

## Product datasheet for MC211802

### Ddrgk1 (NM\_029832) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ddrgk1 (NM_029832) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ddrgk1
Synonyms:	1110001I20Rik; 2600009E05Rik; AI326138; Ufbp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC211802 representing NM_029832 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGGGGCCCTGGGTGTATCTGGTGGCGGCAGTTTTGCTCATCGGCCTGATCCTCTTCCTGACTCGCA  
GCCGGGGTCGGGCGGCAGCAGCTGACGGAGAACCACTGCACAATGAGGAAGAGAGGGCAGGAGCAGGCCA  
GGTAGGCCGCTCTTTGCCCCAGGAGTCTGAAGAACAGAGAAGTGAAGCAGACCCCGGCTCGGAGGGAC  
TTGGGCAGCCGCTACAGGCCAGCGTCGAGCCAGCGAGTGGCCTGGGAAGACGGGGATGAGAATGTGG  
GTCAAAGTGTATTCCAGCCCAGGAGGAAGAAGGCATTGAGAAGCCAGCAGAAGTTCACCCAACAGGGAA  
AATTGGAGCCAAGAACTACGGAAGCTAGAGGAAAAACAGGCTCGAAAGGCTCAGCGAGAGGCAGAGGAG  
GCTGAACGTGAAGAACGGAACGCCTAGAGTCCCAACGTGAGGCCGAATGGAAGAAGGAAGGAACGGC  
TTCGCCTGAAGGAAGAACAAGGAGGAGGAAGAGAGGAAGGCTCAGGAGGAGCAGGCCCGGCGGGAGCA  
CGAGGAGTACCTGAACTGAAGGAGGCCTTCGTGGTAGAAGAAGAAGGTGTTAGCGAAACCATGACTGAG  
GAGCAGTCTCACAGCTTCCTGACAGAATTCATCAATTACATCAAGAAGTCCAAGGTTGTGCTTTTGAAG  
ATCTGGCTTTCCAGATGGGCCTAAGGACTCAGGACGCCATAAACCGCATCCAGGACCTGCTGACGGAGGG  
GACTCTAACAGGTGTGATTGACGACCGGGGCAAGTTTATCTACATAACCCAGAGGAAGTGGCTGCCGTG  
GCCAATTCATCCGACAGCGGGGCGGGTGTCCATCACAGAGCTTGCCAGGCCAGCAACTCCCTCATCT  
CCTGGGGCCAGGACCTCCCTGCCAGGCTTCAGCCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_029832



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<b>Insert Size:</b>	948 bp
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_029832.2</a> , <a href="#">NP_084108.1</a>
<b>RefSeq Size:</b>	1101 bp
<b>RefSeq ORF:</b>	948 bp
<b>Locus ID:</b>	77006
<b>UniProt ID:</b>	<a href="#">Q80WW9</a>
<b>Cytogenetics:</b>	2 F1
<b>Gene Summary:</b>	Protein which interacts with the E3 UFM1-protein ligase UFL1 and one of its substrates TRIP4 and is required for TRIP4 ufmylation. Through TRIP4 ufmylation may regulate nuclear receptors-mediated transcription. May play a role in NF-kappa-B-mediated transcription through regulation of the phosphorylation and the degradation of NFKBIA, the inhibitor of NF-kappa-B (By similarity). May also play a role in the cellular response to endoplasmic reticulum stress (PubMed:21494687). Plays a role in cartilage development through SOX9, inhibiting the ubiquitin-mediated proteasomal degradation of this transcriptional regulator (PubMed:28263186).[UniProtKB/Swiss-Prot Function]