

## Product datasheet for **MC227487**

### **Mycl (NM\_001303121) Mouse Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mycl (NM_001303121) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mycl
Synonyms:	AW536278; bHLHe3; bHLHe38; L-myc; L-myc; Lmyc; Lmyc-; Lmyc-1; Lmyc1; Mycl1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC227487 representing NM_001303121 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGTGTGTGTGTGCGGGCTGCCGGGCTTCCCCGAGCCGGCGGGGAGCCGCTCCGCTCCAGGTGGCGGGCG  
GCGGGAGCGAGGGAGCGGACATGGACTTCGACTCGTATCAGCACTATTTCTACGACTATGACTGCGGAGA  
GGATTTCTACGCTCCACGGCGCCAGCGAGGACATCTGGAAGAAATTCGAGCTGGTGCCGTCGCCCCC  
ACGTCGCCGCCCTGGGGCTCCGGTCCCGCGCCGTGGACCCAGCCTCTGGGATTAATCCCGGGGAGCCGT  
GGCCTGGAGGGGGTGCCGGGACGAGGCGGAATCTCGGGGCCATTCGAAAGCCTGGGGCAGGAATTATGC  
TTCCATCATTGCGCGTGAATGTGAGCGGCTTCTCCGCCCGAGAACGGCTGGAGAGAGTGGTGAGC  
GACAGGCTGGCCCCAGGCGCGCCCCGGGGAACCCGCCAAAGCGCCCGTACCCCGGACGGCACTCCTA  
GTCTGGAAGCCAGTAACCCGGCGCCCGCCACCCAAATGTGAGCTGGGCGAGCCCAAGACTCAGGCCTGCTC  
CGGGTCCGAGAGCCCCAGCGATTCTGAAGGTGAAGAGATTGACGTGGTGACCGTGGAAGAGGCGATCT  
CTGGACATCCGAAAGCCAGTCACCATCACGGTGCAGCAGACCCCTGGACCCCTGCATGAAGCACTTCC  
ATATCTCTATCCACCAACAGCAGCATAACTATGCTGCCGTTTTCCTCCAGAAAGTTGCTCTCAAGAGGG  
GGATCCTGAGCCAGGTCCCCAGGAAGAGGCTCCGGAGATAGAAGCTCCCAAGGAGAAAGAGGAGGAGAA  
GAGGAAGAGGAGGAAGAAGAGATTGTGAGCCCCCACCTGTGGAAGTGAGGCTCCCGAGTCTGCCACC  
CCAAACCTGTGAGTTCTGACACTGAGGACGTGACCAAGAGGAAGAACCATAACTTCTTGGAAACGAAAAAG  
GAGGAATGACCTCCGCTCCCGGTTCTAGCCCTGCGGGACCAAGGTTCCACCCCTGGCCAGCTGCTTAAG  
GCCCCAAAGTCGTGATCCTCAGCAAGGCGTTAGAATACTTGAGGCTTTGGTGGGGGCTGAAAAGAAAA  
TGGCTACAGAGAAAGGCAGCTCCGGTGTGCGCAACAGCAACTGCAAAAGAGAATCGCGTACCTCAGTGG  
CTACTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001303121
<b>Insert Size:</b>	1197 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_001303121.1</a> , <a href="#">NP_001290050.1</a>
<b>RefSeq Size:</b>	3323 bp
<b>RefSeq ORF:</b>	1197 bp
<b>Locus ID:</b>	16918
<b>UniProt ID:</b>	<a href="#">P10166</a>
<b>Cytogenetics:</b>	4 57.36 cM
<b>Gene Summary:</b>	<p>This gene encodes a basic helix-loop-helix leucine zipper (bHLHZip) protein that heterodimerizes with another bHLHZip protein to drive transcription of targets important for proliferation, apoptosis and differentiation. Mice lacking this gene product show marked decrease in T-cell priming during bacterial and viral infections. In humans, this gene was found to be amplified in small-cell lung cancers. Alternate splicing of this gene results in multiple variants. [provided by RefSeq, Dec 2014]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site in the 5' region and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is longer than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>