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Product datasheet for RC209310

DERL3 (NM_001002862) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DERL3 (NM_001002862) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DERL3
Synonyms:	C22orf14; derlin-3; IZP6; LLN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209310 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGTGGCAGGGACTAGCGGCCGAGTTCCTGCAGGTGCCGGCGGTGACGCGGGCTTACACCGCAGCCT GTGTCCTCACCACCGCCGCGGTGCAGCTGGAGCTCCTCAGCCCCTTTCAACTCTACTTCAACCCGCACCT TGTGTTCCGGAAGTTCCAGGTCTGGAGGCTCGTCACCAACTTCCTCTTCTTCGGGCCCCTGGGATTCAGC TTCTTCTTCAACATGCTCTTCGTGTTCCGCTACTGCCGCATGCTGGAAGAGGGCTCCTTCCGCGGCCGCA CGGCCGACTTCGTCTTCATGTTTCTCTTCGGGGGCGTCCTTATGACCCTGCTGGGACTCCTGGGCAGCCT GTTCTTCCTGGGCCAGGCCCTCATGGCCATGCTGGTGTACGTGTGGAGCCGCCGCAGCCCTCGGGTGAGG GTCAACTTCTTCGGCCTGCTCACTTTCCAGGCACCGTTCCTGCCTTGGGCGCTCATGGGCTTCTCGCTGC TGCTGGGCAACTCCATCCTCGTGGACCTGCTGGGGATTGCGGTGGGCCATATCTACTACTTCCTGGAGGA CGTCTTCCCCAACCAGCCTGGAGGCAAGAGGCTCCTGCAGACCCCTGGCTTCCTAAAGCTGCTCCTGGAT GCCCCTGCAGAAGACCCCAATTACCTGCCCCTCCCTGAGGAACAGCCAGGACCCCATCTGCCACCCCCGC AGCAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC209310 protein sequence
Red=Cloning site Green=Tags(s)

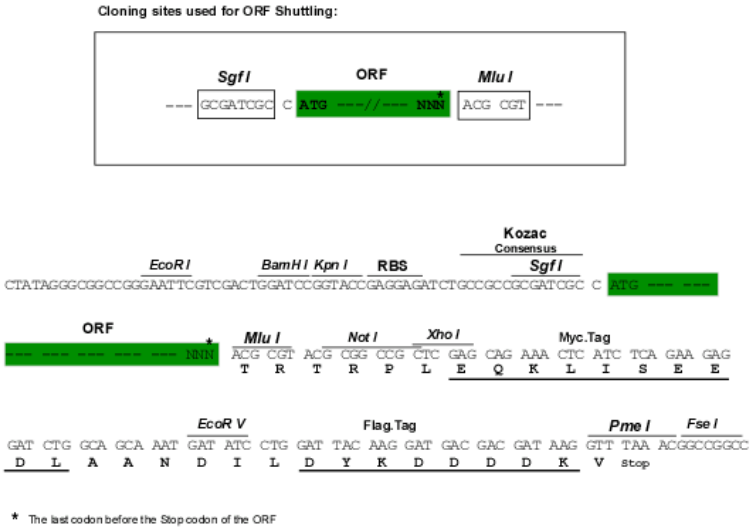
MAWQGLAAEFLQVPAVTRAYTAACVLTTAAVQLELLSPFQLYFNPHLVFRKFQVWRLVTNFLFFGPLGFS
FFFNMLFVFRYCRMLEEGSFRGRTADFVFMFLFGGVLMTLLGLLGSLFFLGQALMAMLVYVWSRRSPRVR
VNFFGLLTFQAPFLPWALMGFSLLLGNSILVDLLGIAVGHIYYFLEDVFPNQPGGKRLLQTPGFLKLLLD
APAEDPNYLPLPEEQPGPHLPPPQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6346_h01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001002862

ORF Size: 705 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).

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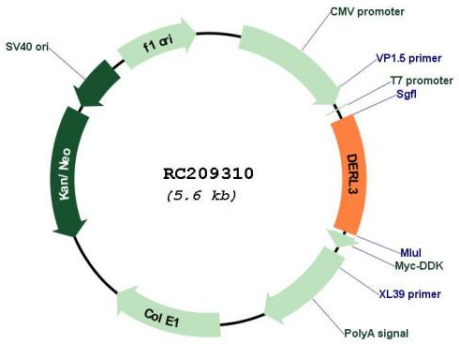
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_001002862.3
RefSeq Size:	3115 bp
RefSeq ORF:	708 bp
Locus ID:	91319
UniProt ID:	Q96Q80
Cytogenetics:	22q11.23
Protein Families:	Transmembrane
MW:	26.7 kDa
Gene Summary:	The protein encoded by this gene belongs to the derlin family, and resides in the endoplasmic reticulum (ER). Proteins that are unfolded or misfolded in the ER must be refolded or degraded to maintain the homeostasis of the ER. This protein appears to be involved in the degradation of misfolded glycoproteins in the ER. Several alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RC209310

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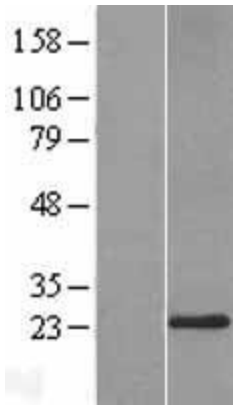

Western blot validation of overexpression lysate (Cat# [LY424131]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209310 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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