

Product datasheet for **RG200959**

DERL1 (NM_024295) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DERL1 (NM_024295) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DERL1
Synonyms:	DER-1; DER1; derlin-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200959 representing NM_024295 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGACATCGGAGACTGGTTCAGGAGCATCCCGGCGATCACGCGCTATTGGTTCGCCGCCACCGTCG
CCGTGCCCTTGGTCGGCAAACCTCGGCCTCATCAGCCCGGCCTACCTCTTCTCTGGCCCCGAAGCCTTCT
TTATCGCTTTAGATTTGGAGGCCAATCACTGCCACCTTTTATTTCCCTGTGGTCCAGGAAGTGGATTT
CTTTATTTGGTCAATTTATTTCTTATATCAGTATTCTACGCGACTTGAACAGGAGCTTTTGATGGGA
GGCCAGCAGACTATTTATTCATGCTCCTCTTAACTGGATTTGCATCGTGATTACTGGCTTAGCAATGGA
TATGCAGTTGCTGATGATTCCTCTGATCATGTCACTATTATGTCTGGGCCAGCTGAACAGAGACATG
ATTGTATCATTTTGGTTTGAACACGATTTAAGGCCTGCTATTTACCCTGGGTTATCCTTGGATTCAACT
ATATCATCGGAGGCTCGTAATCAATGAGCTTATTGAAATCTGGTTGGACATCTTTATTTTCTCAAT
GTTTCAGATACCAATGGACTTGGGAGGAAGAAATTTTCTATCCACACCTCAGTTTTTGTACCGCTGGCTG
CCCAGTAGGAGAGGAGGAGTATCAGGATTTGGTGTGCCCTGCTAGCATGAGGCGAGCTGCTGATCAGA
ATGGCGGAGGCGGAGACAACTGGGGCCAGGGCTTTGACTTGGAGACCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200959 representing NM_024295
 Red=Cloning site Green=Tags(s)

MSDIGDWFRSIPAITRYWFAATVAVPLVGKLGKLSPAYLFLWPEAFLYRFQIWRPITATFYFPVGPPTGF
 LYL VNL YFL YQYSTRLETGAFDGRPADYLFMLLFNWICIVITGLAMDQLLMIPLIMSVLYVWAQLNRDM
 IVSFWFGTRFKACYLPWVILGFNYIIGGSVINELIGNLVGHLYFFLMFRYPMDLGGRNFLSTPQFLYRWL
 PSRRGGVSGFGVPPASMRRAADQNGGGGRHNWGGFRLGDQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024295

ORF Size: 753 bp

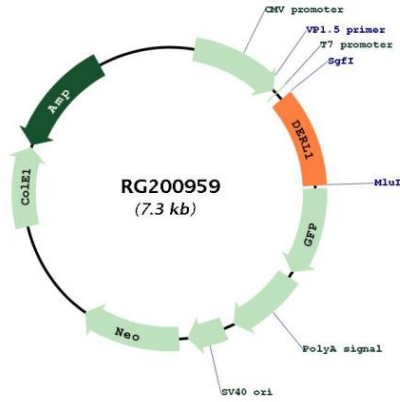
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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_024295.6
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>

Product images:



Circular map for RG200959