

Product datasheet for **MR207019**

Gulo (NM_178747) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gulo (NM_178747) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gulo
Synonyms:	5730581M22; AU018375; BC028822; GLO; LGO; sfx; unh; unhip
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR207019 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGTCCATGGGTACAAAGGGTCCAGTTCAAAACCTGGGCGAAGACCTATGGCTGCAGTCCAGAGATGT
 ACTACCAGCCACATCAGTGGGGGAGGTGAGAGAGGTGCTGGCCCTGGCCCGGCAGACAACAAGAAAGT
 GAAGGTGGTGGGTGGCGGCCACTCGCCTTCAGACATCGCCTGCACCGATGGCTTCATGATTCACATGGGC
 AAGATGAACCGGTTCTCCAGGTGGACAAGGAGAAGAAGCAGGTACAGTGAAGCCGGTATCCTCCTGA
 CTGACCTGCACCCACAGCTGGACAAGCATGGCCTGGCCCTGTCTAATCTGGGAGCCGTGTCTGATGTGAC
 GGTTGGTGGCGTCATTGGGTCTGGAACACATAACACCGGGATCAAGCACGGTATCCTGGCCACCCAGGTG
 GTGGCCCTGACCCTGATGAAGGCTGATGGAACAGTTCTGGAATGTTCTGAGTCAAGTAATGCAGATGTGT
 TCCAGGCTGCAAGGTGCACCTGGGCTGCCTGGGTGTTATCCTCACTGTCAACCCTGCAGTGTGTGCCACA
 GTTCCACCTTCTGGAGACATCCTTCTCGACCTCAAGGAGGTCTTGACAACCTGGACAGCCACCTG
 AAGAAGTCTGAGTACTTCGCTTCTCTGGTTTCTCACAGTGAGAACGTGAGCATCATCTACCAAGATC
 ACACCAACAAGGAGCCCTCCTCTGCATCTAACTGGTTTTGGGACTATGCCATTGGTTCTACCTCTGGA
 ATTCTTGCTCTGGACCAGCACCTACCTGCCACGCCTCGTGGGCTGGATCAACCGCTTCTTCTTGCTG
 CTGTTCAACTGCAAGAAGGAGAGCAGCAACCTCAGCCACAAGATCTTCTCCTACGAGTGTGCTTCAAGC
 AGCATGTCCAAGACTGGGCCATCCCCAGGGAGAAGACCAAGGAGGCCCTGCTGGAGCTAAAGGCCATGCT
 GGAGGCCACCCCAAGGTGGTAGCCACTACCCCGTGGAGGTGCGCTTCACCGAGGTGATGACATCCTG
 CTGAGCCCGTGTCTCCAGAGGGACAGCTGCTACATGAACATCATTATGTACAGGCCCTATGGGAAGGATG
 TGCCTCGGTTGGATTACTGGCTGGCCTATGAGACCATCATGAAGAAGTTTGGAGGCAGGCCCACTGGGC
 AAAGGCCCACAATTGCACCAAGGAAGGACTTTGAGAAAATGTACCCCGCCTTTACAAGTTCTGTGACATC
 CGCGAGAAGCTGGACCCCACTGGAATGTTCTTGAACTCGTACCTGGAAAAGGTTTTCTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207019 protein sequence
 Red=Cloning site Green=Tags(s)

MVHGYKGVQFQNWAKTYGCSPEMYQPTSVGEVREVLALARQQNKVKVVGGGHSPSDIACDGFMIHMG
 KMNRLVQVDEKKQVTVEAGILLTDLHPQLDKHGLALSNLGAVSDVTGGVIGSGTHNTGIKHGILATQV
 VALTLMKADGTVLECSSESNADVQAARVHLGCLGVILTVTLQCVQFHLLTSFSTLKEVLNDLDSHL
 KKSEYFRFLWFPHSENVSIYQDHTNKEPSSASNWFWDYAIGFYLLFLLWTSTYLPRLVGWINRFFFWL
 LFNCKKESNLCHKISYECRFKQHVQDWAIPREKTKEALLELKAMLEAHPKVVAHYPPVEVRFTRGDDIL
 LSPCFQRDSCYMNIIIMYPYQKDVPRLDYWLAYETIMKKFGGRPHWAKAHNCTRKDFEKMYPAFHKFCDI
 REKLDPTGMFLNSYLEKVFY

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_178747

ORF Size: 1320 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM 178747.3, NP 848862.1

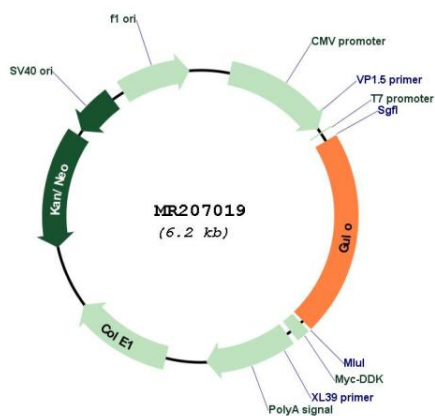
RefSeq Size: 2265 bp

RefSeq ORF: 1323 bp

Locus ID: 268756

UniProt ID: P58710
Cytogenetics: 14 D1
MW: 50.5 kDa
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]

Product images:



Circular map for MR207019