

Product datasheet for MC204124

Urm1 (NM_026615) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Urm1 (NM_026615) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Urm1
Synonyms:	2900073H19Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC026994
 AAACATGGCGCGCCCTTATGTGTGAAGGTGGAGTTCGGAGTGGTGCAGAGCTCCTGTTTGATGGGGTA
 AAAAAGCATCAAGTCGCCTTGCCTGGGCAGGAGGAACCTGGGATATACGGAACCTCCTGTCTGGATCA
 AGAAGAATTTGCTAAAAGAGCGACCAGAGCTGTTTCATCCAGGGAGACAGTGTGCGGCCAGGAATCCTGGT
 GCTGATTAATGATGCCGACTGGGAACTGCTGGGGAGCTGGACTACCAGTGCAGGACCAAGACAGCATC
 CTCTTCATCTCCACACTGCACGGCGGCTGAGGCCTCCCCAGTGGGCCAAGCACCTTTGCAGGGGAACAC
 AGGACAACCACAGCACTCCTCGATCTGCTTCCAGGTCCTCAGTCCCCCTTGGCTGCCTCCTTCCCTGCTG
 TACCCCTGAGCTTCTCTAGGCAGGAAAAGAGGCCAGGTGCTAAAAATGAGCCTTTCTGGGCAAGGCAC
 GTGAGCAGGGAGCGAAGAGAGAGAGCAGCCGCCTGAGTCCAGCACTCCTCCAGCAGCTGAGGTGGGG
 GAGGGTGTTCCTGTGCTGTGTCAGGAGTAGAGGGGGCTCTGTGCCAGGTGACCCAGCTGCTTGCCACTC
 ATGTGTCTTGGTGTATCTAAGCACTGAGTGGTTGCCTGGAAGGCACTCCAGTTCTGAGACATCTTCATG
 GGAAGATAGATGGGCTGGAGTAACTGATGAGAACTCCTCCCTTGCCAAAGATTAGAAGGCCTCCGCC
 TCAGTTTTCCCATCTGGACACAGAGAGCTCTGCTTGTCCCCCACTGATGTATTATGGAACCCCACTGG
 GGTCCCCTATTAGTGTCTCCCCTCCCTCCTCCACCCAGCAGCTGTCTCCCCCACTCCCCTTCTCCATC
 CTTTGACCCTGGCTGGCCTCCCCCACATAGGCCACCAGATGGGCTCCTGAGATACTCTCCAGGCTGCC
 TACAACCTATTCTGTTGCGGGTAGAGAATGGAAGGGAGCAGCCTAACCGTAGGCAGAGGGGGCGGGGCT
 CAGCATGTGTAACCTCAGGCTTCTGAAACAAGTGGGATTTGGGTGTGCAGCACCTAGTGGGCAGAAGGC
 TGTGTGTGTCCTTTCTCTATCTTCTGGAGACTTCATGCCTGCAGCAGCTGGCTCGGGCAAATAAAAA
 GACTAAGTGACAAAAA

Restriction Sites:	RsrII-NotI
ACCN:	NM_026615
Insert Size:	306 bp



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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:	BC026994 , AAH26994
RefSeq Size:	1216 bp
RefSeq ORF:	306 bp
Locus ID:	68205
UniProt ID:	Q9D2P4
Cytogenetics:	2 B
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]