

Product datasheet for **SC315538**

MCL1 (NM_021960) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCL1 (NM_021960) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCL1
Synonyms:	bcl2-L-3; BCL2L3; EAT; Mcl-1; MCL1-ES; mcl1/EAT; MCL1L; MCL1S; TM
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_021960 edited ATGTTTGGCCTCAAAGAAGACGGTAATCGGACTCAACCTCTACTGTGGGGGGCCGGC TTGGGGCCGGCAGCGGGCCGCCACCCGCCGGGAGGGCGACTTTTGGCTACGGAGAAG GAGGCCTCGGCCCGCGAGAGATAGGGGGAGGGAGGCCGGCGCGGTGATTGGCGAAGC GCCGGCGCAAGCCCCCGTCCACCCTCACGCCAGACTCCCGGAGGGTCGCGCGGCCGCCG CCCATTGGCGCCGAGGTCCCGACGTCACCGCACCCCGCGAGGCTGCTTTTCTTCGCG CCCACCCGCCGCGCGCCGCTTGAGGAGATGGAAGCCCGGCCGCTGACGCCATCATG TCGCCCCAAGAGGAGCTGGACGGGTACGAGCCGGAGCCTCTCGGGAAGCGCCGGCTGTC CTGCCGCTGCTGGAGTTGGTCGGGAATCTGGTAATAACACCAGTACGGACGGGTCCTA CCCTCGACGCCCGCCAGCAGAGGAGGAGGAGGACGAGTTGTACCGGCAGTCGCTGGAG ATTATCTCTCGGTACCTTCGGGAGCAGGCCACCCGGCCAAAGACACAAAGCCAATGGGC AGGTCTGGGGCCACCAGCAGGAAGGCGCTGGAGACCTTACGACGGTTGGGGATGGCGTG CAGCGCAACCACGAGACGGCCTTCCAAGGCATGCTTCGGAACCTGGACATCAAAAACGAA GACGATGTGAAATCGTTGTCTCGAGTGATCCATGTTTTACGCGACGGCGTAACAAAC TGGGGCAGGATTGTGACTCTCATTTCTTTTGGTGCCTTTGTGGCTAAACACTGAAGACC ATAAACCAAGAAAGCTGCATCGAACATTAGCAGAAAGTATCACAGACGTTCTCGTAAGG ACAAAACGGGACTGGCTAGTTAAACAAAGAGGCTGGGATGGGTTTGTGGAGTTCTCCAT GTAGAGGACCTAGAAGGTGGCATCAGGAATGTGCTGCTGGCTTTTGCAGGTGTTGCTGGA GTAGGAGCTGGTTTGGCATATCTAATAAGATAG
Restriction Sites:	NotI-NotI
ACCN:	NM_021960
Insert Size:	2400 bp



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OTI Disclaimer: 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.

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: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_021960.3.

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_021960.3](#), [NP_068779.1](#)

RefSeq Size: 4020 bp

RefSeq ORF: 1053 bp

Locus ID: 4170

UniProt ID: [Q07820](#)

Cytogenetics: 1q21.2

Domains: Bcl-2

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes an anti-apoptotic protein, which is a member of the Bcl-2 family. Alternative splicing results in multiple transcript variants. The longest gene product (isoform 1) enhances cell survival by inhibiting apoptosis while the alternatively spliced shorter gene products (isoform 2 and isoform 3) promote apoptosis and are death-inducing. [provided by RefSeq, Oct 2010]

Transcript Variant: This variant (1), also known as MCL-1L (long), represents the longest transcript and encodes the longest isoform (1).