

Product datasheet for **RC227597**

URM1 (NM_001135947) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: URM1 (NM_001135947) 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: >RC227597 representing NM_001135947
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

**ATGGCTGCGCCCTTGTCAGTGGAGGTGGAGTTCGGAGGTGGTGGGAGCTCCTGTTTGACGGTATTAAGA
AACATCGAGTCACTTTGCCTGGACAGGAGGAACCTGGGACATCCGGAACCTGCTCATCTGGATCAAGAA
GAATTTGCTAAAAGAGCGGCCAGAGTTGTTTCATCCAGGGAGACAGCGTGGCCAGGAATTCTGGTCTG
ATTAACGATGCCGACTGGGAGCTACTGGTCACTTGGGGGACATCCCTCCCCAGCCCTGCCCTTG
CTGCTTCACTGGGAAAGCGTTGGCCTCTCCTCAGGCACATATAGAGTGGCTGGGTAATCCTCCGCCCA
CTCCAGCCCCACACTGAGGCTGCTGGAGTCTCCCACTCCAGGTGAGGAAGGGATGGGTAGCTGGGGACAT
GGGAGTACTCCTCCATCC**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >RC227597 representing NM_001135947
Red=Cloning site Green=Tags(s)
MAAPLSVEVEFGGAELLFDGIKKRVTLPGQEEPWDIRNLLIWIKNLLKERPELFIQGDSVRPGILVL
INDADWELLVSTLGDIPPPAPALAASVGKRWASPAHIEWLGNPPPHSSPTLRLLLESPTPGEEGMGSWGH
GSTPPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

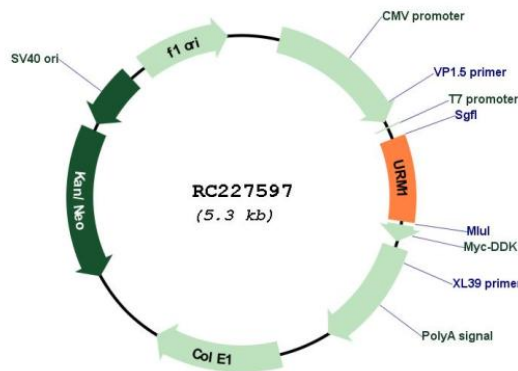


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001135947

ORF Size: 438 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	<u>NM_001135947.2, NP_001129419.1</u>
RefSeq Size:	3006 bp
RefSeq ORF:	441 bp
Locus ID:	81605
UniProt ID:	<u>Q9BTM9</u>
Cytogenetics:	9q34.11
MW:	15.8 kDa
Gene Summary:	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]