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Product datasheet for RC228000

DERL3 (NM_001135751) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DERL3 (NM_001135751) 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:

>RC228000 representing NM_001135751
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTGGCAGGGACTAGCGGCCGAGTTCCTGCAGGTGCCGGCGGTGACGCGGGCTTACACCGCAGCCT
GTGTCCTCACCACCGCCGCGGTGCAGCTGGAGCTCCTCAGCCCCTTTCAACTCTACTTCAACCCGCACCT
TGTGTTCCGGAAGTTCCAGGTCTGGAGGCTCGTCACCAACTTCCTCTTCTTCGGGCCCCTGGGATTCAGC
TTCTTCTTCAACATGCTCTTCGTGTTCCGCTACTGCCGCATGCTGGAAGAGGGCTCCTTCCGCGGCCGCA
CGGCCGACTTCGTCTTCATGTTTCTCTTCGGGGGCGTCCTTATGACCCTGCTGGGACTCCTGGGCAGCCT
GTTCTTCCTGGGCCAGGCCCTCATGGCCATGCTGGTGTACGTGTGGAGCCGCCGCAGCCCTCGGGTGAGG
GTCAACTTCTTCGGCCTGCTCACTTTCCAGGCACCGTTCCTGCCTTGGGCGCTCATGGGCTTCTCGCTGC
TGCTGGGCAACTCCATCCTCGTGGACCTGCTGGGGATTGCGGTGGGCCATATCTACTACTTCCTGGAGGA
CGTCTTCCCCAACCAGCCTGGAGGCAAGAGGCTCCTGCAGACCCCTGGCTTCCTGGGACTTCAGAGCAGC
AAGGCCCCAGCTGGCAGTAGCCTGACCATCTGGACACAGCAGAGCCAGGGCGGCCCAGGGACGGCAGGAG
AGCTCGCGGCACCTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

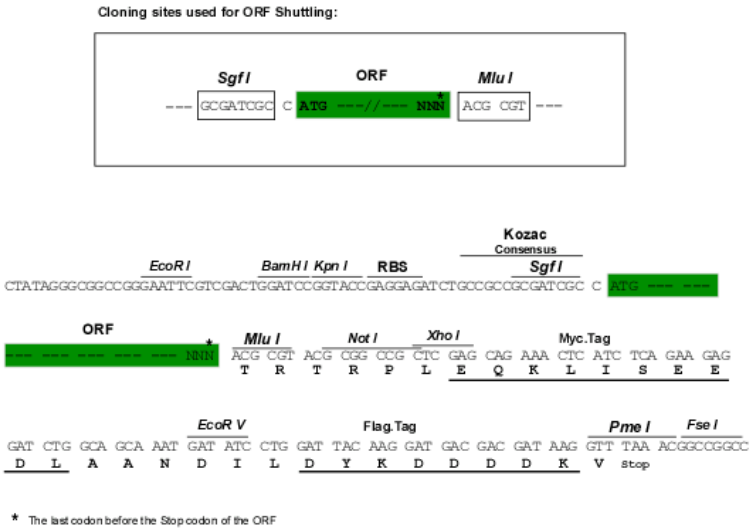
>RC228000 representing NM_001135751
Red=Cloning site Green=Tags(s)

MAWQGLAAEFLQVPAVTRAYTAACVLTTAAVQLELLSPFQLYFNPHLVFRKFQVWRLVTNFLFFGPLGFS
FFFNMLFVFRYCRMLEEGSFRGRTADFVFMFLFGGVLMTLLGLLGSLFFLGQALMAMLVYVWSRRSPRVR
VNFFGLLTFQAPFLPWALMGFSLLLGNSILVDLLGIAVGHIYYFLEDVFPNQPGGKRLLQTPGFLGLQSS
KAPAGSSLTIWTQQSQGGPGTAGELAAPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001135751

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: 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_001135751.2

RefSeq ORF: 720 bp

Locus ID: 91319

UniProt ID: Q96Q80

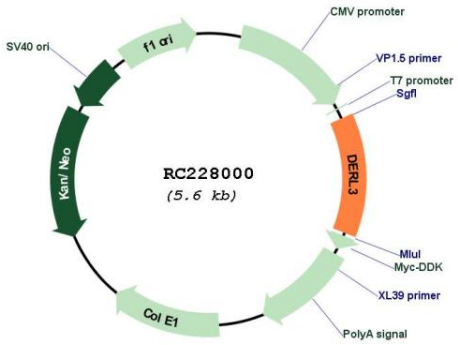
Cytogenetics: 22q11.23

Protein Families: Transmembrane

MW: 26.4 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 RC228000