

## Product datasheet for **SC312742**

### MCL1 (NM\_182763) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MCL1 (NM_182763) 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-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM\_182763 edited  
 CACCCCGTAGGACTGGCCGCCCTAAAACCGTGATAAAGGAGCTGCTCGCCACTTCTCACT  
 TCCGCTTCTTCCAGTAAGGAGTCGGGGTCTTCCCAGTTTTCTCAGCCAGGCGGGCGG  
 GCGACTGGCAATGTTTGGCCTCAAAGAAACGCGTAATCGGACTCAACCTCTACTGTGG  
 GGGGGCCGGCTTGGGGCCGGCAGCGGGCGGCCACCCGCCGGGAGGGCGACTTTTGGC  
 TACGGAGAAGGAGGCTCGGCCGGCAGAGATAGGGGAGGGGAGGCCGGCGCGGTGAT  
 TGGCGGAAGCGCCGGCGCAAGCCCCCTCCACCCTCACGCCAGACTCCCGGAGGGTTCG  
 CGCGCCGGCCGCGCCATTGGCGCGGAGTCCCGACGTACCAGCGACCCCGCGAGGCTGCT  
 TTTCTTCGCGCCACCCGCGCGCGCGCGCTTGAGGAGATGGAAGCCCGGCCGCTGA  
 CGCCATCATGTGCCCCAAGAGGAGCTGGACGGGTACGAGCCGGAGCCTCTCGGGAAGCG  
 GCCGGCTGCTCCTGCCGCTGCTGGAGTTGGTCGGGAATCTGGTAATAACACCAAGTACGGA  
 CGGGTCACTACCTCGACGCCGCCAGCAGAGGAGGAGGAGGACGAGTTGTACCGGCA  
 GTCGCTGGAGATTATCTCTCGGTACCTTCGGGAGCAGGCCACCGCGCCAAGGACACAAA  
 GCCAATGGGCAGGTCTGGGGCCACCAGCAGGAAGGCGCTGGAGACCTTACGACGGGTTGG  
 GGATGGCGTGCAGCGCAACCACGAGACGGCCTTCCAAGGATGGGTTTGTGGAGTTCTTCC  
 ATGTAGAGGACCTAGAAGGTGGCATCAGGAATGTGCTGCTGGCTTTTGCAGGTGTTGCTG  
 GAGTAGGAGCTGGTTTGGCATATCTAATAAGATAGCCTTACTGTAAGTCAATAGTTGAC  
 TTTTAACCAACCACCACCACCAAAAACAGTTTATGCAAGTTGGACTCCAAGCTGTAAC  
 TTCCTAGAGTTGCACCCTAGCAACCTAGCCAGAAAAGCAAGTGGCAAGAGGATTATGGCT  
 AACAAAGATAAAATACATGGGAAGAGTGTCCCCATTGATTGAAGAGTCACTGTCTGAAAAG  
 AAGCAAAGTTCAGTTTACGAAACAAACAACTTTGTTTGGGAAGCTATGGAGGAGGACTT  
 TTAGATTTAGTGAAGATGGTAGGGTGGAAAGACTTAATTTCTTGTGAGAACAGGAAAAG  
 TGGCCAGTAGCCAGGCAAGTCATAGAATTGATTACCCGCCGAATTCATTAATTTACTGTA  
 GTGTTAAGAGAAGCACTAAGAATGCCAGTGACCTGTGTAAGGTTACAAGTAATAGAAGT  
 ATGACTGTAAGCCTCAGTACTGTACAAGGAAGCTTTTCTCTCTAATTAGCTTTCCC  
 AGTATACTTCTTAGAAAAGTCCAAGTGTTTCCAGGACTTTTATACCTGTTATACTTTGGCTT  
 GTTCCATGATTCTTACTTTATTAGCCTAGTTTATACCAATAATACTTGACGGAAGGCT



