

## Product datasheet for **MG202595**

### **Prl2c4 (NM\_011954) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prl2c4 (NM_011954) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prl2c4
Synonyms:	MRP-3; mrp/plf3; Mrpplf3; PLF-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202595 representing NM_011954 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTCCCTTCTTTGATTCAACCATGCTCCTGGATACTGCTCCTACTACTGGTGAACAGCTCGTTATTGT  
 GGAAGAATGTTGCCTCATTTCCCATGTGTGCAATGAGGAATGGTCGTTGCTTTATGTCCTTTGAAGACAC  
 ATTTGAATTAGCCGGCAGTTTGTCTCATAATATCAGTATAGAAGTTTCAGAACTGTTCACTGAATTTGAA  
 AACATTATTCTAACGTGTCTGGGCTCAGAGACAAAAGCCCCATGGGATGCAATACTTCTTCTCCTCCAA  
 CTCCAGAAAGCAAGGAACAAGCCAGGCTCACACACTATTCAGCTCTTCTGAAATCAGGAGCCATGATTTT  
 GGATGCCTGGGAAAGCCCTCTGGACGATCTAGTGAGTGAATTGTCTACCATAAAAAATGTCCTGATATA  
 ATCATCTCCAAAGCCACAGACATAAAGAAAAAGATCAACGCAGTCCGGAACGGGGTTAATGCCCTCATGA  
 GCACCATGCTTCAGAATGGAGATGAAGAAAAGAAGAACCTGCCTGGTTCTTGCAATCTGACAATGAAGA  
 TGCTCGCATTCTTTTATATGGCATGATCAGCTGCCTAGACAATGACTTTAAGAAGGTTGATATTTAT  
 CTAACGTCCTGAAGTGTACATGTTAAAAATAGATAACTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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**Protein Sequence:** >MG202595 representing NM\_011954  
 Red=Cloning site Green=Tags(s)

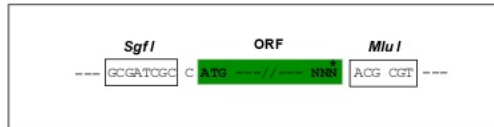
MLPSLIQPCSWILLLLL VNSSLWKNVASFPMCAMRNGRCFMSFEDTFELAGSLSHNISIEVSELFTEFE  
 KHYSNVSGLRDKSPMGCNTSFLPTPEskeQARLTHYSALLKSGAMILDAWESPLDDLSELSTIKNVPDI  
 IISKATDIKKKINAVRNGVNALMSTMLQNGDEEKKNPAWFLQSDNEDARIHSLYGMISCLDNDFFKKVDIY  
 LNVLKCYMLKIDNC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGCGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTACTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCGCGGAGCT

- - E E R V Stop

**ACCN:** NM\_011954

**ORF Size:** 672 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:**

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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_011954.2](#), [NP\\_036084.2](#)

**RefSeq Size:** 869 bp

**RefSeq ORF:** 675 bp

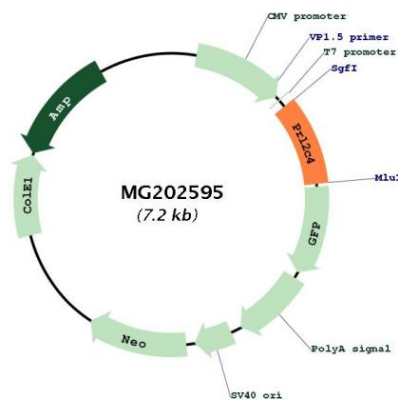
**Locus ID:** 26421

**UniProt ID:** [P04768](#)

**Cytogenetics:** 13 A1

**Gene Summary:** May have a role in embryonic development. It is likely to provide a growth stimulus to target cells in maternal and fetal tissues during the development of the embryo at mid-gestation. May play a role during wound healing and in the hair follicle cycle as a growth factor and/or an angiogenesis factor. May play a role in microvilli formation and cell proliferation of neuroblastoma cells.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG202595