

Product datasheet for **MG222306**

Derl3 (NM_024440) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Derl3 (NM_024440) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Derl3
Synonyms: 1810006I20Rik; 1810063P04Rik; derlin-3; IZP6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG222306 representing NM_024440
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGGCAGAGGCTGGCGGGGCTTCTGCAGGTGCCCGGGTGACACGCGCTACACCGCGGCT
GCGTCCTCACCACGGCCGAGTGCAGCTGGAGCTCCTCAGCCCTTCCAGCTCTACTTCAACCCGACCT
GGTGTCCGGAAGTTCAGGTCTGGAGGCTCATCACCACCTTCTCTTCTCGGGCCCTGGGATTCGGC
TTCTTTTCAACATGCTTTCGTGTTCCGCTACTGCCGATGCTGGAGGAGGTTCTTCCGTGGCCGA
AGGCTGACTTCGTTTTTCATGTTTCTCTCGGTGGTGTCTTATGACTCTGCTGGGATTCCTGGGCAGCCT
GTTTTTCTGGACAGGCCCTCATGGCCATGCTGGTCTATGTATGGAGCCGTCGCAGCCCTCACGTGAGG
GTCAACTTCTTCGGCTTACTCAACTTCCAGGCACCATTCCTGCCCTGGGCCCTCATGGGCTTCTCGTGC
TGCTGGGCAACTCGGTTGTACAGACCTGTTAGGGATCCTTGTGGCCACATCTACTACTTCTAGAAAGA
CGTCTTTCCCAACCAGCCCGGAGGCAAGAGACTGCTGCTGACCCCGCGTGTGAAGCTGCTACTAGAT
GACCCTCAGGAAGACCCGATTACCTGCCCTTCCCGAAGAGCAGCCAGAGCTC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222306 representing NM_024440
 Red=Cloning site Green=Tags(s)

MAGQRLAAGFLQVPAVTRAYTAACVLTAAVQLELLSPFQLYFNPHLVFRKFQVWRLITTFLEFFGPLGFG
 FFFNMLFVFRYCRMLEEGSFRGRKADFVFMFLFGGVLMTLLGFLGSLFFLGQALMAMLVYWSRRSPHVR
 VNFFGLLNFAQPFLPWALMGFSLLLGNSVVTDLLGILVGHIIYFLEDVFPNQPGGKRLLLTPSVLKLLLD
 DPQEDPDYLLPLPEEQPEL

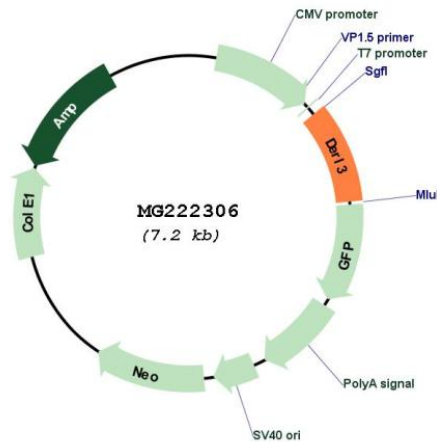
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_024440

ORF Size: 684 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_024440.2 , NP_077760.1
RefSeq Size:	1336 bp
RefSeq ORF:	687 bp
Locus ID:	70377
UniProt ID:	Q9D8K3
Cytogenetics:	10 C1
Gene Summary:	Functional component of endoplasmic reticulum-associated degradation (ERAD) for misfolded luminal glycoproteins, but not that of misfolded nonglycoproteins. May act by forming a channel that allows the retrotranslocation of misfolded glycoproteins into the cytosol where they are ubiquitinated and degraded by the proteasome. May mediate the interaction between VCP and the misfolded glycoproteins. May be involved in endoplasmic reticulum stress-induced pre-emptive quality control, a mechanism that selectively attenuates the translocation of newly synthesized proteins into the endoplasmic reticulum and reroutes them to the cytosol for proteasomal degradation.[UniProtKB/Swiss-Prot Function]