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CAGTAATTAGTTATGAATATGGATATCCTCAATTCTTAAGACAGCTTGTAATGTATTTG  
 TAAAAATTGTATATATTTTTACAGAAAGTCTATTTCTTTGAAACGAAGGAAGTATCGAAT  
 TTACATTAGTTTTTTTACATACCCTTTTGAACTTTGCAACTTCCGTAATTAGGAACCTGTT  
 TCTTACAGCTTTTCTATGCTAACTTTGTTCTGTTTCTAGAGTGTATACAGAACGA  
 ATTGATGTGAACTGTATGCAGACTGGTGTAGTGGAAACAATCTGATAACTATGCAGGT  
 TTAATTTTTCTTATCTGATTTTTGGTAAGTATTCCTTAGATAGGTTTTTCTTTGAAAACT  
 GGGATTGAGAGGTTGATGAATGGAAATTTCTTCACTTCATTATATGCAAGTTTTCAATAA  
 TTAGGTCTAAGTGGAGTTTTAAGGTTACTGATGACTTACAAATAATGGGCTCTGATTGGG  
 CAATACTCATTTGAGTTCCTTCCATTTGACCTAATTTAACTGGTAAAATTTAAAGTGAAT  
 TCATGGGCTCATCTTTAAAGCTTTTACTAAAAGATTTTACAGTGAATGGAACCTATTAGC  
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 TAATAAATTATAAAATGATGGCTTGAAAAGCAGGCTAGTCTAACCATGGTGCTATTATT  
 AGGCTTGTGTTACACACACAGGTCTAAGCCTAGTATGTCAATAAAGCAAATACTTACT  
 GTTTTGTTTCTATTAATGATTCCCAAACCTTGTGCAAGTTTTTGCATTGGCATCTTTGG  
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 CCATCCCTGAACTCTTTCTAGCCCTTTTAGATTTTGGCACTGTGAAACCCCTGCTGGAAA  
 CCTGAGTGACCCTCCCTCCCAAGAGTCCACAGACCTTTCATCTTTCACGAACCTTGA  
 TCCTGTTAGCAGGTGGTAATACCATGGGTGCTGTGACACTAACAGTCATTGAGAGGTGGG  
 AGGAAGTCCCTTTTCTTGACTGGTATCTTTTCAACTATTGTTTTATCCTGTCTTTGGG  
 GGCAATGTGTCAAAGTCCCTCAGGAATTTTCAAGAGAAAGAACAATTTATGAGGCTTT  
 CTCTAAAGTTTCTTTGTATAGGAGTATGCTCACTTAAATTTACAGAAAGAGGTGAGCTG  
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 AGGGTCATTTGAAAGCTTCAGTCTCGGAACATGACCTTTAGTCTGTGGACTCCATTTAAA  
 AATAGGTATGAATAAGATGACTAAGAATGTAATGGGAAGAAGTCCCTGCTGCCATC  
 TCAGAGCCATAAGGTCATCTTTGCTAGAGCTATTTTACCTATGTATTTATCGTTCTTGA  
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 TTAATTAATCTTAAGATCTGGTTACGGTAACTAAAAAGCCTGTCTGCCAAATCCAGTGG  
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 TAGGACACCCCAAGTGGTTTGGGAAAGGAGGAGGGGAGTGGTGGGTTTATAGGGGAGGA  
 GGAGGCAGGTGGTCTAAGTGCTGACTGGCTACGTAGTTTCGGGCAATCCTCCAAAAGGGA  
 AAGGGAGGATTTGCTTAGAAGGATGGCGCTCCCACTGACTACTTTTTGACTTCTGTTTGT  
 CTTACGCTTCTCTCAGGGAAAAACATGCAGTCTCTAGTGTTCATGTACATTCTGTGGG  
 GGGTGAACACCTTGGTTCTGGTTAAACAGCTGTACTTTTATAGCTGTGCCAGGAAGGGT  
 TAGGACCAACTACAAATTAATGTTGGTTGTCAAATGTNNAGTGTGTTNNNCCCTAACT  
 TTCTGTTTTTTTCTGAGAAAAAAAATAAATCTTTTATTCAAAAAAM  
 TCGACTCTAGATTGCGGCCGCGTATAGCTGTTTCTGAAACAGAACCCGGGTGGCATNC  
 CCTGTGACCCCTNCCNCCAGTGTCTCNCNCTGGNCTGGNAAGTGCCATCNCCAAAGGGGC  
 NNNGAAAAANNNNNNNNNNNNNNNNNNN

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_182763 unedited  GACGCCCCAGAGAGAGGAGGACGAGTTGTACCGGCAGTCGCTGGAGATTATCTCTCGGTA  CCTTCGGGAGCAGGCCACCGGCGCCAAGGACACAAAGCCAATGGGCAGGTCTGGGGCCAC  CAGCAGGAAGGCGCTGGAGACCTTACGACGGGTGGGGATGGCGTGCAGCGCAACCACGA  GACGGCCTTCCAAGGATGGGTTTGTGGAGTTCTCCATGTAGAGGACCTAGAAGGTGGCA  TCAGGAATGTGCTGCTGGCTTTTGCAGGTGTTGCTGGAGTAGGAGCTGGTTTGGCATATC  TAATAAGATAGCCTTACTGTAAGTGAATAGTTGACTTTTAACCAACCACCACCACCACC  AAAACCAGTTTATGCAGTTGGACTCCAAGCTGTAACCTCCTAGAGTTGCACCCTAGCAAC  CTAGCCAGAAAAGCAAGTGGCAAGAGGATTATGGCTAACAAAGAATAAATACATGGGAAGA  GTGCTCCCATTGATTGAAGAGTCACTGTCTGAAAGAAGCAAAGTTCAGTTTCAGCAACA  AACAACTTTGTTTGGGAAGCTATGGAGGAGGACTTTTAGATTTAGTGAAGATGGTAGGG  TGGAAAGACTTAATTTCTTGTGAGAACAGGAAAGTGGCCAGTAGCCAGGCAAGTCATA  GAATTGATTACCCGCCGAATTCATTAATTTACTGTAGTGTAAAGAGAAGCACTAAGAATG  CCAGTGACCTGTGTAAGTACAAGTAATAGAATGACTGTAAGCCTCAGTACTGTA  CAAGGGAAGCTTTTCTCTCTCTAATTAGCTTTCCAGTATACTTCTTAGAAAGTCCAAG  TGTTTCAGACTTTATACCTGTATACTTTGGCTTGGTCCATGATTCTACTTTATTAGCCCT  AGTTTATCACCAATAATACCTTGACC</p>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_182763
<b>Insert Size:</b>	4000 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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>

RefSeq: [NM\\_182763.1](#), [NP\\_877495.1](#)

RefSeq Size: 3772 bp

RefSeq ORF: 816 bp

Locus ID: 4170

UniProt ID: [Q07820](#)

Cytogenetics: 1q21.2

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 (2), also known as MCL-1S (short), lacks an alternate exon that causes a frameshift, compared to variant 1. The resulting protein (isoform 2) has a distinct C-terminus, compared to isoform 1.