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Product datasheet for RC206007

EXOSC1 (NM_016046) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EXOSC1 (NM_016046) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EXOSC1
Synonyms:	CGI-108; CSL4; Csl4p; p13; PCH1F; SKI4; Ski4p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206007 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCCACCTGTGAGATACTGCATCCCCGGCGAACGTCTGTGTAACTTGGAGGAGGGCAGCCCGGGCA
GCGGCACCTACACCCGCCACGGCTACATCTTTTCGTCGCTTGCCGGCTGTCTGATGAAGAGCAGCGAGAA
TGGCGCGCTTCCAGTGGTGTCTGTAGTGAGAGAAACAGAGTCCCAGTTACTGCCAGATGTGGGAGCTATT
GTAACCTGTAAGGTCTCTAGCATCAATTCACGCTTTGCCAAAGTACACATCCTGTATGTGGGGTCCATGC
CTCTTAAGAACTCTTTTCGAGGAACTATCCGCAAGGAAGATGTCCGAGCAACTGAAAAAGACAAGGTTGA
AATTTATAAGAGTTTCCGCCCAGGTGACATTGTCTTGGCCAAAGTGATCTCCTTAGGTGATGCACAGTCC
AACTACCTGCTAACCACCGCCGAGAACGAGCTGGGAGTGGTGGTAGCCCACAGTGAGTCAGGTATCCAGA
TGGTTCCCATCAGCTGGTGTGAGATGCAGTGCCCTAAGACCCACACTAAAGAATTCCGGAAAGTAGCCCG
AGTACAACCCGAATTCTTGCAGACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206007 protein sequence
Red=Cloning site Green=Tags(s)

MAPPVRYCIPGERLCNLEEGSPGSGTYTRHGYIFSSLAGCLMKSSENGALPVVSVVRETESQLLPDVGAI
VTCKVSSINSRFAKVHILYVGSMPLKNSFRGTIRKEDVRATEKDKVEIYKSFRPGDIVLAKVISLGDAQS
NYLLTTAENELGVVVAHSESGIQMVPISWCEMQCPKTHTKEFRKVARVQPEFLQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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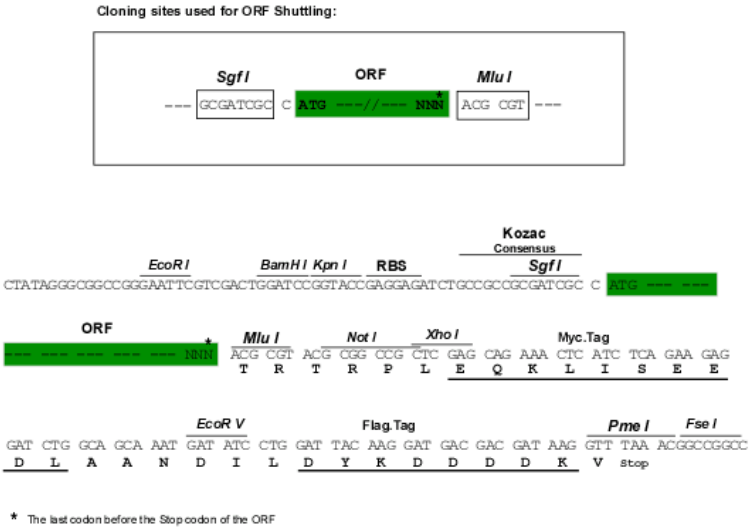
Chromatograms: https://cdn.origene.com/chromatograms/mk6317_e11.zip

Restriction Sites: SgfI-MluI

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.

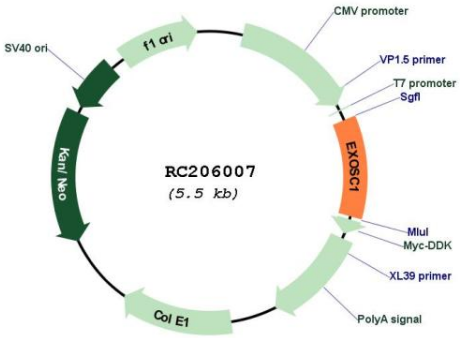
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_016046.5

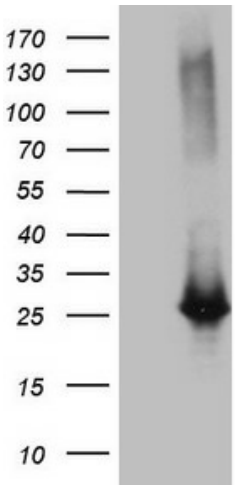
RefSeq Size: 1150 bp

RefSeq ORF:	588 bp
Locus ID:	51013
UniProt ID:	Q9Y3B2
Cytogenetics:	10q24.1
Protein Pathways:	RNA degradation
MW:	21.5 kDa
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]

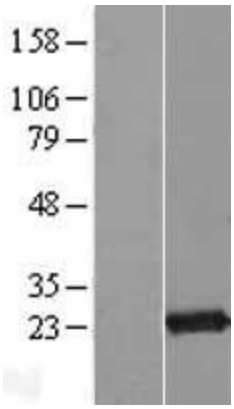
Product images:



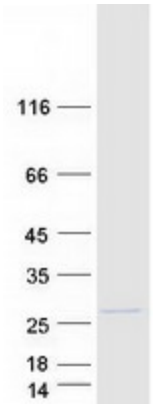
Circular map for RC206007



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY EXOSC1 (Cat# RC206007, 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-EXOSC1 (Cat# [TA808518])(1:2000). Positive lysates [LY414227] (100ug) and [LC414227] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY414227]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206007 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EXOSC1 protein (Cat# [TP306007]). The protein was produced from HEK293T cells transfected with EXOSC1 cDNA clone (Cat# RC206007) using MegaTran 2.0 (Cat# [TT210002]).