

## Product datasheet for **RG231044**

### **MCL1 (NM\_001197320) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MCL1 (NM\_001197320) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MCL1  
**Synonyms:** bcl2-L-3; BCL2L3; EAT; Mcl-1; MCL1-ES; mcl1/EAT; MCL1L; MCL1S; TM  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG231044 representing NM\_001197320  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGTTTGGCCTCAAAGAAACGCGGTAATCGGACTCAACCTCTACTGTGGGGGGCCGGCTTGGGGCCG  
GCACGGCGGGCCACCCGCCGGGAGGGCGACTTTTGGCCACCGCGCCAAGGACACAAAGCCAATGGG  
CAGGTCTGGGGCCACCAGCAGGAAGGCGCTGGAGACCTTACGACGGTGGGGATGGCGTGCAGCGCAAC  
CAGGAGACGGCCTTCCAAGGCATGCTTCGAAACTGGACATCAAACGAAGACGATGTAAATCGTTGT  
CTCGAGTGATGATCCATGTTTTAGCGACGGCGTAACAACTGGGGCAGGATTGTACTCTATTTCTTT  
TGGTGCCTTTGTGGCTAAACACTTGAAGACCATAAACCAAGAAAGCTGCATCGAACCATTAGCAGAAAGT  
ATCACAGACGTTCTCGTAAGGACAAAACGGGACTGGCTAGTTAAACAAAGAGGCTGGGATGGGTTTGTGG  
AGTTCTCCATGTAGAGGACCTAGAAGGTGGCATCAGGAATGTGCTGCTGGCTTTTGCAGGTGTTGCTGG  
AGTAGGAGCTGGTTTGGCATATCTAATAAGA

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG231044 representing NM\_001197320  
Red=Cloning site Green=Tags(s)

MFGLKRNAVIGLNL YCGGAGLGAGSGGATRPGRLLATGAKDTKPMGRSGATSRKALETLLRRVGDGVQRN  
HETAFQGLRKLDIKNEDDVKSLSRVMIHVFSDGVTNWGRIVTLISFGAFVAKHLKTINQESCIEPLAES  
ITDVLVRTKRDWLVKQRGWDGFVEFFHVEDLEGGIRNVLLAFAGVAGVAGLAYLIR

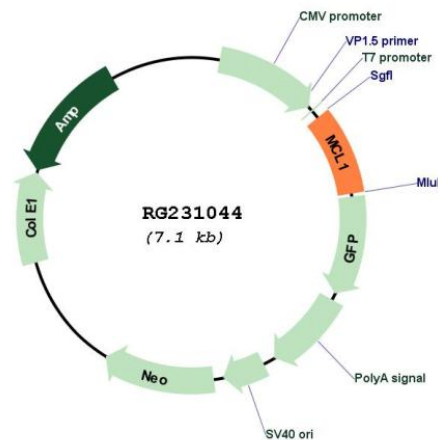
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**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 Size:** 3648 bp

**RefSeq ORF:** 594 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]