

Product datasheet for **MG220459**

Erp27 (NM_026983) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Erp27 (NM_026983) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Erp27
Synonyms:	1810033M07Rik; 1810047B09Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220459 representing NM_026983 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAATCACCAGGTCTAGATGCCTAATCCTCTCGTTTGTCTCGTGTGGGCTGGTTCCAGAGGTTA
CAGCAGATGTGGAAGAAGCCACGGATGGTCTCAGCACTACCCAGGAACCCATATGGCTCACAGACGTCCC
AGCCACCGTGGAACCTATCGCTGCTGCTGAAGTGGCAGTCATAGGCTTCTCCAGGATTTAGAAATACCG
ATCGTGTCTGTGTTCCGGAGCATGGCAGCAGGTTCCAAGATGTATCGTTTGAATCAGCAACCATTCTG
AGGTCCTGACCCATTACAATGTCACCAGCAACAGCATCTGCCTCTTTCGACTGGTTGATGATCAACAAC
ACATTTGAATGCTGAAGACATTGAAATCTCGATGCTGCCAAATTGAGCGGTTTTATTACAGTGAACAAC
CTCCACTGGGTGACAGAGTACAGTCCTATGATTGCAGCTGGCTTATTTAACACCATGGTTTCAGACCCATC
TTCTCCTGATGATGAAGAAGACTTCCCCAGAGTATGAAGAGAGCATGCGCAGATATCGGGAGGCAGCTAA
GCTCTTCCAGGGACAGATTCTCTTTGTTCTGGTGGACAGCGGCAAAAGGGAAAAATGGAAAGGTGATGTCC
TATTTCAAATAAAAGAGTCTCAGCTGCCAGCTCTGGCCATTTATGAGTCTGTGGATGACAAGTGGGACA
CACTGCCCATCGCAGAGGTTACGGTGGAGAAGGTCGAGGCTTCTGCGAGGGATTCTTAAAGGGGCTGCT
CGAGAGAGATCACGAAGCTGAAGGAGACTCCGGGAAGGAGGAGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220459 representing NM_026983
 Red=Cloning site Green=Tags(s)

MKITRSRCLILSFVLVCGLVPEVTADVEEATDGLSTTQPEIWLTDVPATVELIAAAEVAVIGFFQDLEIP
 IVSVFRSMARQFDVSGFISNHSEVLTHYNVTSNSICLFRLLVDDQQLHLNAEDIENLDAAKLSRF IHVNN
 LHWVTEYSPMIAAGLFNTMVQTHLLMMKKTSPYEESMRRYREAAKLFQGQILFVLVDSGKRENGKVM
 YFKLKESQLPALAIYESVDDKWDTLPIAEVTVEKVRGFCGFLKGLLQRDHEAEGDSGKEEL

TRTRPLE - GFP Tag - V

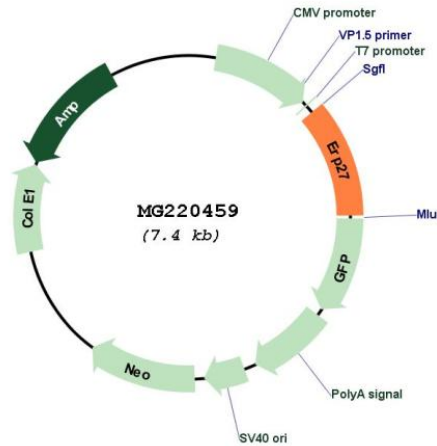
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_026983

ORF Size: 816 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:	<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_026983.2 , NP_081259.1
RefSeq Size:	953 bp
RefSeq ORF:	819 bp
Locus ID:	69187
UniProt ID:	Q9D8U3
Cytogenetics:	6 G1
Gene Summary:	Specifically binds unfolded proteins and may recruit protein disulfide isomerase PDIA3 to unfolded substrates. Binds protein substrates via a hydrophobic pocket in the C-terminal domain. May play a role in the unfolded stress response.[UniProtKB/Swiss-Prot Function]