

Product datasheet for **MC207664**

Mul1 (NM_026689) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mul1 (NM_026689) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mul1
Synonyms:	0610009K11Rik; AV000801; Gide
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC207664 representing NM_026689 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGAGCGGTTGCGACCGTCGCTCGGCCAGGTCATCCTGCTGGGCACCAGTTCGATGGTCACCGCCG
TACTGTACTCCATATACCGGCAGAAGGCCAGGTCGCGCAGGAACAAGGGAGCTAAGAAGATTTCATCT
GGGTGAAGATTTAAAGGGCATTCTTTCAGAAGCACCGGGGAAGTGTGTGCCTTATGCTGTCATCGAAGGA
GCTGTGCGGTCTGTTAAAGAAACTCAACAGCCAGTTCGTGGAAAACGCAAGGGGGTATCCAGCGGC
TGTGCTTCAGGAGCATAAGATGGTGTGGAACCGAACTACCCACCTTTGGAATGACTATTCCAAGATCAT
TCACCAGAGGACTAACACTGTGCCCTTTGACCTCGTGCCCAACGAGGACGGCGTGGCTGTGTCCGTGCGA
GTGCTGAAGCCCCTGGATTCACTGGATCTGGCCCTAGAGACCGTGTACGAGAAGTTCACCCCTCTGTGC
AGTCTTCACCGATGCCATCGGCCACTACATCAGTGGCGAGAGGCCAAAGGCATCCAGGAGACAGAGGA
GATGCTGAAGGTGGGAGCCACCCTCACGGGGATCGGTGAACCTGGTCTGGACAACAACGCTGTCCGCCTG
CAGCCCCCAAGCAGGGCATGCAGTACTACCTGAGCAGCCAGGACTTTGACAGCCTGTGCACAGGCAGG
AGTCTAGTGTCCGGCTCTGGAAGATTCTGGTCTGGTGTTCGGCTTTGCTACCTGTGCCACCCTCTCTT
CATCCTGAGGAAGCAGTACCTTCATCGGCAGGAGCGCCTGCGCCAGCAGCAGCTCCAGGAAGAGTTCCCT
GAACACGAGGCCAGCTGCTGAGTCAAGCCTCGCCTGAGGACAGGGAGAGTCTGAAGAGCCCTGTGTTG
TGTGTCTGAGCAACTTCAAGTCTGTGTCTTCTCGAGTGCGGGCATGTGTGTTCTGCCCCAGTGTTA
CCTTGCTTCCAGAGCCCAAGAGGTGCCCGATCTGTGCGGGGAGATCACCGGGTGATACCCTTGAT
AACAGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_026689



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Insert Size:	1059 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:	NM_026689.3 , NP_080965.2
RefSeq Size:	3732 bp
RefSeq ORF:	1059 bp
Locus ID:	68350
UniProt ID:	Q8VCM5
Cytogenetics:	4 D3
Gene Summary:	Exhibits weak E3 ubiquitin-protein ligase activity (By similarity). E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfer the ubiquitin to targeted substrates (By similarity). Can ubiquitinate AKT1 preferentially at 'Lys-284' involving 'Lys-48'-linked polyubiquitination and seems to be involved in regulation of Akt signaling by targeting phosphorylated Akt to proteosomal degradation (By similarity). Proposed to preferentially act as a SUMO E3 ligase at physiological concentrations (By similarity). Plays a role in the control of mitochondrial morphology by promoting mitochondrial fragmentation, and influences mitochondrial localization (By similarity). Likely to promote mitochondrial fission through negatively regulating the mitochondrial fusion proteins MFN1 and MFN2, acting in a pathway that is parallel to the PRKN/PINK1 regulatory pathway (PubMed:24898855). May also be involved in the sumoylation of the membrane fission protein DNM1L (By similarity). Inhibits cell growth (By similarity). When overexpressed, activates JNK through MAP3K7/TAK1 and induces caspase-dependent apoptosis (By similarity). Involved in the modulation of innate immune defense against viruses by inhibiting DDX58-dependent antiviral response (By similarity). Can mediate DDX58 sumoylation and disrupt its polyubiquitination (By similarity).[UniProtKB/Swiss-Prot Function]