

## Product datasheet for **RG227597**

### URM1 (NM\_001135947) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** URM1 (NM\_001135947) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** URM1  
**Synonyms:** C9orf74  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG227597 representing NM\_001135947  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCGCCCTTGTCTAGTGGAGGTGGAGTTCGGAGGTGGTGGGAGCTCCTGTTTGACGGTATTAAGA  
AACATCGAGTCACTTTGCCTGGACAGGAGGAACCTGGGACATCCGGAACCTGCTCATCTGGATCAAGAA  
GAATTTGCTAAAAGAGCGGCCAGAGTTGTTTCATCCAGGGAGACAGCGTGGGCCAGGAATCTGGTGCTG  
ATTAACGATGCCGACTGGGAGCTACTGGTCACTACCTGGGGGACATCCCTCCCCAGCCCTGCCCTTG  
CTGCTTCAGTGGGAAAGCGTTGGCCTCTCCTCAGGCACATATAGAGTGGCTGGGTAATCTCCGCCCA  
CTCCAGCCCCACACTGAGGCTGCTGGAGTCTCCACTCCAGGTGAGGAAGGGATGGGTAGCTGGGGACAT  
GGGAGTACTCCTCCATCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG227597 representing NM\_001135947  
Red=Cloning site Green=Tags(s)

MAAPLSVEVEFGGAEALLFDGIKKHRVTLPGQEEPWDIRNLLIWIKNLLKERPELFIQGDSVRPGILVL  
INDADWELLVSTLGDIPPPAPALAASVGRWASPAHIEWLGNPPHSSPTLRLLLESPTGEEGMGSWG  
GSTPPS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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<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>NM_001135947.2, NP_001129419.1</u>
<b>RefSeq Size:</b>	3006 bp
<b>RefSeq ORF:</b>	441 bp
<b>Locus ID:</b>	81605
<b>UniProt ID:</b>	<u>Q9BTM9</u>
<b>Cytogenetics:</b>	9q34.11
<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]