

Product datasheet for **SC114512**

DERL2 (NM_016041) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DERL2 (NM_016041) Human Untagged Clone
Tag:	Tag Free
Symbol:	DERL2
Synonyms:	CGI-101; derlin-2; DERtrin-2; F-LAN-1; F-LANa; FLANa
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_016041 edited

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GGGAAGATGGCGTACCAGAGCTTGGCGTGGAGTACCTGCAGATCCCACCGGTCAGCCG
GCCTACACCACTGCCTGCGTCTCACCACCGCCGCGTGCAGTTGGAATTGATCACACCT
TTTCAGTTGTACTTCAATCCTGAATTAATCTTTAAACACTTTCAAATATGGAGATTAATC
ACCAACTTCTTATTTTTTGGGCCAGTTGGATTCAATTTTTTATTTAACATGATTTTTCTA
TATCGTTACTGTGAATGCTAGAAGAAGGCTCTTCCGAGGTCGGACAGCAGACTTTGTA
TTTATGTTCTTTTTTGGTGGATTCTTAATGACCCTTTTTGGTCTGTTGTGAGCTTAGTT
TTCTTGGGCCAGGCTTTACAATAATGCTCGTCTATGTGTGGAGCCGAAGGAACCCCTAT
GTCCGCATGAACCTTCTCGGCCTTCTCACTTCCAGGCCCTTTCTGCCCTGGGTGCTC
ATGGGATTTTCTTGTGTTGGGAACTCAATCATTGTGGACCTTTTGGGTATTGCAGTT
GGACACATATATTTTTCTTGAAGATGTATTTCCAATCAACCTGGTGAATAAGAATT
CTGAAAACACCATCTATTTTGAAGCTATTTTGTACACAGATGAGGATCCAAATTAC
AATCCACTACCTGAGGAACGGCCAGGAGCTTCGCCTGGGGTGAGGGCCAGCGGCTTGA
GGTTAAAGCAGCAGTGCCAATAATGAGACCCAGCTGGGAAGGACTCGGTGATACCACTG
GGATCTTTTATCCTTTGTTGCAAAAGTGTGGACACTTTTGACAGCTTGGCAGATTTAAC
TCCAGAAGCACTTTATGAAATGGTACACTGACTAATCCAGAAGACATTTCCAACAGTTTG
CCAGTGGTTCTCACTACACTGGTACTGAAAGTGAATTTCTTAGAGCCAAAAAACTGGA
GAAACAAATATCCTGCCACCTCTAACAAGTACATGAGTACTTGATTTTTATGGTATAAGG
CAGAGCCTTTTCTTCTTCTTGATAGATGAGGCCATGGTGAAATGGAAGTTTCAGAG
AGGACAAAAATAAACGGAATTCATTTTCTCTCACTAAAAAAAAAAAAAAAAAAAAA
AAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_016041 unedited NNGGTTCAAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACCAGGGNAAGAG GCGTACCAGAGCTTGCGGCTGGAGTACCTGCAGATCCCACCGTCCAGCCGCGCTACACC ACTGCCTGCGTCTCACCACCGCCGCGTGCAGTTGGAATTGATCACACCTTTTCAGTTG TACTTCAATCCTGAATTAATCTTTAAACACTTTCAAATATGGAGATTAATCACCACCTTC TTATTTTTTGGGCCAGTTGGATTCAATTTTTTATTTAACATGATTTTTCTATATCGTTAC TGTCGAATGCTAGAAGAAGGCTCTTCCGAGGTCGGACAGCAGACTTTGTATTTATGTTTC CTTTTTGGTGGATTCTTAATGACCCTTTTGGTCTGTTTGTGAGCTTAGTTTTCTTGGGC CAGGCCTTTACAATAATGCTCGTCTATGTGTGGAGCCGAAGGAACCCCTATGTCCGCATG AACTTCTTCGGCCTTCTCAACTCCAGGCCCTTTCTGCCCTGGGTGCTCATGGGATTT TCCTTGTGTGGGAACTCAATCATTGTGGACCTTTTGGGTATTGCAGTTGGACACATA TATTTTTCTTGAAGATGTATTTCCCAATCAACCTGGTGAATAAGAATTCTGAAAACA CCATCTATTTTGAAGCTATTTTGTATACACCAGATGAGGATCCAAATTACAATCCACTA CCTGAGGAACGGCCAGGAGGCTTCGCCTGGGGGTGAGGGCCAGCGCTTGGGAGGTAAA GCAGCAGTGCCAATAATGAGACCCAGCTGGAAGGNACTCGTGATACCCACTGGGATCTT TTATNCTTTNGTGCANAAGTGTGGACACTTTTGACAGCTGGNCAGATTTTAACTTCAGAA GCACTTTATGAAATGGNTACACTGACTAATNCAGAAGACAT
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_016041 unedited TTGAGTTCAGTTTTTTTTTTTTTTTTTTTACGTTGGGGTATTTTGGGAATTCGTTTTTT TTGTGCCTCTCTGGAACCTCCTTTACACCATGGGGCTCTTCTATCAAGAAAAGGAAGAA AAGGCTCTGCCTTATACCATAAAAAATCAAGTACTCATGTACTTGTAGAGGTGGGCAGAT ATTTGGTCTCCAGTTTTTTGGCTCTAAGAATTAACACTTTGGGTACCATTGTAGTGAGG AACCCCTGGCAAACCTGTGGGAAATGGCTTCTGGGTTTATCCAGGGGACCATTTCAAAAA GGGGCTTCGGGGGTTAAATTCGGCCAGCCCGGAAAAAGGGGGCCACCTTTTTGGCCC CAAGGGTTAAAAAGATCCCCCGGGGGGTTTTAACCGGTTCCCTTTCCCGGGGGGGG GGCCCTATTTTTTTGGGCCCCGGGGGGTTTTTAACCCCCAAACCCGGTGGGGGCC TTTTCCCCCGGGGGGAAAAAACCCCTTGGGGGGGGGTTTCTNNGGGAATAGGGGG TTATTATTTATT
Restriction Sites:	NotI-NotI
ACCN:	NM_016041
Insert Size:	1200 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:	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:	<u>NM_016041.2, NP_057125.2</u>

RefSeq Size: 1157 bp

RefSeq ORF: 720 bp

Locus ID: 51009

UniProt ID: [Q9GZP9](#)

Cytogenetics: 17p13.2

Domains: DER1

Protein Families: Transmembrane

Gene Summary: Proteins that are unfolded or misfolded in the endoplasmic reticulum (ER) must be refolded or degraded to maintain the homeostasis of the ER. DERL2 is involved in the degradation of misfolded glycoproteins in the ER (Oda et al., 2006 [PubMed 16449189]).[supplied by OMIM, Mar 2008]
Transcript Variant: This variant (1) encodes the longest isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.