

## Product datasheet for SC325637

### DERL1 (NM\_001134671) Human Untagged Clone

#### Product data:

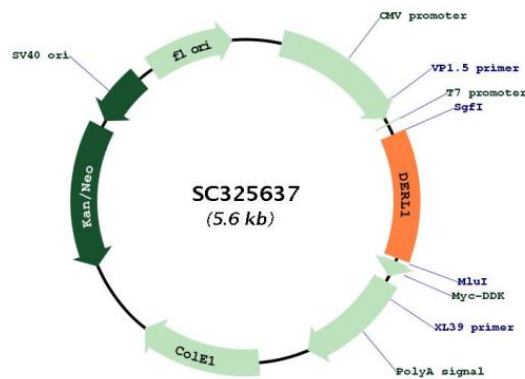
Product Type:	Expression Plasmids
Product Name:	DERL1 (NM_001134671) Human Untagged Clone
Tag:	Tag Free
Symbol:	DERL1
Synonyms:	DER-1; DER1; derlin-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325637 representing NM_001134671. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCGGACATCGGAGACTGGTTCAGGAGCATCCCGCGATCACGCGCTATTGGTTCGCCGCCACCGTC
GCCGTGCCCTTGGTCGGCAAACCTCGGCCTCATCAGCCCGCCTACCTCTTCTCTGGCCCGAAGCCTTC
CTTTATCGCTTTCAGATTTGGAGGCCAATCACTGCCACCTTTTATTTCCCTGTGGGTCCAGGAACGGGA
TTTCTTTATTTGGTCAATTTATATTTCTTATATCAGTATTCTACGCGACTTGAACAGGAGCTTTTGAT
GGGAGGCCAGCAGACTATTTATTCATGCTCCTCTTAACTGGATTGCATCGTGATTACTGGCTTAGCA
ATGGATATGCAGTTGCTGATGATTCCTCTGATCATGTCAGTACTTATGTCTGGGCCAGCTGAACAGA
GACATGATTGTATCATTGTTGGTTTGAACACGATTTAAGGCCTGCTATTTACCCTGGGTTATCCTTGGG
TTCAACTATATCATCGGAGGCTCATACCAATGGACTTGGGAGGAAGAAATTTCTATCCACACCTCAG
TTTTTGTACCGCTGGCTGCCAGTAGGAGAGGAGGAGTATCAGGATTTGGTGTGCCCCCTGCTAGCATG
AGGCGAGCTGCTGATCAGAAATGGCGGAGGCGGGAGACACAACCTGGGGCCAGGGCTTTCGACTTGGAGAC
CAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Restriction Sites: Sgfl-Mlul



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**Plasmid Map:**


**ACCN:** NM\_001134671

**Insert Size:** 696 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\\_001134671.2](#)

RefSeq Size: 3284 bp

RefSeq ORF: 696 bp

Locus ID: 79139

UniProt ID: [Q9BUN8](#)

Cytogenetics: 8q24.13

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Amyotrophic lateral sclerosis (ALS)

MW: 26.4 kDa

**Gene Summary:** The protein encoded by this gene is a member of the derlin family. Members of this family participate in the ER-associated degradation response and retrotranslocate misfolded or unfolded proteins from the ER lumen to the cytosol for proteasomal degradation. This protein recognizes substrate in the ER and works in a complex to retrotranslocate it across the ER membrane into the cytosol. This protein may select cystic fibrosis transmembrane conductance regulator protein (CFTR) for degradation as well as unfolded proteins in Alzheimer's disease. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Aug 2012]