

## Product datasheet for **RR202153**

### Plcb2 (NM\_053478) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Plcb2 (NM_053478) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plcb2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR202153 representing NM_053478 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCTTTGCTCAACCCGTCTGTTGCCCTAAGTGAAGGCATATCTGAGCCAAGGGGAGCGCTTCA  
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AAGTTTATCTCCTTCGAGTTCTCTGCACAGAAGAACAGGAGTTACCTTGTCTCTTCCTTCACGGAGCTCA  
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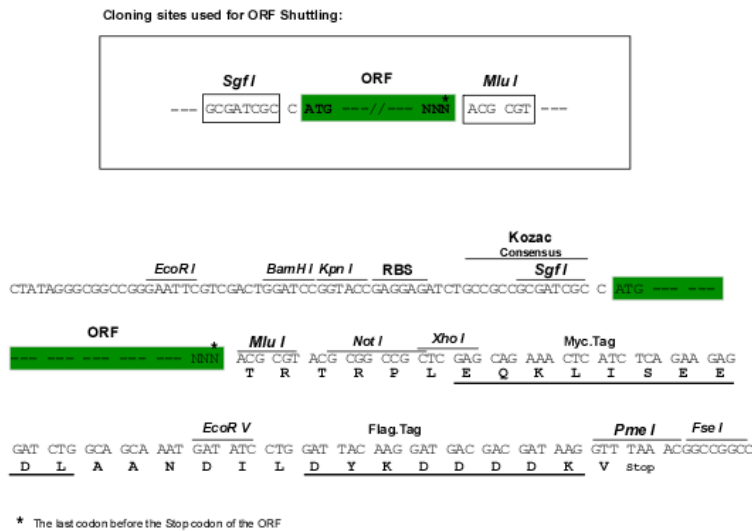
Protein Sequence: >RR202153 representing NM\_053478  
 Red=Cloning site Green=Tags(s)

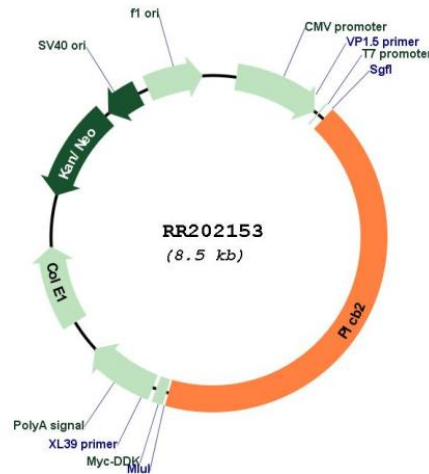
MSLLNPVLLPPKVAYLSQGERFIKWDETSIASPVILRVDPKGYLLYWTHQSKEMEFLDVTSIRDTRFG  
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 RSVRTYVEVELFGLPGDPKRRYRKLSPANSINPVWKEEPIFEKILVPELASLRIAVMEEGGKFIGHR  
 IIPINALHSGYHHLCLRSESNMPLTMPALFVLEMKDYPDTWADLTVALANPIKYFSAHDKKSVKLKEV  
 TGSLPEKLFSGIPVASQNGAPVSAGNGSTAPGTAKKEEATKEVAEPQTTSEELRELKGVVQLQRRHEK  
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 LKDRLEQELQQGEEQYRSVLKRKEQHVTEQIAKMMELAREKQAAELKSFKETSETDTKEMKKLEAKRL  
 ERIQAMTKVTTDKVAQERLKRINNSHIQEVVQAVKQMTETLERHQEKLEEKQTAACLEQIQAMEKQFQEK  
 ALAEYEAKMKGLEAEVKESMRACFKACFPTEAEKPERPCEASEESCQEPLVNKTDQESRLSTGATCE  
 QDRHSGEPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_053478

**ORF Size:** 3549 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.

**RefSeq Size:** 3999 bp

**RefSeq ORF:** 3552 bp

**Locus ID:** 85240

**UniProt ID:** [O89040](#)

**Cytogenetics:** 3q35

**MW:** 134.9 kDa

**Gene Summary:** may play a role in inositol mediated signal transduction of bitter taste perception [RGD, Feb 2006]