

## Product datasheet for **MG203204**

### Derl1 (NM\_024207) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Derl1 (NM\_024207) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Derl1  
**Synonyms:** 1110021N07Rik; AI195141; AW551338; Derlin-1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG203204 representing NM\_024207  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGGACATCGGGGACTGGTTCAGGAGCATCCCGGCCATCACGCGCTACTGGTTTGCTGCCACCCTTG  
CTGTCCCCTTGATCGGCAAGCTCGGCATCATCAGCCCGCCTACTTCTCCTCTGGCCCCGAAGCCTTCT  
CTATCGCTTCCAGATATGGAGGCCGTTCACTGCCACCTTTACTTCCCCGTGGGCCAGGGACTGGATTT  
CTGTATTTGGTCAATTTATTTCTTATATCAGTATTCTACTCGGCTTGAAGCAGGAGCTTTTGACGGGA  
GGCCAGCAGACTATTTATTCATGCTTCTTTAACTGGATCTGCATCGTTATTACTGGCTTAGCAATGGA  
TATGCAGCTGCTGATGATCCCTCTGATCATGTCACTGCTCTACGTCTGGGCCAGCTGAACAGAGACCTG  
ATCGTGTCTGTTCTGGTTCGGAACGCGATTTAAGGCCTGTTACTTACCTTGGGTTATCCTTGGATTCAACT  
ATATCATTGGAGGCTCGGTGATCAATGAGCTCATTGGAACCTTGTGGCCATCTTTATTTCTTCTGAT  
GTTCCAGATACCAATGGACTTGGGAGGAAGGAATTTCTGTCCACACCTCAGTTTTTGTACCGCTGGCTA  
CCCAGTAGGAGAGGGGGTGTGAGGATTTGGTGTGCCCTGCTAGCATGAGGCGAGCTGCTGATCAGA  
ATGGCGGAGGCGGGAGACAACTGGGGCCAGGGCTTCCGACTTGGAGACCAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203204 representing NM\_024207  
Red=Cloning site Green=Tags(s)

MSDIGDWFRSIPAITRYWFAATVAVPLIGKLGII SPAYFFLWPEAFLYRFQIWRPFTATFYFPVPGTGF  
 LYL VNL YFLYQYSTRLEAGAFDGRPADYLFMLLFNWICIVITGLAMDQLLMIPLIMSVLYVWAQLNRDL  
 IVSFWFGTRFKACYLPWVILGFNYIIGGSVINELIGNLVGHLYFFLMFRYPMDLGGRNFLSTPQFLYRWL  
 PSRRGGVSGFGVPPASMRRAADQNGGGGRHNWQGFR LGDQ

TRTRPLE - GFP Tag - V

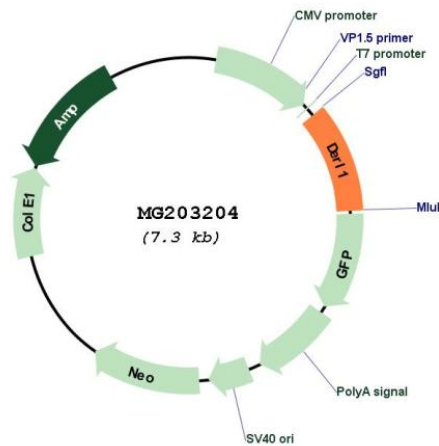
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_024207

**ORF Size:** 753 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_024207.4</a>
<b>RefSeq Size:</b>	3146 bp
<b>RefSeq ORF:</b>	756 bp
<b>Locus ID:</b>	67819
<b>UniProt ID:</b>	<a href="#">Q99J56</a>
<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]