATCCGCAAGGAAGATGTCCGAGCAACTGAAAAAGACAAGGTTGA
AATTTATAAGAGTTTCCGCCAGGTGACATTGTCTTGCCAAAGTGATCTCCTTAGGTGATGCACAGTCC
AACTACCTGCTAACCACCGCCGAGAACGAGCTGGGAGTGGTGGTAGCCACAGTGAGTCAGGTATCCAGA
TGGTTCCCATCAGCTGGTGTGAGATGCAGTGCCCTAAGACCCACACTAAAGAATTCGGAAAGTAGCCCG
AGTACAACCCGAATCTTGCAGACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206007 representing NM_016046
Red=Cloning site Green=Tags(s)

MAPPVRYCIPGERLCNLEEGSPGSGTYTRHGYIFSSLAGCLMKSSENGALPVVSVVRETESQLLPDVGAI
VTCKVSSINRFKVVHILYVGSMPKNSFRGTIRKEDVRATEKDKVEIYKSFRRPGDIVLAKVISLGAQS
NYLLTTAENELGVVVAHSESGIQMPISWCQMCPKHTHTKEFRKVARVQPEFLQT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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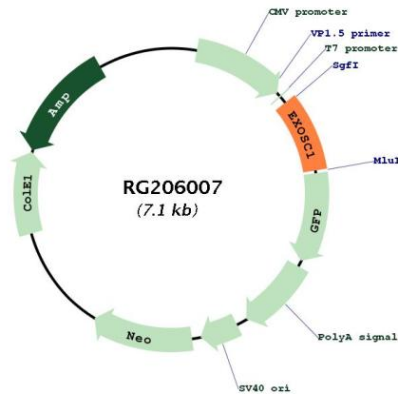
Cloning Scheme:


- ACCN:** NM_016046
- ORF Size:** 585 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_016046.5](#)
- RefSeq Size:** 1150 bp
- RefSeq ORF:** 588 bp
- Locus ID:** 51013
- UniProt ID:** [Q9Y3B2](#)
- Cytogenetics:** 10q24.1

Protein Pathways: RNA degradation

Gene Summary: This gene encodes a core component of the exosome. The mammalian exosome is required for rapid degradation of AU rich element-containing RNAs but not for poly(A) shortening. The association of this protein with the exosome is mediated by protein-protein interactions with ribosomal RNA-processing protein 42 and ribosomal RNA-processing protein 46. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RG206007