

## Product datasheet for **MC201979**

### **Gulo (NM\_178747) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gulo (NM_178747) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gulo
Synonyms:	5730581M22; AU018375; BC028822; GLO; LGO; sfx; unh; unhip
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC028828 sequence for NM\_178747  
 GCCTGAGGTAACCCAGAGCCGAGGTTGCCCTGACCACTGCATCTGCTGCTGCCAGGGCTTTGTTCAACTT  
 CCTGTGGGAACGCTTCAAGTCAAGTCGTCTGACCCTGTTGATCGCTGGAATCATGGTCCATGGGTACAAA  
 GGGGTCCAGTTCCAAAAGTGGGCGAAGACCTATGGCTGCAGTCCAGAGATGTACTACCAGCCACATCAG  
 TGGGGGAGGTGAGAGAGGTGCTGGCCCTGGCCCGCAGCAGAACAAGAAAGTGAAGGTGGTGGGTGGCGG  
 CCACTCGCTTCCAGACATCGCTGCACCGATGGCTTATGATTACATGGGCAAGATGAACCGGTTCTC  
 CAGGTGGACAAGGAGAAGAGCAGGTACAGTGGAAAGCCGGTATCCTCCTGACTGACCTGCACCCACAGC  
 TGGACAAGCATGGCCTGGCCCTGTCTAATCTGGGAGCCGTGTCTGATGTGACGGTTGGTGGCGTCAATTGG  
 GTCTGGAACACATAACACCGGGATCAAGCACGGTATCCTGGCCACCCAGGTGGTGGCCCTGACCCTGATG  
 AAGGCTGATGGAACAGTTCTGGAATGTTCTGAGTCAAGTAATGCAGATGTGTTCCAGGCTGCAAGGGTGC  
 ACCTGGGTGCCTGGGTGTTATCCTCACTGTCACCCTGCAGTGTGTGCCACAGTCCACCTTCTGGAGAC  
 ATCCTTTCCTTCGACCCTCAAGGAGTCTTGGACACCTGGACAGCCACCTGAAGAAGTCTGAGTACTTC  
 CGTTCCTCTGGTTTCTCACAGTGAGAACGTGAGCATCATCTACCAAGATCACACCAACAAGGAGCCCT  
 CCTCTGCATCTAACTGGTTTTGGGACTATGCCATTGGGTCTACCTCCTGGAATCTTGGCTGAGCCAG  
 CACCTACCTGCCACGCCCTCGTGGGCTGGATCAACCGCTTCTTCTTGGCTGCTGTTCAACTGCAAGAAG  
 GAGAGCAGCAACCTCAGCCACAAGATCTTCTCCTACGAGTGTGCGTTCAAGCAGCATGTCCAAGACTGGG  
 CCATCCCCAGGGAGAAGCAAGGAGGCCCTGCTGGAGCTAAAGGCCATGCTGGAGGCCACCCCAAGGT  
 GGTAGCCCACTACCCCGTGGAGGTGCGCTTACCCGAGGTGATGACATCCTGCTGAGCCCGTGTCCAG  
 AGGGACAGCTGCTACATGAACATCATTATGTACAGGCCCTATGGGAAGGATGTGCCTCGTTGGATTACT  
 GGCTGGCTATGAGACCATCATGAAGAAGTTGGAGGCAGGCCCACTGGGCAAAGGCCACAATTGCAC  
 CAGGAAGGACTTTGAGAAAATGTACCCCGCCTTTCACAAGTCTGTGACATCCGCGAGAAGCTGGACCCC  
 ACTGGAATGTTCTTGAATTCGTACCTGGAAAAGTTTTCTACTAAAGTAGAAGCAGAAGCAAGCTGCCCT  
 GACCCCTCACTTCTGCTGCCCTTGGGGGGGGGGCAGGGCAGTGTCTCACAGGCACAGTGGGAGACGACC  
 TCTCCTGAACACAAGGAGGGGCTGGGCTCTGGCCGAGGCCCTGCTCCTTTATCATCTTATAACACCC  
 CAGGCAAGAAGTGGCCTCTCACTCAAATTCCTGTTTGCATCTCCACGAGCCATACATAAACTACAATCAT  
 CTCAGGAAAAGGGTTCCCTTGCATCATATCTGTCCAGGCTAAGGATTTGGTCTTCTAGGTTCTACTG  
 GTCCACCAAGTATAGAGAGATCCCTGGGGCCTGCAGTTTTCCCTCCCTTTCAGAAGGGATCTCTTGGCA  
 ACAGAGGTAGCATGAGGCATGCTCTGCTACTTTTATCCTTAAAGGCCTTTCAGATGCCAGAGTCTGTC  
 TGTGGTCTGAGCAAGCCATCTCCAGATGGGTCCACGTGGCCTTCTGACTGCCATGGCCTGGCCCTCA  
 CAGTGTCTCTTTCGGGTGGTGTAGAGTGAATTTGCCTCGTCTTCTTAACCAGTCTCTGTTAGATCCC  
 TGTGTTTTCTCCCTTACCTCAGAGACAATCTTTGGGCTGGGATCTCGCCGTGTCCCTGGGTTTTCCCTG  
 GGTCTTGGTTTCTCTTCTTCTTACAGAGATGATTTTCAAGTTTATTTGTGGCCTTCTGGAATGTTCTT  
 GGAGAGCCAATATGTTCCAGTACTTTGTGAGAATTAAGACTCTGAAAGATAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_178747

**Insert Size:** 1323 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:**

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:** [BC028828](#), [AAH28828](#)

**RefSeq Size:** 2240 bp

**RefSeq ORF:** 1323 bp

**Locus ID:** 268756

**UniProt ID:** [P58710](#)

**Cytogenetics:** 14 D1

**Gene Summary:** Oxidizes L-gulono-1,4-lactone to hydrogen peroxide and L-xylo-hexulonolactone which spontaneously isomerizes to L-ascorbate.[UniProtKB/Swiss-Prot Function]