

## Product datasheet for **RN201844**

### **Mlxipl (NM\_133552) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mlxipl (NM_133552) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mlxipl
Synonyms:	bHLHd14; ChREBP; Wbscr14; WS-bHLH
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN201844 representing NM\_133552  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCGCGCTGGCGGATCTATCCGTGAACCTGCAGTCCCCCGGGTCTCCAGCCCGGATTCCG  
 ACTCGGATACAGACTTGGAGGATCCGAGTCCCCGGCGCAGCGCGGGTGGCCTGCACCGATCACAGGTCAT  
 TCACAGCGGACACTTCATGGTGTCTCGCCGACAGCGACTCGCTGACCCGGCGCAGCGACAGGAGGGG  
 CCCGTGGGGCTCGCCGACTTCGGGCCGCGCAGCATCGATCCGACACTCACCCGCCTCTCGAATGCTTGA  
 GCCTGGCTTACAGCGCAAGCTGGTGTCTCCAAAGTGAAGAAGTCAAAGGCCTCAAGTTGCTATGCCG  
 GGACAAGATTGGCTGAACAACGCCATCTGGAGAGCCTGGTACATTAGTATGTGCAACGGAGGAAGAGC  
 CCAGTATGTGGCTTCGTAACCTCTGCAGGGGTGAGAAGCAGATGAGCACCGGAAACCTGAGGCTGTTG  
 TCTTGGAGGTAATTACTGGAAGCGCGCATCGAGGTGGTATGCGTGAATACCACAAGTGGAGAATCTA  
 CTACAAGAAGCGGCTCCGTAAGTCCAGCAGGGAAGGGGATTTCTGGCTCCCAAGCAGGTGGAAGTGGG  
 TGGCCGCCACAGAGAGATGGTGCGAACAGCTTCTCCAGCGTGGTGCCTGTGCTGCTTGGGGGCTCCG  
 AGGAGGAGCCTGGGGGCCGCGCAGCTTCTCGACTTGGACTGCTTCTGTCCGATATCTCCGACACACTCTT  
 CACCATGACACAGCCAGCCCTCGTCCCTGCAGCTGCCCTCAGAAGACGCTTATGTTGGCAATGCTGAC  
 ATGATCCAGCCAGACCTGACGCCACTGCAGCCAGCCTGGATGACTTCATGGAGATATCAGATTTCTTCA  
 CCAATTATCGCCCCCTCAGACGCCACATCTTCAAATCCCAGAGCCCCCAGCTTTGGCCCCATGGC  
 TGACTCCCTCTCAGCGGTGGGATCCTGGGCCAGAGATGCCATCTCCAGCCTCCGCTTCTCTCTCTCG  
 GGGATGACCCCTCTCAGGGAATACACGTCTCCAGGCTCGAAACAGTGTCTGGACCTGTGATCCCA  
 GCACCTTCCGAGCTCTGAATTCCTTCTCTGAAGACCAAGACCAAGATGCCACCTGTCTCTCTCTCT  
 GACTCCTCTCTCCGTACCCCGCCCTGTCAAGGTGCATGGCTTAGAGCCCTGCACCTCCATCTCCCTTC  
 CCCACGATGGCTCCACCTCCTGCTTGTGTGAGAAGAGCCTCTTCTCTGCAAGGTTCCCTTACCA  
 CAGTCCCTCCCGCTCCAGGAGTGTACACCTTCTGCACCCACAACCTTGTTCACGCCACAGCCTGG  
 CCCTGGCCCTGGCCCTGTCCCTTCCCGTAGACCATCTGCCCATGGGTACCTGGAACCTGTCTTTGGG  
 CCTCACTTACGGTGCCTCAGGGTGTGCAGCCAGATGCAAGCCCTGCTCTCCACCTCCTGGGGACGAA  
 AAGCCAGTCCACCACCTTGACCTCTGCCACTGCCAGCCACGCGCCACTGCTACTGCCAGAGACAACA  
 CCCCTGCCTTACACAGCTGCTCAGGGCAGCAAGCCTGAACAAGTACTGGAACCTTCCACTGTGCCAGC  
 ACCCTCCTCCGGCTCCAGAGTCCCGGATGCAGTCCCTGAAATCCCCGTGTCCTGTCATTTTACCCC  
 CAATCCCAGCCCTACACCACCTAGGCCACCTCCAGGCCCTGCCACATTGGCTCCTCCAGTCCCTGGT  
 TGTCCCCAAAGCAGAGAGGCTCTCACTCCAGCATCCAGCGGAGTGAGCGGCGACCATCAGGGGATCTC  
 AACTCCATTCAACCCCGGGGGGACTGAGTGTCCACCTGTCTCCCCCTCAAAGTGTCTTAAAGCCGGGTC  
 GTGTAGACAACAACAAGTGGAGAACCCTGCAATCACACACATCTCCGCAGAGCAGAAGAGGCGTTTCAA  
 TATTAAGCTAGGATTTGACACTTGCACGGACTTGTGACGACGCTCAGTGCACAGCCAGCCAGCCTCAAGGTG  
 AGCAAAGCAACCACGCTTCAAGAGACGGCGGAGTACATCTGATGCTACAGCAGGAGCGGGCGCCATGC  
 AGGAGGAAGCGCAGCAACTGAGGGATGAAATAGAGGAGCTCAATGCTGCCATCACTTGTGCCAGCAGCA  
 GCTACCGGCCACCGGGTGCCCATCACACATCAGCGCTTTGACCAGATGCGGGACATGTTTATGACTACT  
 GTCCGGACCCGACGCTGCACAACCTGGAAGTCTGGGTATTAGCATCCTCATCCGACCTTTATTGAGT  
 CCTTCAATGGGATGGTGTCTACCGCAAGCTTGCACAGCCTCCGCCAGACCTCACTGGCATGGCTGGACCA  
 GTACTGTTCCCTGCCTGCTCTCCGGCAACTGTCTGAATTCCTTCCGAGCTCAGCACTTCCACCAGC  
 ATCCTGACTGACCCGAGCCTCGTGCCTGAGCAAGCCACAAGGCGAGTCACAGAGGTCCTCCGGCAGAC  
 CATTATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_133552

<b>Insert Size:</b>	2598 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>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>RefSeq:</b>	<u><a href="#">NM_133552.1</a></u> , <u><a href="#">NP_598236.1</a></u>
<b>RefSeq Size:</b>	3201 bp
<b>RefSeq ORF:</b>	2598 bp
<b>Locus ID:</b>	171078
<b>UniProt ID:</b>	<u><a href="#">Q8VIP2</a></u>
<b>Cytogenetics:</b>	12q12
<b>Gene Summary:</b>	binds the carbohydrate responsive element and regulates transcription of 1-type pyruvate kinase gene (1-PK); DNA binding activity is inhibited by AMP-activated protein kinase (AMPK) phosphorylation of Ser596 [RGD, Feb 2006]