

Product datasheet for **MG202943**

Derl2 (NM_033562) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Derl2
Synonyms:	CGI-101; Derlin-2; F-lana; Flana
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG202943 representing NM_033562
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTACCAGAGCCTCCGGCTGGAGTACCTGCAGATCCC GCCGGTCAGCCGCGCCTATACTACCGCCT
GCGTCCTCACCACCGCGCCGTGCAGTTGGAATTGATCACACCTTTTCAGTTATACTCAATCCTGAATT
AATTTTTAAACATTTTCAAATCTGGAGGCTAATCACC AATTTCTTATTTTTGGTCCAGTTGGATTCAAT
TTTTTGTAAACATGATTTTTCTATACCGTTATTGTCGAATGCTAGAAGAAGGCTCTTCCGAGGTCGGA
CAGCAGACTTTGATTTATGTTCTTTTTGGTGGATTTTAATGACTCTCTTTGGTTTGTGTGAGCTT
AGTTTTTTTAGGCCAGGCCTTTACAATAATGCTGGTCTACGTGTGGAGCCGAAGGAACCCGTATGCCGC
ATGAACTTCTTTGGTCTTCTAAACTCCAGGCCCTTCTGCCCTGGGTGCTCATGGGTTTTCCCTGT
TGCTGGGAACTCAATTATAGTGGACCTTTGGGATTG CAGTTGGGCACATATTTTTTTCTTGAAGA
TATATTTCCAATCAGCCTGGTGAATAAGAATTCTGAAAACCATCTATTTTGAGGACTATTTTGAT
ACGCCAGATGAGGATCCCAATTACAACCCACTACCTGAAGAGCGGCCGGGAGGCTTCGCCTGGGGTGAGG
GCCAGCGCCTTGGTGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG202943 representing NM_033562
 Red=Cloning site Green=Tags(s)

MAYQSLRLEYLQIPPVSRAYTTACVLTTAAVQLELITPFQLYFNPELIFKHFQIWRLLITNLFVFGPVGFN
 FLFNMIFLYRYCRMLEEGSFRGRTADFVFMFLFGGFLMTLFGFLVSLVFLGQAFITIMLVYVWSRRNPYVR
 MNFFGLLNFAQPFLPWVLMGFSLLLNSIIVDLLGIAVGHIIYFFLEDIFPNQPGGIRILKTPSILRTIFD
 TPDEDPNPNPLPEERPGGFAWGEGQRLGG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033562

ORF Size: 717 bp

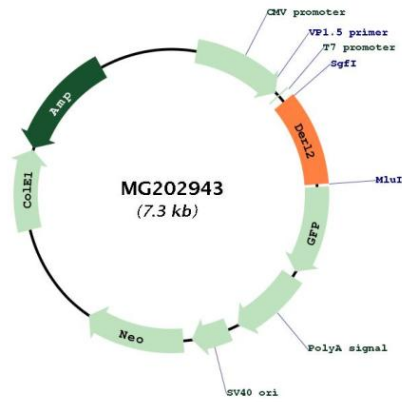
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_033562.4
RefSeq Size:	3623 bp
RefSeq ORF:	720 bp
Locus ID:	116891
UniProt ID:	Q8BNI4
Cytogenetics:	11 43.21 cM
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 MG202943