

## Product datasheet for **MG201545**

### Dr1 (NM\_026106) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dr1 (NM\_026106) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Dr1  
**Synonyms:** 1700121L09Rik; Dr1l; NC2; NC2beta  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201545 representing NM\_026106  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTTCCTCGTCTGGCAACGACGATGATCTCACTATCCCCAGAGCTGCTATAAATAAGATGATCAAAG  
 AGACTCTTCTAATGTCCGGGTGGCCAACGATGCCCGAGAGCTGGTAGTGAAGTCTGCACGGAATTCAT  
 TCACCTTATATCTTCTGAAGCCAACGAGATTTGTAACAAGTCAGAAAAGAAGACAATTTACCAGAGCAT  
 GTTATACAAGCACTGGAAAGTTTGGGCTTTGGCTCTTACATCAGTGAAGTAAAAGAAGTCTTACAAGAAT  
 GCAAGACAGTAGCATTAAAAGAAGAAAGGCCAGTTCTCGTTTGGAAAACCTCGGCATTCTGAAGAGGA  
 ATTATTGAGACAGCAACAGGAATTTTTCAAAAGCTAGACAGCAACAAGCAGAATTGGCCCAACAGGAA  
 TGGCTTCAAATGCAGCAAGCAGCTCAACAAGCCCAGCTGGCTGCAGCCTCAGCCAGCGCGTCCACTCAAG  
 CAGGATCTTACAAGACGAAGAAGATGATGATGACATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201545 representing NM\_026106  
 Red=Cloning site Green=Tags(s)

MASSSGNDDDLTIPRAAINKMIKETLPNVRVANDARELVVNCCTEFIHLISSEANEICNKSEKKTISPEH  
 VIQALES LGFGSYISEVKEVLQECKTVALKRRKASSRLENLGIPEEELLRQQQLFAKARQQQAELAQQE  
 WLQMQQAAQQAQLAAASASASTQAGSSQDEEDDDDI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

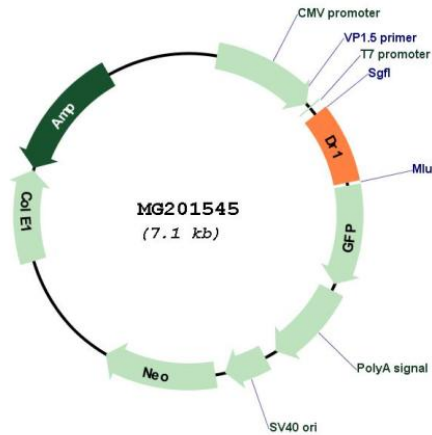


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_026106

ORF Size: 528 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.

<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>NM_026106.4, NP_080382.2</u>
<b>RefSeq Size:</b>	3080 bp
<b>RefSeq ORF:</b>	531 bp
<b>Locus ID:</b>	13486
<b>UniProt ID:</b>	<u>Q91WV0</u>
<b>Cytogenetics:</b>	5 52.82 cM
<b>Gene Summary:</b>	The association of the DR1/DRAP1 heterodimer with TBP results in a functional repression of both activated and basal transcription of class II genes. This interaction precludes the formation of a transcription-competent complex by inhibiting the association of TFIIA and/or TFIIIB with TBP. Can bind to DNA on its own. Component of the ATAC complex, a complex with histone acetyltransferase activity on histones H3 and H4 (By similarity).[UniProtKB/Swiss-Prot Function]