

## Product datasheet for **MG225047**

### **Cpvl (NM\_027749) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cpvl (NM_027749) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cpvl
Synonyms:	4933436L16Rik; HVLP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG225047 representing NM\_027749  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTTCTGTGCCAAGTGAAGATGGTTGTTTCACTGATCTTGTTTATGGTCAGCCCTGGTATGGACTGT  
 TTCATGCAGTATACCGAAGTATCCTTGTTCAGTCTTCAAGGGGATGCAGGACAGCCTCTTTTCT  
 TAGCCCATACATCAAAAACGGGAAGATCAAGGAGGGGCAAGGAAGAGCATGGTCAGTCCGTTCCCTGGA  
 ATGAACGACAAGAGTTATGCCGGCTACATCACGGTGAACCAAGTACAACAGCAACCTCTTCTTGGT  
 TCTTCCGGCTCGGATGCAGCCTGAGGATGCCCCAGTAGTCTCTGGCTCAGGGTGGACCTGGAGGTT  
 ATCCATGTTTGGACTCTTGTAGAACACGGCCTTATATTATCACAAGTAAACATGACCGTTGTGGCCAGA  
 GACTTCCCTTGGACCTTACCCTTCCATGCTCTACATTGATAATCCGGTGGTACAGGCTTACGCTTCA  
 CCGATCATTTCCAGGGATACGCCACCAGCGAGGATGATGTAGCCCAAGACTTGTACAGTGCCTGATTCA  
 GTTCTTACAGTTGTTCCCGAGTATGCAAAGAATGATTTTACGTCAGTGGCAGTCTTATGCAGGGAAA  
 TATGTTCCGGCCCTAGCACACTATATCCACTCCCTCAACCCCGTGCAGGAAATTCAAGATTCGCCTAAAAG  
 GAATTGCCATTGGAGATGCATACACTGATCCTGAATCGATTATAGGAGGGTATGCGGCATTCCCTATATGA  
 AATTGGCTTGTGGATGAACAGCAGCAGAAGTACTTCCAGAAGCAGTGTAGCAAGTGCCTAAAATACATC  
 AAAGAGCAGGAGTGGATGAAGGCCTTGAATCCTGGATAAGCTGCTAGATGGAGATGTAACAACCTGGT  
 CATCTTCTTCCAGAATGTGACAGGATGTACCAATTAACAACATTTTACAGTGCACGGAACCCAAAGGA  
 GCAAAGTTACTTTGAAAATTCTTGACGCTCCCCAAGTGAGACAAGCCATCCACGTGGGAAACCCAGAAC  
 TTCAGTACCGGTGCTGAGGTTGAGAAGCACCTGCGAGAGGACACAGTGAAGTCCGTGAAGCCCTGGCTGT  
 CTGAGATCATGAATTAACAAGTTCTCATCTACAATGGCCAAGTGGACATCATCGTGGCGGCTGCCCT  
 GACAGAGCGCTCCTTGTATGGCCATGACTGGAAGGGATCCCGAGCATAACAGAAGGGCACGTCGAAAGGTC  
 TGAAGATCTTCAAATCGGATAATGAAGTGGCTGGTTATGTGAGCGTGTGGGCAAAATCCATCAGGTAA  
 TCGTCCGAGGTGGAGGACACATTTGCCCTATGACCAGCCAATGAGATCTTTTATATGATCAATCGCTT  
 CATCTATGACAGAGGATGGGAACCTTATAATTCA

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>MG225047 representing NM\_027749  
 Red=Cloning site Green=Tags(s)

MVRAKWKMMVSLILFMVSPGDGLFHAVYRSILVQSFKGDAGQPLFLSPYIKNGKIKEGQRKSMVSPFPG  
 MNDKSYAGYITVNQTYNSNLFFWFFPARMQPEDAPVVLWLQGGPGSSMFLFVEHGPYIITSNMTVVAR  
 DFPWTFTL SMLYIDNPVGTGFSFDHFQGYATSEDDVAQDLYSALIQFFTLFPEYAKNDFVYTGESYAGK  
 YVPALAHYIHSLNPVRKFKIRLKGIAIGDAYTDPEIIGGYAAFLYEIGLLDEQQKYFQKQCSKCVKYI  
 KEQEWMKA FEILDKLLDGDVTTGSSFFQNVGTCTNYNIIQCTEPKEQSYFAKFLTLPQVRQAIHVGNN  
 FSDGAEVEKHLREDTVKSVKPLWSEIMNYYKVL IYNGQLDIIVAAAL TERSLMAMDWKGSRAYRRARRKY  
 WKIFKSDNEVAGYVRRVGKHFQVIVRGGHILPYDQPMRSDMINRFIYDRGWEPYNS

**TRTRPLE - GFP Tag - V**

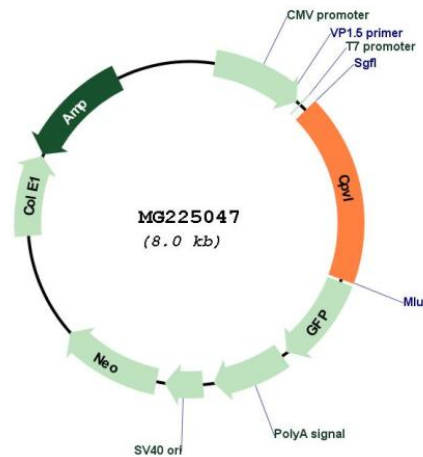
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_027749

ORF Size: 1434 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:** [NM\\_027749.2](#), [NP\\_082025.1](#)

**RefSeq Size:** 1597 bp

**RefSeq ORF:** 1437 bp

**Locus ID:** 71287

**UniProt ID:** [Q9D3S9](#)

**Cytogenetics:** 6 B3

**Gene Summary:** This gene encodes a member of the serine carboxypeptidase family of proteases that cleave amino acids from the C-terminus of a protein substrate. The human ortholog of this gene, where it was first characterized, was found to be upregulated during the maturation of monocytes to macrophages. The encoded protein may be involved in antigen processing, digestion of phagocytosed proteins in the lysosome and lamellipodium formation. Disruption of this gene in mice was found to cause embryonic lethality. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2015]