

Product datasheet for SC122994

URM1 (NM_030914) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	URM1 (NM_030914) Human Untagged Clone
Tag:	Tag Free
Symbol:	URM1
Synonyms:	C9orf74
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_030914 edited
 GCGAGCTCGGCTTCTCAACATGGCTGCGCCCTTGTCAAGTGGAGGTGGAGTTCGGAGGTG
 GTGCGGAGCTCCTGTTTGACGGTATTAAGAAACATCGAGTCACTTTCCTGGACAGGAGG
 AACCCCTGGGACATCCGGAACCTGCTCATCTGGATCAAGAAGAATTTGCTAAAAGAGCGGC
 CAGAGTTGTTCCATCCAGGAGACAGCGTGCAGGCAAGGAATTCTGGTGTGATTAACGATG
 CCGACTGGGAGCTACTGGGTGAGCTGGACTACCAGCTTCCAGGACCAGGACAGCGTCTCT
 TCATCTCCACTCTGCACGGCGGCTGAGGGCCCTTCTCTGGGCTGGGCACCCCTTAGAGG
 GAGAACGAAGCAATCAGACATCCCCTTGGGCCCTGCTTCCAGGTCTCCCTGTCCCCTTG
 CCTGCCTTCTCCCTGCTCTGTCCCTAAGCTCCCTCCAGGCAGGAAAAGAGGCCAGGT
 GCTAAAAATGAGCCTTTCTCAAGCACGTGAGCAGCGGAAGGCAGACAGGCCAGAGCCC
 AGCACTCCCTTTCCAGCAGCTGTGGTGGGGGAGGGTTCCCTCCAGTTTGTCAAGAGTT
 GAAGGAGGCTCTGTGGCCAGGTGACCTGGCTGCCTTCCACCCCTTGTACCTCAGTCTAAA
 CATGGAGTGGCCGCTGACAAGGCCTCCAGCCCCAGAGCCAGCGTCTTATGGGGAAGAT
 GAATGGACCTGAGTAGCTGAAGGAAGGCCCTCCCTACCCAAAGACTGGAGGCTTCTCAG
 CCTCAATTTCCCTGTCTGTACAGCTGAGGGCTCTGCCTGTCCCCACTGCATCAGTATG
 GAACCCAGCTGGGGTCCCCTATTGAGTGCCGACTCCCCCACCAGCCAGCAGCTGCTCCT
 CCAGCCACACCCCTCTGCTCCCCCACCCTAGCCCTTGACCTGGCTGGCCTGCCCG
 CTCCACAGGCCACCAGATGGGCTCCTGAGACCCTCCCCAGGCTGTTACAGCTCATTCTG
 CTGGGGTAGAGATGAGGGGAGGGAGTAAGTTAAACCTTGACTAGCAAGTAGAAGCCTG
 GGGGATGCGTGTGCCTCAGTTTCTCCTCCACAAGTGAATATTTATAGTGGCTGAAAAC
 TGGGGAGATACTTGATGGCGCAATGTCCGTTTTCTCTCCCTTCCCACCTCCTGCAGGAA
 GCAGGACGGGGCAGGCAGCACCTGGTAGGCACAGTGCTTTGCCCTCCTCCCTTCCCTT
 CTGGAAGTCTTGGGGCTCAGTGCTTGAACAGCCGGCTTGGGCAAATAAAAGACTAGG
 TTGTTTACTAAAAAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_030914 unedited NNAAGGTCAAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGCGAG CTCGGCTTCTCAACATGGCTGCGCCCTTGTCAGTGGAGGTGGAGTTCGGAGGTGGTGCG GAGCTCCTGTTTGACGGTATTAAGAAACATCGAGTCACTTTGCCTGGACAGGAGGAACCC TGGGACATCCGGAACCTGCTCATCTGGATCAAGAAGAATTTGCTAAAAGAGCGGCCAGAG TTGTTTCATCCAGGGAGACAGCGTGGCCAGGAATTCTGGTGTGATTAACGATGCCGAC TGGGAGCTACTGGGTGAGCTGGACTACCAGCTTCAGGACCAGGACAGCGTCTCTTCATC TCCACTCTGCACGCGGCTGAGGGCCCTTCTCTGGCCTGGGCACCCTTAGAGGGGAGAA CGAAGCAATCAGACATCCCCTTGGGCCCTGCTTCCAGGTCTCCCTGTCCCCTTGCTGCTG CTTCTTCCCTGCTGTGCCCTAAGCTCCCTCCAGGCAGGAAAAAGAGGCCAGGTGCTAA AAATGAGCCTTTCTCAAGCACGTGAGCAGCGGAAGGCAGACAGGCCAGAGCCCAGCAC TCCCTTTTCCAGCAGCTGGGTGGGGGANGGGTTCCNCTCCAGTTTGTCAAGAGTTGAA GGAGGCTCTGTGGCCAGGTGACCTGGCTGCCTTCCACCCCTGTACCTCAGTCTAAACAT GGAGTGGCCGCTGACAAGGCGCTCCAGCCCAGAGCCAGCGTCTTCATGGGGAAGATGAA TGGACCTGAGTAGCTGAAGGAAGGCCCTCCCTACCCAAGACTGGAGGCTTCTCAGCCTC AATTTCCCTGTCTGTACAGCTNGAGGCTCTGCCTGTCCCCACTGCTATCAGTATGGA
Restriction Sites:	Please inquire
ACCN:	NM_030914
Insert Size:	1348 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_030914.1</u> , <u>NP_112176.1</u>
RefSeq Size:	1348 bp
RefSeq ORF:	306 bp
Locus ID:	81605
UniProt ID:	<u>Q9BTM9</u>
Cytogenetics:	9q34.11

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]

Transcript Variant: This variant (1) lacks a segment in the 3' coding region, compared to variant 2, which results in a protein (isoform 1) with a distinct C-terminus, compared to isoform 2. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.