

Product datasheet for **SC300468**

DERL3 (NM_001002862) Human Untagged Clone

Product data:

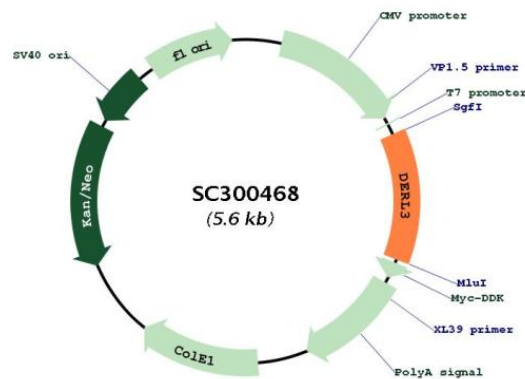
Product Type:	Expression Plasmids
Product Name:	DERL3 (NM_001002862) Human Untagged Clone
Tag:	Tag Free
Symbol:	DERL3
Synonyms:	C22orf14; derlin-3; IZP6; LLN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC300468 representing NM_001002862. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGTGGCAGGGACTAGCGGCCGAGTTCCTGCAGGTGCCGGCGGTGACGCGGGCTTACACCGCAGCC
TGTGTCTCACCACCGCCGCGGTGCAGCTGGAGCTCCTCAGCCCCCTTCAACTCTACTTCAACCCGCAC
CTTGTGTTCCGGAAGTTCAGGTCTGGAGGCTCGTCACCAACTCCTCTTCTTCGGGCCCTGGGATTC
AGCTTCTTCTCAACATGCTCTTCGTGTTCCGCTACTGCCGATGCTGGAAGAGGGCTCCTTCGGCGGC
CGCACGGCCGACTTCGTCTTCATGTTTCTTTCGGGGCGTCCTTATGACCCTGCTGGGACTCCTGGGC
AGCCTGTTCTTCTGGCCAGGCCCTCATGGCCATGCTGGTGTACGTGTGGAGCCCGCCAGCCCTCGG
GTGAGGGTCAACTTCTTCGGCCTGCTCACTTTCAGGCACCGTTCTGCCTTGGGCGCTCATGGGCTTC
TCGCTGCTGCTGGCAACTCCATCCTCGTGGACCTGCTGGGGATTGCGGTGGGCCATATCTACTACTTC
CTGGAGGACGTCTTCCCAACCAGCCTGGAGGCAAGAGGCTCCTGCAGACCCCTGGCTTCTAAAGCTG
CTCCTGGATGCCCTGCAGAAGACCCCAATTACCTGCCCTCCCTGAGGAACAGCCAGGACCCCATCTG
CCACCCCGCAGCAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-MluI



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Plasmid Map:


ACCN: NM_001002862

Insert Size: 708 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001002862.2](https://www.ncbi.nlm.nih.gov/RefSeq/ accession/taxonomy/NCBI/10981/mgi/1002862.2)

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]

Transcript Variant: This variant (2) is alternatively spliced at the 3' end compared to transcript variant 1, resulting in a slightly shorter isoform (2) with a distinct C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no quality transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.