

## Product datasheet for **RC231527**

### URM1 (NM\_001265582) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** URM1 (NM\_001265582) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** URM1  
**Synonyms:** C9orf74  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC231527 representing NM\_001265582  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

**ATGGCTGCGCCCTTGTCAGTGGAGGTGGAGTTCGGAGGTGGTGGGAGCTCCTGTTGACGGTATTAAGA  
AACATCGAGTCACTTTGCCTGGACAGGAGGAACCTGGGACATCCGGAACCTGCTCATCTGGATCAAGAA  
GAATTTGCTAAAAGAGCGCCAGAGTTGTCATCCAGGGAGACAGCGTG**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RC231527 representing NM\_001265582  
**Red=Cloning site Green=Tags(s)**  
  
MAAPLSVEVEFGGAELLFDGIKKHRVTLPGQEPPDIRNLLIWIKNLLKERPELFIQGDSV  
  
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:** Sgfl-MluI

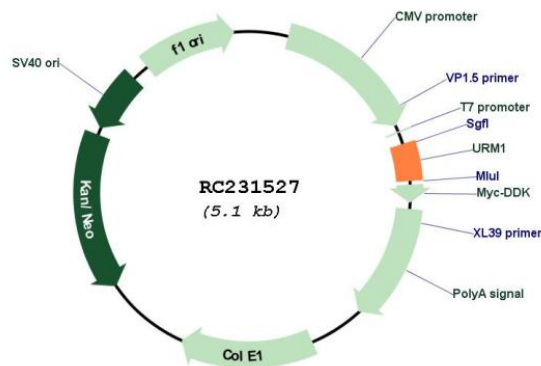


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001265582  
 ORF Size: 189 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_001265582.1</a> , <a href="#">NP_001252511.1</a>
<b>RefSeq Size:</b>	4369 bp
<b>RefSeq ORF:</b>	192 bp
<b>Locus ID:</b>	81605
<b>UniProt ID:</b>	<a href="#">Q9BTM9</a>
<b>Cytogenetics:</b>	9q34.11
<b>MW:</b>	7.6 kDa
<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]