

Product datasheet for **SC127475**

DERL1 (NM_024295) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DERL1 (NM_024295) Human Untagged Clone
Tag:	Tag Free
Symbol:	DERL1
Synonyms:	DER-1; DER1; derlin-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127475 sequence for NM_024295 edited (data generated by NextGen Sequencing)

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ATGTCGGACATCGGAGACTGGTTCAGGAGCATCCCGGCGATCACGCGCTATTGGTTCGCC
GCCACCGTCGCCGTGCCCTTGGTCGGCAAACCTCGGCCTCATCAGCCCGCCTACCTCTTC
CTCTGGCCCGAAGCCTTCTTTATCGCTTTCAGATTTGGAGGCCAATCACTGCCACCTTT
TATTTCCCTGTGGGTCCAGGAACTGGATTTCTTTATTTGGTCAATTTATATTTCTTATAT
CAGTATTCTACGCGACTTGAAACAGGAGCTTTTGATGGGAGGCCAGCAGACTATTTATTC
ATGCTCCTCTTTAACTGGATTTGCATCGTGATTACTGGCTTAGCAATGGATATGCAGTTG
CTGATGATTCCTCTGATCATGTCACTTTATGTCTGGGCCAGCTGAACAGAGACATG
ATTGTATCATTTTGGTTTGGAAACAGGATTTAAGGCCTGCTATTTACCCTGGGTTATCCTT
GGATTCAACTATATCATCGGAGGCTCGGTAATCAATGAGCTTATTGAAAATCTGGTTGGA
CATCTTTATTTTTTCTAATGTTTCAGATACCCAATGGACTTGGGAGGAAGAAATTTCTA
TCCACACCTCAGTTTTGTACCGCTGGCTGCCAGTAGGAGAGGAGGAGTATCAGGATTT
GGTGTGCCCCCTGCTAGCATGAGGCGAGCTGCTGATCAGAATGGCGGAGGCGGGAGACAC
AACTGGGGCCAGGGCTTTCGACTTGGAGACCACTGA

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Clone variation with respect to NM_024295.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024295 unedited
 TTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGCTGGTCCGAATT
 CGGTGGCGCCACGTCCGCCCGTCTCCGCCTTCTGCATCGCGGCTTCGGCGGCTTCCACCT
 AGACACCTAACAGTCGCGGAGCCGGCCGCTCGTGAGGGGTCGGCACGGGGAGTCGGGC
 GGTCTTGTGCATTTGGCTACCTGTGGTTCGAAGATGTCGGACATCGGAGACTGGTTCAG
 GAGCATCCCGGCGATCACGCGCTATTGGTTCGCCGCCACCGTCGCCGTGCCCTTGGTCGG
 CAAACTCGGCCTCATCAGCCCGGCCTACCTCTTCTCTGGCCCGAAGCCTTCCTTTATCG
 CTTTCAGATTTGGAGCCAATCACTGCCACCTTTTATTTCCCTGTGGGTCCAGGAAGTGG
 ATTTCTTTATTTGGTCAATTTATATTTCTTATATCAGTATTCTACGCGACTTGAAACAGG
 AGCTTTTGATGGGAGGCCAGCAGACTATTTATTCATGCTCCTCTTAACTGGATTGCAT
 CGTGATTACTGGCTTAGCAATGGATATGCAGTTGCTGATGATTCTCTGATCATGTCAGT
 ACTTTATGTCTGGGCCAGCTGAACAGAGACATGATTGTANTCATTGGTTTGGAAACAC
 GATTTAAGGCCTGCTATNTACCCTGGGTATCCTTGGATTCAACTATATCATCGGAGGG
 CTCGGTAATCAATGAGCTTATTGAAATCCTGGTGGACATCTTATTTTTNCCTAATGT
 CAGATACCCATGGACTTNGNGAGGAAGAAATTTCTATCACAACCTCAATTTTGNACGCT
 GCTGCCATNGGAGAGGGGAGATTANGGGNTTTGGGGGGGCCCTGCTNCATGAGGCAG
 CTGTGATA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024295 unedited
 TCCTTTTATTTACAATTTTTACCATAAAAGGATAGTTTACAAAAGGGAAGTCCTTTATAC
 AAAATAAGGATTTTTTTTTTCCATTTGTAAGAGAATCCACTGTCATGTTTTGCCTTGTC
 AAGTCAAACTCAATAGCTTGTGGTAAAATTATTCCAGAAACATAATCCAGACAAA
 ATCAATAACGTATCAGCTTCTAACCATGTTTAAAGAGGAATAACTTCATGAACATTTTG
 CCCTGAACTGAAGAGTTCTAAATACTTGTAAACCTTTAGGAAAAAATGACTGCTCGCAGG
 CAGCTGACTGGTAAGAGGGTACACCAGAGACTCCGGGTCACTCACTGTCAGAATATTCTT
 ATACATACAATGAGTCTCCACGCCTGTACAATGAGTGTACGTGCAACATAATTGGAGTAA
 TGGCCTCTAAAATTTTACAAGTAACTTTATTGTGGCCACAGTGAACAACAAAACATGA
 CAGTTAAGGTTTCAAGACTCTCCACCTATTTTATCATATAAAATTAATATGGAGAGGTAC
 ACACAACTCTATTCAAAATGAGAAGTTGTTTGGCAACTCTCATTTCCTAGGATAACACA
 CATCACACTGTTTAAAGAGTGGGGGAAAGAATAGTCATACTGTTAGAGCACAAATGTTTCCT
 GAAAAGAACTGATCAAAACGTTTGAAGCCTTTNTAGTTGCCTCAAAGTGTGACAGCCAC
 TCAATACTGCTCCTAACAGTCTGCTNTCAGATAACGTATANAATAAATAACTGTGTGAA
 AAGCCATGGCCTTCANNAAACTTATTTGGTTATGAGCCAAGCTCTGATAGGAAAAGCCAC
 CTACGAAAAAAGTGTGGGTATTAAGCTGTCTGATCACAGACTGTCATTATGACTCAAATA
 CACACCTCAACCAATGATCTAAGCATTACCTAATATGTATCCCTAGAGTGCTACATAG
 CTTTAAAG

Restriction Sites:

NotI-NotI

ACCN:

NM_024295

Insert Size:

3080 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).

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.
RefSeq:	NM_024295.3 , NP_077271.1
RefSeq Size:	3033 bp
RefSeq ORF:	756 bp
Locus ID:	79139
UniProt ID:	Q9BUN8
Cytogenetics:	8q24.13
Domains:	DER1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Amyotrophic lateral sclerosis (ALS)
Gene Summary:	<p>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]</p>