

## Product datasheet for **RG224283**

### MLX (NM\_170607) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MLX (NM_170607) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MLX
Synonyms:	bHLHd13; MAD7; MXD7; TCFL4; TF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224283 representing NM_170607 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGGAGCCGGCGCCTCTCCGAGGACCCTTGGGTCAAGGCAAGCCCCGTGGGCGCGCACGCCGGCG  
AGGGGAGGGCGGGTCTGGGCTCGTGCACGTAGGGGGCCGGAAGACGAGGGGCTTCCCTCTGTCCCCAAA  
GTCCCCACGCTCTCCGTGCCCGGGGCTGCAGAGAAGACAGCTCTACCCCGCGTGTGCCAAGGTGGAG  
TATGCCTACAGCGACAACAGCCTGGACCCCGGGCTTTTTGTAGAAAGCACCCGCAAGGGGAGTGTAGTGT  
CCAGAGCTAATAGCATCGGTTCCACCAGTGCCTTCTGTCCCCAACACAGATGATGAGGACAGTGATTA  
CCACCAGGAGCCTACAAGGAGTCTACAAGACCGGCGGCGCGCACACACTCAGGCTGAGCAGAAG  
AGGAGGGACGCCATCAAGAGAGGCTATGATGACCTTCAGACCATCGTCCCACTTGCCAGCAGCAGGACT  
TCTCCATTGGCTCCCCAAAGCTCAGCAAAGCCATCGTTCTACAAAAGACCATTGACTACATTCAAGTTTTT  
GCACAAGGAGAAGAAAAAGCAGGAGGAGGAGGTGTCCACGTTACGCAAGGATGTCACCGCCCTAAAGATC  
ATGAAAGTGAATGAGCAGATTGTGAAGGCACACCAGGACAACCCCATGAAGGGGAGGACCAGGTCT  
CTGACCAGGTCAAGTTCAACGTGTTTCAAGGCATCATGGATTCCCTGTCCAGTCCTTCAATGCCTCCAT  
CTCAGTGGCCAGCTTCCAGGAGCTGTGACGCTGTGCTTCAGCTGGATCGAGGAGCAGTGAAGCCCTCAG  
ACCTGCGGGAGATTGTGATTGGCGTCTGCACCAATTGAAAAACCAGCTTTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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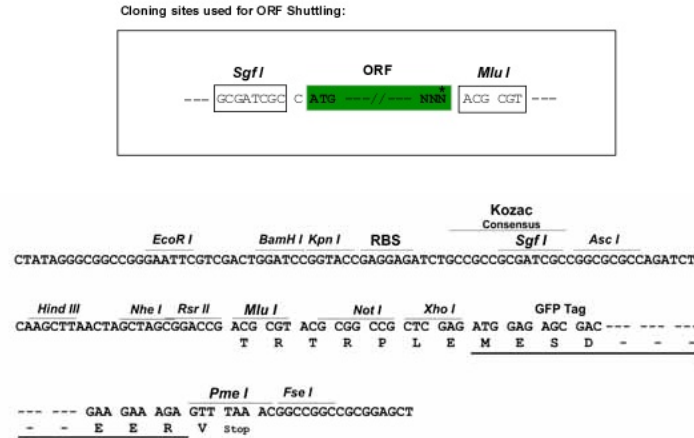
**Protein Sequence:** >RG224283 representing NM\_170607  
Red=Cloning site Green=Tags(s)

MTEPGASPEDPWVKASPVGAHAGEGRAGRARARRGAGRRGASLLSPKSPTLSVPRGCREDSHPACAKVE  
 YAYSDNSLDPGLFVESTRKGSVSVRANSIGSTSASSVPNTDDESDYHQEAYKESYKDRRRRAHTQAEQK  
 RRDAIKRGYDDLQTIPTCQQQDFSIGSQKLSKAIVLQKTIQFLHKEKKKQEEVSTLRKDVTKLKI  
 MKVNYEQIVKAHQDNPHGEDQVSDQVKFNVFQGMDSLQSFNASSVASFQELSACVFSWIEEHCKPQ  
 TLREIVIGVLHQLKNQLY

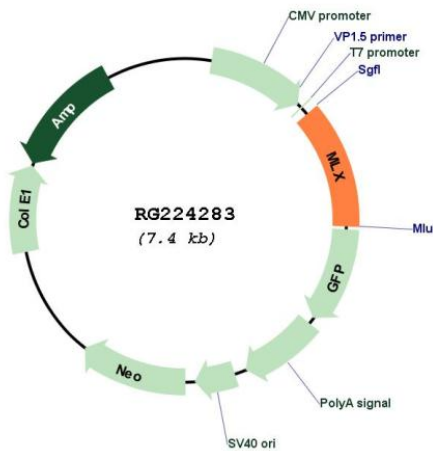
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_170607

**ORF Size:** 894 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_170607.2</a> , <a href="#">NP_733752.1</a>
<b>RefSeq Size:</b>	2568 bp
<b>RefSeq ORF:</b>	897 bp
<b>Locus ID:</b>	6945
<b>UniProt ID:</b>	<a href="#">Q9UH92</a>
<b>Cytogenetics:</b>	17q21.2
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	The product of this gene belongs to the family of basic helix-loop-helix leucine zipper (bHLH-Zip) transcription factors. These factors form heterodimers with Mad proteins and play a role in proliferation, determination and differentiation. This gene product may act to diversify Mad family function by its restricted association with a subset of the Mad family of transcriptional repressors, namely, Mad1 and Mad4. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]