

## Product datasheet for **SC303363**

### Exonuclease 1 (EXO1) (NM\_003686) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Exonuclease 1 (EXO1) (NM_003686) Human Untagged Clone
Tag:	Tag Free
Symbol:	EXO1
Synonyms:	HEX1; hExo1
Vector:	<u>pCMV6 series</u>



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_003686, the custom clone sequence may differ by one or more nucleotides

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ATGGGGATACAGGGATTGCTACAATTTATCAAAGAAGCTTCAGAACCCATCCATGTGAGG
AAGTATAAAGGGCAGGTAGTAGCTGTGGATACATATTGCTGGCTTCACAAAGGAGCTATT
GCTTGTGCTGAAAACTAGCCAAAGGTGAACCTACTGATAGGTATGTAGGATTTTGTATG
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ACTTTACCTTCTAAAAAGGAAGTAGAGAGATCTAGAAGAGAAAGACGACAAGCCAATCTT
CTTAAGGGAAAGCAACTTCTTCGTGAGGGGAAAGTCTCGGAAGCTCGAGAGTGTTCACC
CGGTCTATCAATATCACACATGCCATGGCCACAAAGTAATTAAGCTGCCCGTCTCAG
GGGGTAGATTGCCTCGTGGCTCCCTATGAAGCTGATGCGCAGTTGGCCTATCTTAACAAA
GCGGGAATTGTGCAAGCCATAATTACAGAGGACTCGGATCTCCTAGCTTTTGGCTGTAA
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GGAATGTGCAGACAGCTTGGGGATGTATTCACGGAAGAGAAGTTTCGTTACATGTGTATT
CTTTCAGGTTGTGACTACCTGTCATCACTGCGTGGGATTGGATTAGCAAAGGCATGCAAA
GTCCTAAGACTAGCCAATAATCCAGATATAGTAAAGTTATCAAGAAAATTGGACATTAT
CTCAAGATGAATATCACGGTACCAGAGGATTACATCAACGGGTTTATTCCGGCCAACAAT
ACCTTCCTCTATCAGCTAGTTTTTATGCCATCAAAGGAAACTTATTCCTCTGAACGCC
TATGAAGATGATGTTGATCCTGAAACACTAAGCTACGCTGGGCAATATGTTGATGATTCC
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TACAATCCAGACACTGCTATGCCTGCCATTCAAGAAGTCATAGTTGGGATGACAAAACA
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TCGGGTACTGTTTCAGATGCCCCACAATTGAAGGAAAAATCCAAGTACTGTGGGAGTGGAA
CGAGTGATTAGTACTAAAGGGTTAAATCTCCCAAGGAAATCATCCATTGTGAAAAGACCA
AGAAGTGCAGAGCTGTCAAGAAGTAGCCTGTTGAGTCAGTATTCTCTTTTACGAAAG
AAGACCAAGAAAAATAGCTCTGAAGGCAATAAATCATTGAGCTTTTCTGAAGTGTGTG
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AATAAATTTGCAACATTTTTACAAAGGAAAAATGAAGAAAGTGGTGCAGTTGTGGTTCCA
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AGCATCCAGCCTCTGGATGAAACTGCTGTCACAGATAAAGAGAACAATCTGCATGAATCA
GAGTATGGAGACCAAGAAGGCAAGAGACTGGTTGACACAGATGTAGCACGTAATTCAAGT
GATGACATTCCGAATAATCATATTCCAGGTGATCATATTCAGACAAGGCAACAGTGTTT
ACAGATGAAGAGTCCACTCTTTTGGAGAGCAGCAATTTACAAGGACCATTTACCACCC
ACTTTGGGAACACTAAGAAGTTGTTTTAGTTGGTCTGGAGGTCTTGGAGATTTTTCAAGA
ACGCCGAGCCCCTCTCCAAGCACAGCATTGCAGCAGTTCGGAAGAAAGAGCGATTCCCCC
ACCTCTTTCCTGAGAATAATATGTCTGATGTGTCGCAGTTAAAGAGCGAGGAGTCCAGT
GACGATGAGTCTCATCCCTTACGAGAAGAGGCATGTTCTTACAGTCCCAGGAAAGTGG
GAATTCCTACTGCAGAGTTCAAATGCATCAAAGCTTTCTCAGTGTCTAGTAAGGACTCT
GATTCAGAGGAATCTGATTGCAATATTAAGTACTTGACAGTCAAAGTGACCAGACCTCC
AAGCTACGTTTATCTCATTCTCAAAAAAGACACACCTCTAAGGAACAAGGTTCTCTGGG
CTATATAAGTCCAGTTCGAGACTCTCTTTCTACAACCAAGATCAAACCTCTAGGACCT
GCCAGAGCCAGTGGGCTGAGCAAGAAGCCGGAAGCATCCAGAAGAGAAAGCATCATAAT
GCCGAGAACAAGCCGGGTTACAGATCAAACCTCAATGAGCTCTGGAAAACTTTGGATT
AAAAAATTCTGA

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**Restriction Sites:** Please inquire

**ACCN:** NM\_003686

**OTI Disclaimer:** 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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_003686.3</a> , <a href="#">NP_003677.3</a>
<b>RefSeq Size:</b>	3138 bp
<b>RefSeq ORF:</b>	2412 bp
<b>Locus ID:</b>	9156
<b>UniProt ID:</b>	<a href="#">Q9UQ84</a>
<b>Cytogenetics:</b>	1q43
<b>Domains:</b>	HhH2, XPG_N, XPG_I
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency
<b>Protein Pathways:</b>	Mismatch repair
<b>Gene Summary:</b>	<p>This gene encodes a protein with 5' to 3' exonuclease activity as well as an RNase H activity. It is similar to the <i>Saccharomyces cerevisiae</i> protein Exo1 which interacts with Msh2 and which is involved in mismatch repair and recombination. Alternative splicing of this gene results in three transcript variants encoding two different isoforms. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (3) uses an alternate splice site in the 3' end of the coding region, resulting in a frameshift and use of an upstream stop codon, as compared to variant 1. It encodes isoform a, which is 43 aa shorter than isoform b.</p>