

Product datasheet for RC217440

MCL1 (NM_182763) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCL1 (NM_182763) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MCL1
Synonyms:	bcl2-L-3; BCL2L3; EAT; Mcl-1; MCL1-ES; mcl1/EAT; MCL1L; MCL1S; TM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217440 representing NM_182763 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTGGCCTCAAAGAAACGCGGTAATCGGACTCAACCTCTACTGTGGGGGGCCGGCTTGGGGCCG
GCAGCGGCGCGCCACCCGCCGGGAGGGCGACTTTTGGCTACGGAGAAGGAGGCCTCGGCCGGCGAGA
GATAGGGGAGGGGAGGCCGGCGCGGTATTGGCGGAAGCGCGCGCAAGCCCCCGTCCACCCTCAG
CCAGACTCCCGGAGGGTCGCGCGCCGCCCCATTGGCGCCGAGGTCCCGACGTCACCGCGACCCCCG
CGAGGCTGCTTTCTTCGCGCCACCCGCCGCGCGCGCGCTTGAGGAGATGGAAGCCCCGGCCGCTGA
CGCCATCATGTCGCCGAAGAGGAGCTGGACGGGTACGAGCCGGAGCCTCTCGGGAAGCGCCGGCTGTC
CTGCCGCTGCTGGAGTTGGTCGGGAATCTGTAATAACACCAAGTACGGACGGGTCACTACCCTCGACGC
CGCCGCCAGCAGAGGAGGAGGAGGACGAGTTGTACCGGCAGTCGCTGGAGATTATCTCTCGGTACCTTCG
GGAGCAGGCCACCGCGCCAAGGACACAAGCCAATGGGCAGGTCTGGGGCCACCAGCAGGAAGGCGCTG
GAGACCTACGACGGGTTGGGATGGCGTGCAGCGCAACCACGAGACGGCCTTCCAAGGATGGGTTTGTG
GAGTTCTTCCATGTAGAGGACCTAGAAGGTGGCATCAGGAATGTGCTGCTGGCTTTTGCAGGTGTTGCTG
GAGTAGGAGCTGGTTTGGCATATCTAATAAGATAGCCTTACTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC217440 representing NM_182763
 Red=Cloning site Green=Tags(s)

MFGLKRNAVIGLNLVYCGGAGLGAGSGGATRPGGRLATEKEASARREIGGGEAGAVIGGSAGASPPSTLT
 PDSRRVARPPPIGAEVPDVTATPARLLFFAPTRRAAPLEEMEAPAADAIMSPEEELDGYEPEPLGKRPAV
 LPLLELVGESGNTSTDGSLPSTPPPAEEEEDELRYQSLEIISRYLREQATGAKDTKPMGRSGATSRKAL
 ETLRRVGDGVQRNHETAFQGWVCGVLPGRPRRWHQECAAAGFCRCCWSRSWFGISNKIAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3034_e12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_182763

ORF Size: 813 bp

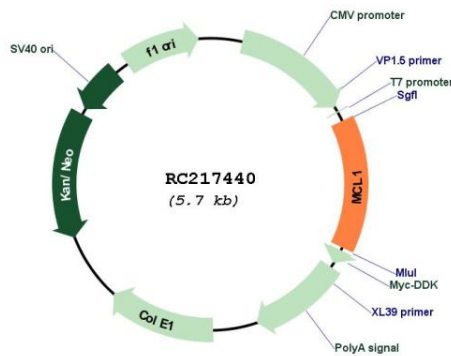
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

- 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_182763.2](#), [NP_877495.1](#)
- RefSeq Size:** 3859 bp
- RefSeq ORF:** 816 bp
- Locus ID:** 4170
- UniProt ID:** [Q07820](#)
- Cytogenetics:** 1q21.2
- Protein Families:** Druggable Genome, Transmembrane
- MW:** 28.7 kDa
- 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]

Product images:



Circular map for RC217440