

Product datasheet for **MR228240**

Derl2 (NM_001291147) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Derl2 (NM_001291147) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Derl2
Synonyms: CGI-101; Derlin-2; F-lana; Flana
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR228240 representing NM_001291147
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGATTTTCTATACGTTATTGTCTGAATGCTAGAAGAAGGCTCTTCCGAGGTCGGACAGCAGACTTTG
TATTTATGTTCTTTTGGTGGATTTTAACTGACTCTCTTTGGTTTGTGTGAGCTTAGTTTTTAGG
CCAGGCCTTTACAATAATGCTGGTCTACGTGTGGAGCCGAAGGAACCCGATGTCCGCATGAACCTCTT
GGTCTTCTAACTTCCAGGCCCTTCTGCCCTGGGTGCTCATGGGTTTTCCCTGTTGCTGGGAACT
CAATTATAGTGGACCTTTGGGTATTGCAGTTGGGCACATATATTTTTCTTGAAGATATATTTCCAA
TCAGCCTGGTGAATAAGAATTCTGAAAACACCATCTATTTTGAGGACTATTTTGATACGCCAGATGAG
GATCCCAATTACAACCCACTACCTGAAGAGCGGCCGGGAGGCTTCGCCTGGGTGAGGGCAGCGCCTTG
GTGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228240 representing NM_001291147
Red=Cloning site Green=Tags(s)

MIFLYRYCRMLEEGSFRGRTADVFVFMFLFGGFLMTLFLGLFVSLVFLGQAFTIMLVYVWSRRNPYVRMNF
 GLLNFQAPFLPWLMGFSLLGNSIIVDLLGIAGVHIYFFLEDIFPNQPGGIRILKTPSILRTIFDTPDE
 DPNYNPLPEERPGGFAWGEGQRLGG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI


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Cloning Scheme:



ACCN: NM_001291147

ORF Size: 495 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_001291147.1](#), [NP_001278076.1](#)

RefSeq Size: 3703 bp

RefSeq ORF: 498 bp

Locus ID: 116891

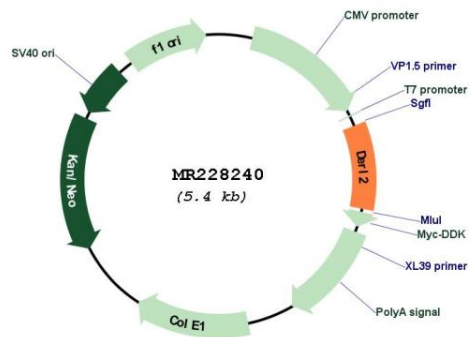
UniProt ID: [Q8BNI4](#)

Cytogenetics: 11 43.21 cM

MW: 19.4 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 misfolded glycoproteins. May also 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 MR228240