

Product datasheet for **MC200610**

Exo1 (NM_012012) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Exo1 (NM_012012) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Exo1
Synonyms:	5730442G03Rik; Msa
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC006671 sequence for NM_012012
 GGCTGCGCTTGCAGCAGCCGCTCGCCGCGCTTCTGAACCCAGGTTTGAGGAGCCACGGCGCCTGGAATG
 GACTTGTGTGCTATGCCTGTTTGGTTCGGGAGACGGGACTAAGTTAACTTGGCAGCATGGGGATTCAAGGG
 TTACTTCAGTTTCAAGAAAGCTTCTGAACCTGTCAACGTGAAGAAGTACAAAGGACAGGCAGTGGCTG
 TGGATACCTACTGTTGGCTTCAAAAGGGGCTATTGCTTGTGCTGAAAAGCTAGCCAAAGGGGAACCTAC
 AGATAGGTATGTAGGATTTTGTATGAAGTTTGTAAATATGCTGCTGTCTTATGGGGTCAAGCCGATTCTC
 ATATTTGACGGATGTACTTACCTTCTAAAAAGGAAGTGGAGCGGTCTCGAAGAGAGAGACGACAAAGCA
 ACCTTCTTAAAGGGAAGCAGCTTCTTCGAGAGGGCAAAGTGTGAGAAGCCGAGACTGCTTCGCTCGCTC
 TATCAACATCACGCACGCCATGGCCACAAAGTATAAAAAGCTGCTCGGGCCCTAGGAGTGGATTGCCTC
 GTGGCTCCGTATGAAGCTGATGCTCAGTTGGCCTACCTTAAACAAGGCTGGCATCGTGACGGCTGTCATCA
 CAGAGGACTCTGACCTCCTCGCATTTGGCTGTAAGAAGGTGATTTTAAAAATGGATCAGTTTGGAAATGG
 ACTGGAAGTGGACCAGGCACGGCTAGGCATGTGCAAGCAGCTTGGGGATGATTACGAGGAGAGAAGTTC
 CGGTACATGTGCATTCTGTCCGGCTGTGACTACCTCGCCTCCCTTCGTGGGATCGGCTTAGCCAAGGCC
 GCAAAGTGTGAGACTGGCCAATAACCCCGATATCGTGAAGGTTATCAAGAAAATGGGCATTATCTCAG
 GATGAATAAACGGTGCCGAGGATTACATCACAGGATTTATTCTGCAACAATACTTTCTCTACCAG
 CTCGTGTTTCGACCCCATCAAAGGAAGCTGGTCCCTCTGAATGCCTACGGAGATGACGTTAATCCCGAAA
 CACTGACTTACGCTGGGAGTACGTCGGTACTCTGTAGCTCTTCAGATCGCCCTTGAAATAGAGATGT
 AAATACTTTTGAACAGATTGATGACTACAGTCCAGACACCATGCCAGCCCACTCAAGAAGCCACAGCTGG
 AATGAGAAAGCAGGTCAGAAACCACTGGTACCAACAGCATTGGCACAAGAATTATTGTCTAGACTTG
 AGGTGAACAGTGTCTCCACGCTCCTCAACTGAAGGAAAAGCCAAGCACTTTGGGCTTAAACAAGTGT
 TAGTACTAAAGGGTAAATCTTCCAGGAAGTCTTGTGTGTTGAAAAGACCAAGAATGAAGCGCTGGT
 GAAGTACCTGTTGAGCCAGTATTCGTGAGTTTCAAAGAAGTCAAGGAAAATGGCTGTGGGGATGGCA
 CATCACTAACCTTCTAAAATGTCCAAGTCTGCCCGATTCTGGGACTGCTCACAAGCAGATGCACACA
 CACCCCGTCTAAGATGAGGAATAAATTTGCAACGTTCTTACAGAGGAGGAATGAAGAAAAGCGGTGCAGT
 GTGGTTCCAGGGACCAGAAGCAGTTTTTTTTGAGTTCTCAGGATTTTGCAATTCATACCAAAAAAAG
 AAAGCGGCCAGCCTCTAAATGAAACTGTGGCCACTGGCAAAGCCACCACCAGCCTCCTCGGGGCACTGGA
 CTGTCCAGACACGGAAGGCCACAAGCCGGTTGATGCAAAATGGGACGCACAATCTGAGCTCTCAGATTCCA
 GGCAATGCAGCTGTGTCTCCTGAGGATGAGGCTCAGTCTCTGAGACCAGCAAACCTTGGGGGCCATGT
 CCCCACCCAGTCTGGGGACACTAAGAAGCTGTTTCAGTTGGTCTGGCACTCTCAGGGAATTTTCTCGAAC
 TCCAAGTCCCTCAGCAAGCACTACATTGCAGCAGTTCGGGAGAAAAGAGCGACCCCTGCCTGTCTTCT
 GAGGCCTCTGCCGTGGTACTGACAGGTGCGACTCAAAGAGCGAGATGCTGGGTGAGACGTCTCAGCCCT
 TGCACGAGCTGGGCTGCTCCTCGCGTCTCAGGAAAGCATGGACTCCTCGTGCAGCCTAAACACGTGCGAG
 CCTGTCCAGCCTTCCAGTAGGGATTACAGTTTCAGAGGAGTCCGATTGTAACAATAAGTCACTTGATAAT
 CAAGGGGAACAGAACTCCAAGCAACACTTACCTCACTTTTCAAAGAAAAGACGGACTTAGACGGAACAAGG
 TTCTGGGCTCTGTAGGTCTAGTTCTATGGACTCTTTTCTACAACCAAGATCAAGCCCCTGGTGCCTGC
 CAGGGTCAAGTGGCCTGAGCAAGAAGTCAAGGAGCATGCAGACGAGAAAACACCATGATGTGGAGAACAAG
 CCAGGCCATACAGACGAAGATCAGCGAGCTCTGGAAAACTTTGGGTTTAAAAAGATTCTGAAAAGCTTC
 CTTCTTTGTAAGAAGCCCCTGTCTCCAGTCAAGGACAATATCCAACCTCACTCCAGAGACAGAAGATGAGAT
 CTTTAAACAAGCCCGAGTGTGTACGCGCTCAGAGAGCAATATTTCACTAAGTGCAGACCGTTGCCTACAAG
 AAAATCTTATCAACTGGAGAGATGATTAGTCTCAATGTCAATTTTTTAAATGGATTACATTTTGTATATT
 AACTTTGTGACTTTCTTTTGTCTAGCTTTTATATTTTATAGAAAAGCTAAATAGAAGAATAAATCTGTC
 TTTGACAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_012012
Insert Size: 2514 bp

OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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:	BC006671 , AAH06671
RefSeq Size:	2847 bp
RefSeq ORF:	2514 bp
Locus ID:	26909
UniProt ID:	Q9QZ11
Cytogenetics:	1 81.9 cM
Gene Summary:	<p>5'->3' double-stranded DNA exonuclease which may also possess a cryptic 3'->5' double-stranded DNA exonuclease activity. Functions in DNA mismatch repair (MMR) to excise mismatch-containing DNA tracts directed by strand breaks located either 5' or 3' to the mismatch. Also exhibits endonuclease activity against 5'-overhanging flap structures similar to those generated by displacement synthesis when DNA polymerase encounters the 5'-end of a downstream Okazaki fragment. Required for somatic hypermutation (SHM) and class switch recombination (CSR) of immunoglobulin genes. Essential for male and female meiosis. [UniProtKB/Swiss-Prot Function]</p>