

Product datasheet for **RG202336**

CPVL (NM_031311) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPVL (NM_031311) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CPVL
Synonyms:	HVLP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202336 representing NM_031311
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTGGTGCCATGTGGAAGGTGATTGTTTCGCTGGTCTGTTGATGCCTGGCCCTGTGATGGGCTGT
 TTCGCTCCCTATACAGAAGTGTTTCCATGCCACCTAAGGGAGACTCAGGACAGCCATTATTTCTCACCCC
 TTACATTGAAGCTGGGAAGATCCAAAAAGGAAGAGAATTGAGTTTGGTCGGCCCTTTCCAGGACTGAAC
 ATGAAGAGTTATGCCGGCTTCTCACCGTGAATAAGACTTACAACAGCAACCTCTTCTTCTGGTTCTTCC
 CAGCTCAGATACAGCCAGAAGATGCCCCAGTAGTTCTCTGGTACAGGGTGGCCGGGAGTTTCATCCAT
 GTTTGGACTCTTTGTGGAACATGGGCCTTATGTTGTCAACAAGTAACATGACCTTGCCTGACAGAGACTTC
 CCCTGGACCACAACGCTCTCCATGCTTTACATTGACAATCCAGTGGGCACAGGCTCAGTTTTACTGATG
 ATACCCACGGATATGCAGTCAATGAGGACGATGTAGCACGGGATTTATACAGTGCCTAATTCAGTTTTT
 CCAGATATTTCTGAATATAAAAAATAATGACTTTTATGCTACTGGGGAGTCTTATGCAGGAAATATGTG
 CCAGCCATTGCACACCTCATCCATTCCTCAACCTGTGAGAGAGGTGAAGATCAACCTGAACGGAATTG
 CTATTGGAGATGGATATTCTGATCCCGAATCAATTATAGGGGGCTATGCAGAATTCCTGTACCAAATGG
 CTTGTTGGATGAGAAGCAAAAAAGTACTTCCAGAAGCAGTGCCATGAATGCATAGAACACATCAGGAAG
 CAGAACTGGTTTGGGCCCTTTGAAATACTGGATAAACTACTAGATGGCGACTTAACAAGTATCCTTCTT
 ACTTCCAGAATGTTACAGGATGTAGTAATTACTATAACTTTTTGCGGTGCACGGAACCTGAGGATCAGCT
 TTAATAAGTAAATTTTGTCACTCCCAGAGGTGAGACAAGCCATCCACGTGGGGAATCAGACTTTAAT
 GATGGAAGTATAGTTGAAAAGTACTTGCAGAAAGATACAGTACAGTACAGTAAAGCCATGGTTAACTGAAA
 TCATGAATAATTATAAGGTTCTGATCTACAATGGCCAACCTGGACATCATCGTGGCACCTGCCCTGACAGA
 GCGCTCCTTGATGGGCATGGACTGGAAAGGATCCAGGAATACAAGAAGGCAGAAAAAAAGTTTTGGAAG
 ATCTTTAAATCTGACAGTGAAGTGGCTGGTTACATCCGGCAAGCGGGTGACTTCCATCAGGTAATTATTC
 GAGGTGGAGGACATATTTACCCTATGACCAGCCTCTGAGAGCTTTTGACATGATTAATCGATTCATTTA
 TGGAAAAGGATGGGATCCTTATGTTGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG202336 representing NM_031311
 Red=Cloning site Green=Tags(s)

MVGAMWKVIVSLVLLMPGPCDGLFRSLYRSVSMPPKGDSDGQPLFLTPYIEAGKIQKGRELSLVGPFPLN
 MKSYAGFLTVNKTYSNLFFWFPAQIQPEDAPVVLWLQGGPGGSSMGLFVEHGPYVVTSNMTRLRDRDF
 PWTTLTSMLYIDNPVGTGFSFTDDTHGYAVNEDDVARLDLYSALIQFFQIFPEYKNNDFYVTGESYAGKYV
 PAIAHLIHSLNPVREVKINLNGIAIGDGYSDPESIIIGGYAEFLYQIGLLDEKQKQYFQKQCHECIEHIRK
 QNWFEEFILDKLLDGLTSDPSYFQNVGTGCSNYNFLRCTEPEDQLYYVKFLSLPEVRQAIHVGNTFN
 DGTIVEKYLREDTVQSVKPWLTEIMNNYKVLINYQLDIIVAAALTERSLSMGMWKGSSQYKKAEEKVVK
 IFKSDSEVAGYIRQAGDFHQVIIRGGGHILPYDQPLRAFDMINRFIYGKGWDPYVG

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_031311

ORF Size: 1428 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_031311.5](#)

RefSeq Size: 1691 bp

RefSeq ORF: 1431 bp

Locus ID: 54504

UniProt ID: [Q9H3G5](#)

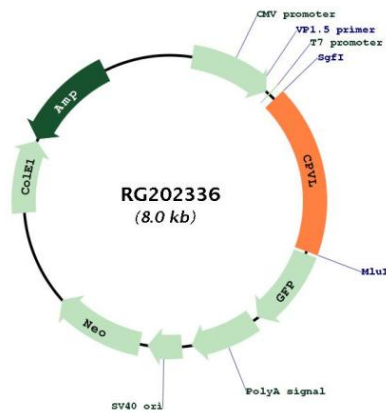
Cytogenetics: 7p14.3

Domains: serine_carbpept

Protein Families: Druggable Genome, Protease

Gene Summary: The protein encoded by this gene is a carboxypeptidase and bears strong sequence similarity to serine carboxypeptidases. Carboxypeptidases are a large class of proteases that act to cleave a single amino acid from the carboxy termini of proteins or peptides. The exact function of this protein, however, has not been determined. [provided by RefSeq, Jan 2017]

Product images:



Circular map for RG202336