

## Product datasheet for **MG200310**

### Urm1 (NM\_026615) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Urm1 (NM\_026615) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Urm1  
**Synonyms:** 2900073H19Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200310 representing NM\_026615  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCGCCCTTATGTGTGAAGGTGGAGTTCGGAGGTGGTGCAGAGCTCCTGTTTGTGGGTA  
AGCATCAAGTCGCCTTGCTGGCAGGAGGAACCTGGGATATACGGAACCTCCTGTCTGGATCAAGAA  
GAATTTGCTAAAAGAGCGACCAGAGCTGTTTCATCCAGGGAGACAGTGTGCGGCCAGGAATCCTGGTCTG  
ATTAATGATGCCGACTGGAACTGCTGGGGAGCTGGACTACCAGCTGCAGGACCAAGACAGCATCCTCT  
TCATCTCCACACTGCACGGCGGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200310 representing NM\_026615  
Red=Cloning site Green=Tags(s)  
MAAPLCVKVEFGGAELLFDGVKKHQVALPGQEEPWDIRNLLVWIKNLLKERPELFIQGDSVRPGILVL  
INDADWELLGELDYQLQDQDSILFISTLHGG

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI

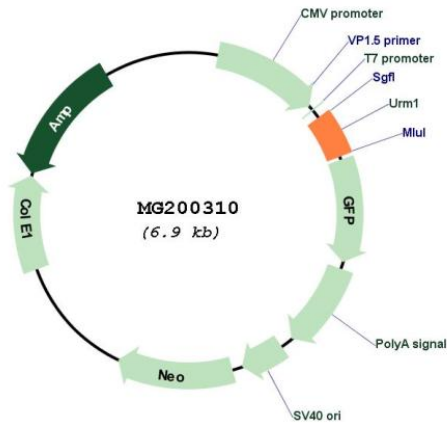


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_026615

ORF Size: 303 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](#)

<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_026615.4</a>
<b>RefSeq Size:</b>	2144 bp
<b>RefSeq ORF:</b>	306 bp
<b>Locus ID:</b>	68205
<b>UniProt ID:</b>	<a href="#">Q9D2P4</a>
<b>Cytogenetics:</b>	2 B
<b>Gene Summary:</b>	Acts as a sulfur carrier required for 2-thiolation of mcm(5)S(2)U at tRNA wobble positions of cytosolic tRNA(Lys), tRNA(Glu) and tRNA(Gln). Serves as sulfur donor in tRNA 2-thiolation reaction by being thiocarboxylated (-COSH) at its C-terminus by MOCS3. The sulfur is then transferred to tRNA to form 2-thiolation of mcm(5)S(2)U. Also acts as a ubiquitin-like protein (UBL) that is covalently conjugated via an isopeptide bond to lysine residues of target proteins such as MOCS3, ATPBD3, CTU2, USP15 and CAS. The thiocarboxylated form serves as substrate for conjugation and oxidative stress specifically induces the formation of UBL-protein conjugates.[UniProtKB/Swiss-Prot Function]