

Product datasheet for RC231044

MCL1 (NM_001197320) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MCL1 (NM_001197320) 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: >RC231044 representing NM_001197320
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTTGGCCTCAAAGAAACGCGGTAATCGGACTCAACCTCTACTGTGGGGGGCCGGCTTGGGGCCG
 GCACGGCGGGCCACCCGCCGGGAGGGCGACTTTTGGCCACCGCGCCAAGGACACAAAGCCAATGGG
 CAGGTCTGGGGCCACCAGCAGGAAGGCGCTGGAGACCTTACGACGGGTTGGGGATGGCGTGCAGCGCAAC
 CACGAGACGGCCTTCCAAGGCATGCTTCGAAACTGGACATCAAACGAAGACGATGTAAATCGTTGT
 CTCGAGTGATGATCCATGTTTTAGCGACGGCGTAACAACTGGGGCAGGATTGTGACTCTATTTCTTT
 TGGTGCCTTTGTGGCTAAACACTTGAAGACCATAAACCAAGAAAGCTGCATCGAACCATAGCAGAAAGT
 ATCACAGACGTTCTCGTAAGGACAAAACGGGACTGGCTAGTTAAACAAAGAGGCTGGGATGGGTTTGTGG
 AGTTCTTCCATGTAGAGGACCTAGAAGGTGGCATCAGGAATGTGCTGCTGGCTTTTGCAGGTGTTGCTGG
 AGTAGGAGCTGGTTTGGCATATCTAATAAGA

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231044 representing NM_001197320
 Red=Cloning site Green=Tags(s)

MFGLKRNAVIGLNL YCGGAGLGAGSGGATRPGRLLATGAKDTKPMGRSGATSRKALETLLRRVGDGVQRN
 HETAFQGLRKLDIKNEDDVKLSRVMIHVFSDGVTNWGRIVTLISFGAFVAKHLKTINQESCIEPLAES
 ITDVLVRTKRDWLVKQRGWDGFVEFFHVEDLEGGIRNVLLAFAGVAGVAGLAYLIR

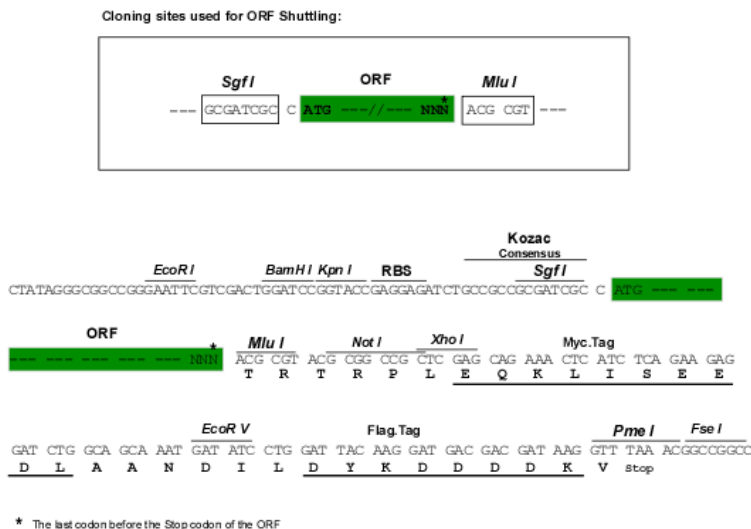
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001197320

ORF Size: 591 bp

OTI Disclaimer: 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_001197320.1](#), [NP_001184249.1](#)

RefSeq ORF: 594 bp

Locus ID: 4170

UniProt ID: [Q07820](#)

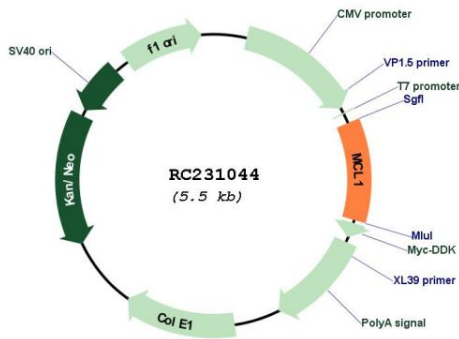
Cytogenetics: 1q21.2

Protein Families: Druggable Genome, Transmembrane

MW: 21.7 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 RC231044