

## Product datasheet for **MC200453**

### Derl1 (NM\_024207) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Derl1 (NM\_024207) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Derl1  
**Synonyms:** 1110021N07Rik; A1195141; AW551338; Derlin-1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC003454 sequence for NM\_024207  
 GTCCGAATTCGGTGGCGCCACGTCGGTCTCCGCCTCTGCACAGCGGCTGCGCCTCCACTTCCCT  
 GGCCAAGCCGGCCGCGGAGCGGGGTGGGCACGGGAGGACGCGGGCGCTGCGCAGCCGGTCACCTGAC  
 GGGCGACCATGTCGGACATCGGGGACTGGTTCAGGAGCATCCCGCCATCACGCGCTACTGGTTTGTCTGC  
 CACCGTTGCTGTCCCCTTGATCGCAAGCTCGGCATCATCAGCCCGGCCTACTTCTTCTCTGGCCCGAA  
 GCCTTCTCTATCGTTCCAGATATGGAGGCCGTTCACTGCCACCTTTTACTTCCCGTGGGCCAGGGA  
 CTGGATTCTGTATTTGGTCAATTTATATTTCTTATATCAGTATTCTACTCGGCTGAAGCAGGAGCTTT  
 TGACGGGAGGCCAGCAGACTATTTATTCATGCTTCTCTTAACTGGATCTGCATCGTTATTACTGGCTTA  
 GCAATGGATATGCAGCTGCTGATGATCCCTCTGATCATGTCAGTGCTCTACGTCTGGGCCAGCTGAACA  
 GAGACCTGATCGTGTCTGTTCTGGTTCGGAACGCGATTTAAGGCCTGTACTTACCTTGGTTATCCTTGG  
 ATTCAACTATATCATTGGAGGCTCGGTGATCAATGAGCTCATTGGAACCTTGTGCGCCATCTTTATTTT  
 TTCTGATGTTTACAGATACCAATGGACTTGGGAGGAAGGAATTTTCTGTCCACACCTCAGTTTTTGTACC  
 GCTGGCTACCCAGTAGGAGAGGAGGGGTGTGAGGATTTGGTGTGCCCCCTGCTAGCATGAGGCGAGCTGC  
 TGATCAGAATGGCGGAGGCGGGAGACACAAGTGGGCCAGGGCTTCCGACTTGGAGACCAGTGAGGGGCA  
 GCCCTGGCCTGCTCACCAGCCATGCCGAGCAGATGACAGTCTCCTCCAGTGCTGGGCATGCTTAGTGGC  
 CGAGCTCTTGCTGCCGCTCTGGACCTGACCCACACTGAATGTAGTCTTTCAGTACAAGACATTTTTTA  
 AGTCCTCAAGGAAAATACAAGTGTCTCAAGTTTCATGATTCTCATTCAAGTCCTTACTGCTATGAAGA  
 ACAAAATACAGCTGTGCAGATTTCAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_024207  
**Insert Size:** 756 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC003454</a></u> , <u><a href="#">AAH03454</a></u>
<b>RefSeq Size:</b>	1166 bp
<b>RefSeq ORF:</b>	756 bp
<b>Locus ID:</b>	67819
<b>UniProt ID:</b>	<u><a href="#">Q99J56</a></u>
<b>Cytogenetics:</b>	15 D1
<b>Gene Summary:</b>	Functional component of endoplasmic reticulum-associated degradation (ERAD) for misfolded luminal proteins. May act by forming a channel that allows the retrotranslocation of misfolded proteins into the cytosol where they are ubiquitinated and degraded by the proteasome. May mediate the interaction between VCP and the misfolded protein. Also involved in endoplasmic reticulum stress-induced pre-emptive quality control, a mechanism that selectively attenuates the translocation of newly synthesized proteins into the endoplasmic reticulum and reroutes them to the cytosol for proteasomal degradation. By controlling the steady-state expression of the IGF1R receptor, indirectly regulates the insulin-like growth factor receptor signaling pathway.[UniProtKB/Swiss-Prot Function]