

## Product datasheet for **MR222306**

### Derl3 (NM\_024440) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Derl3 (NM\_024440) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Derl3  
**Synonyms:** 1810006I20Rik; 1810063P04Rik; derlin-3; IZP6  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR222306 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGGGCAGAGGCTGGCGGCGGGCTTCTGCAGGTGCCCGGGTGACACGCGCCTACACCGCGGCCT  
 GCGTCCTCACCACGGCCGAGTGCAGCTGGAGCTCCTCAGCCCTTCCAGCTCTACTTCAACCCGACCT  
 GGTGTTCCGGAAGTTCAGGTCTGGAGGCTCATCACCACCTTCTCTTCTCGGGCCCTGGGATTCGGC  
 TTCTTTTCAACATGCTTTCGTGTTCCGCTACTGCCGATGCTGGAGGAGGGTTCTTCCGTGGCCGA  
 AGGCTGACTTCGTTTTTCATGTTTCTCTCGGTGGTGTCTTATGACTCTGCTGGGATTCCTGGGCAGCCT  
 GTTTTTCTGGACAGGCCCTCATGGCCATGCTGGTCTATGTATGGAGCCGTCGCAGCCCTCACGTGAGG  
 GTCAACTTCTTCGGTTACTCAACTTCCAGGCACCATTCCTGCCCTGGGCCCTCATGGGCTTCTCGTGC  
 TGCTGGGCAACTCGGTTGTACAGACCTGTTAGGGATCCTTGTGGGCCACATCTACTACTTCTAGAAGA  
 CGTCTTTCCCAACCAGCCCGGAGGCAAGAGACTGCTGCTGACCCCGCGTGTGAAGCTGCTACTAGAT  
 GACCCTCAGGAAGACCCGATTACCTGCCCTTCCCAGAGCAGCCAGAGCTC

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR222306 protein sequence  
Red=Cloning site Green=Tags(s)

MAGQRLAAGFLQVPAVTRAYTAACVLTAAVQLELLSPFQLYFNPHLVFRKFQVWRLITTFLEFFGPLGFG  
 FFFNMLFVFRYCRMLEEGSFRGRKADFVFMFLFGGVLMTLLGFLGSLFFLGQALMAMLVYWSRRSPHVR  
 VNFFGLLNFAQPFLPWALMGFSLLLGNSVVTDLLGILVGHIIYFLEDVFPNQPGGKRLLLTPSVLKLLLD  
 DPQEDPDYLPPEEQPEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_024440

**ORF Size:** 687 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.

**RefSeq:** [NM\\_024440.2](#), [NP\\_077760.1](#)

**RefSeq Size:** 1336 bp

**RefSeq ORF:** 687 bp

**Locus ID:** 70377

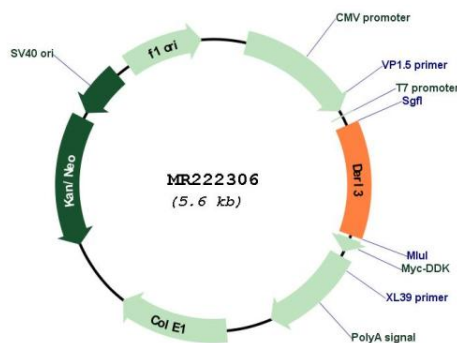
**UniProt ID:** [Q9D8K3](#)

**Cytogenetics:** 10 C1

**MW:** 26 kDa

**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]

### Product images:



Circular map for MR222306