

## Product datasheet for **SC114517**

### EXOSC1 (NM\_016046) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EXOSC1 (NM_016046) Human Untagged Clone
Tag:	Tag Free
Symbol:	EXOSC1
Synonyms:	CGI-108; CSL4; Csl4p; p13; PCH1F; SKI4; Ski4p
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_016046, the custom clone sequence may differ by one or more nucleotides

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ATGGCGCCACCTGTGAGATACTGCATCCCCGGCGAACGTCTGTGTAACCTGGAGGAGGGCAGCCCGGGCA  
GCGGCACCTACACCCGCCACGGCTACATCTTTTCGTCGCTTGCCGGCTGTCTGATGAAGAGCAGCGAGAA  
TGGCGCGCTTCCAGTGGTGTCTGTAGTGAGAGAAACAGAGTCCCAGTTACTGCCAGATGTGGGAGCTATT  
GTAACCTGTAAGGTCTCTAGCATCAATTCACGCTTTGCCAAAGTACACATCCTGTATGTGGGGTCCATGC  
CTCTTAAGAACTCTTTTCGAGGAACTATCCGCAAGGAAGATGTCCGAGCAACTGAAAAAGACAAGGTTGA  
AATTTATAAGAGTTTCCGCCAGGTGACATTGTCTTGCCAAAGTGATCTCCTTAGGTGATGCACAGTCC  
AACTACCTGCTAACCACCGCCGAGAACGAGCTGGGAGTGGTGGTAGCCACAGTGAGTCAGGTATCCAGA  
TGGTTCCCATCAGCTGGTGTGAGATGCAGTGCCCTAAGACCCACACTAAAGAATTCGGAAAGTAGCCCG  
AGTACAACCCGAATTCCTGCAGACCTAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_016046 unedited AAAANNNGGGGGNNNNNNNNNTNNNNNNGNCCGGTTCAAATTTGTATACGACTCATAT AGGCGGCCCGCAAATTCGCACCAGGGCGCCACCTGTNGACAACCTGCATCCCCGGCGAACG TCTGTGTAACCTGGAGGAGGGCAGCCCGGGCAGCGCACCTACACCCGCCACGGCTACAT CTTTTCGTCGCTTGCCGGCTGTCTGATGAAGAGCAGCGAGAATGGCGCGCTTCCAGTGGT GTCTGTAGTGAGAGAAACAGAGTCCCAGTACTGCCAGATGTGGGAGCTATTGTAACCTG TAAGGCTCTAGCATCAATTCACGCTTTGCCAAAGTACACATCCTGTATGTGGGGTCCAT GCCTCTTAAGAACTCTTTTCGAGGAACTATCCGCAAGGAAGATGTCCGAGCAACTGAAAA AGACAAGTTGAAATTTATAAGAGTTTCCGCCAGGTGACATTGTCTTGCCAAAGTGAT CTCCTTAGGTGATGCACAGTCCAACCTGCTAACACCAGCGGAGAACGAGCTGGGAGT GGTGGTAACCCACAGTGAGTCAGGTATCCAGATGGTTCCCATCAGCTGGTGTGAGATGCA GTGCCCTAAGACCCACACTAAAGAATCCGGACAGTAGCCCGAGTACAACCCGAATTCTT GCAGACCTAAGAAGCCACTTTTTACTCTATGCAAGTGGTTAAGCTGTTCTGAGTATAAC ACCAAGATGCTGTGTCTTTATTCAAACACCTGNCGTCCGCCAACAGCCACTTCCAGNCA GNTCTTCCAGTTACGCTGTACATGGAACATGTCTCTGTGCACCTATCAGTGGATTTTCAT TCTCTTGAGTAATAATCCTATCGTTTNCAGGCATAAAAGGGGAACTGAACCTTACAAAAA AACTCGACTTTAGATTGCGGCCGCGATCATAGCTGNTCCTGAAACGAACCGGNGTGGCAT CT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_016046
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">NM_016046.2</a></u> , <u><a href="#">NP_057130.1</a></u>
<b>RefSeq Size:</b>	1150 bp
<b>RefSeq ORF:</b>	588 bp
<b>Locus ID:</b>	51013
<b>UniProt ID:</b>	<u><a href="#">Q9Y3B2</a></u>
<b>Cytogenetics:</b>	10q24.1
<b>Protein Pathways:</b>	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]  
Transcript Variant: This variant (1) encodes the longest isoform (a).