

## Product datasheet for **RC230460**

### PREPL (NM\_001171606) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PREPL (NM_001171606) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PREPL
Synonyms:	CMS22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC230460 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCAGCAGAAGACCAAATTATTCTCCAAGCTTTGAAGTATAGTATTCCTCACCTTGAAAAATGCATGC  
AGAAACAGCATTGAATCACTATAAATTGCTGATCATTGTTACAATAGAATAAAAATTGAAAAAATCA  
CCTAACCAAGTGTCTTCAGAATAAACCCCAAGATATCAGAGTTAGCAAGAAACATCCCAAGTCGGAGCTTC  
TCATGTAAGGATCTTCAGCCTGTTAAACAAGAAAAACGAAAAACCCCTCCAGAAAACATGGATGCATTTG  
AAAAAGTGAACAATAATGAAACACAGCCACAAGAAGAATAGAAATCATCAATGTGGAAGTTAAACA  
TGGTGGTTTTGTTATTACCAAGAAGTTGTTGCTTGGTTCGTTCCAAAGATGAAGAAGCAGACAATGAT  
AATTATGAAGTTTTATTCAATTTGGAGGAACCTAAGTTAGACCAGCCCTTCATTGATTGTATCAGAGTTG  
CTCCAGATGAAAAATATGTGGCTGCCAAGATAAGAAGTGAAGATTCTGAAGCATCTACCTGTGTAATTAT  
AAAGCTCAGCGATCAGCCCGTAATGGAAGCTTCTTTCCCGAATGTGTCCAGTTTTGAATGGGTAAGGAC  
GAGGAAGATGAAGATGTTTTATTCTACACCTCCAGAGGAACCTTCGCTGTCATGACGTATATCGAGCCA  
CTTTTGGTGATAACAAACGTAATGAACGCTTTTACACAGAAAAAGACCCAAAGCTACTTTGTTTTCTTTA  
TCTTACAAAAGACAGTCGTTTCCCTACCATAAATATTATGAACAAGACTACTTCTGAAGTGTGGTTGATA  
GATGGCCTGAGCCCTGGGACCCACCAGTACTTATCCAGAAGCGAATACATGGGGTCTTTACTATGTTG  
AACACAGAGATGATGAATTATACATTCTCACTAATGTTGGAGAACCTACAGAATTAAGCTAATGAGAAC  
AGCGGCTGATACCCCTGCAATTATGAATTGGGATTTATTTTTACAATGAAGAGAAATACAAAAGTGATA  
GACTTGGACATGTTAAGGATCACTGTGTTCTATTTCTGAAGCACAGCAATCTCCTTTATGTTAATGTGA  
TTGGTCTGGCTGATGATTCAGTTCGGTCTCTAAAGCTCCCTCTGGGCCTGTGGATTCAATAATGATGA  
AAATTCTGACCCAAAGAAGTCCCTTTCAACTTTGCTCTCCAATACGTCCCCAAAATATTACACATAC  
AAGTTTGCAGAAGGCAAACCTGTTTGGAGAACTGGGCATGAAGACCCAATCACAAGACTAGTCGGTTTT  
TACGTCTAGAAGCAAAAGCAAGGATGGAAAATTAGTGCCAATGACTGTTTTCCACAAAACCTGACTCTGA  
GGACTTGCAGAAGAACTCTCTTGGTACATGTATATGGAGCTTATGGAATGGATTTGAAAATGAATTTT  
AGGCCTGAGAGGCGGTCTGGTGGATGATGGATGGATATTAGCATACTGCCATGTTGAGGTGGTGGTG  
AGTTAGGCCTCCAGTGGCAGCTGATGGCCGCTAACTAAAAACTCAATGGCCTTGCTGATTTAGAGGC  
TTGCATTAAGACGCTTCATGGCCAAGGCTTTTCTCAGCCAAGTCTAACACCCTGACTGCTTTCAGTGCT  
GGAGGGTGCTTGCAGGAGCATTGTGTAATTCTAATCCAGAGCTGGTGAAGCGGTGACTTTGGAGGCAC  
CTTTCTTGGATGTTCTAACACCATGATGGACACTACACTTCTCTGACATTAGAAGAATTAGAAGAATG  
GGGAATCCTTCTGATGAAAAACACAAGAAGTACATAAAAACGTTACTGTCCCTATCAAAAATATTA  
CCTCAGCATTATCCTTCAATTACATAACGGCATATGAAAACGATGAACGGGTACCTCTGAAAGGAATTG  
TAAGTTACTGAGAACTCAAGGAAGCCATCGCGGAGCATGCTAAGGACACAGGTGAAGGCTATCAGAC  
CCCTAATATTATCTAGATATTCAGCCTGGAGGCAATCATGTAATTGAGGATTCTCACAAAAAGATTACA  
GCCAAATTAATTCCTGTACGAGGAACCTGGACTTGACAGCACCAGTGTTCGAGGATCTTAAGAAAT  
ACCTGAAATTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC230460 protein sequence  
 Red=Cloning site Green=Tags(s)

```

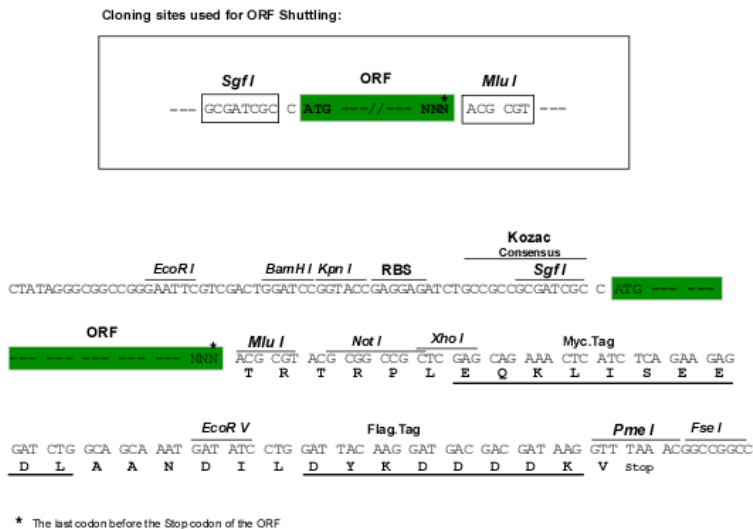
MQQKTKLFLQALKYSIPHLGKCMQKQHLNHYNFADHCYNRIKLLKYYHLTKCLQNKPKISELARNIPSRSF
SCKDLQPVKQENKPLPENMDAFEKVRTKLETQPQEEYEIINVEVKHGGFVYVYQEGCCLVRSKDEEADND
NVEVLFNLEELKLDQPFIDCIRVAPDEKYVAAKIRTEDSEASTCVIIKLSDQPVMEASFPNVSSFEWVKD
EEDEDVLFYTFQRNLRCHDVYRATFGDNKRNERFYTEKDPYFVFLYLTKDSRFLTINIMNKTTSEWLI
DGLSPWDPVLIQKRIHGVLYYVEHRDDELYILTNVGEPTFKLMRTAADTPAIMNWDLFFTMKRNTKVI
DLDMFKDHCVLFLKHSNLLYVNVIGLADDSVRSCLKPPWACGFIMDTNSDPKNCPPFQLCSPIRPPKYTTY
KFAEGKLFEEFGHEDPITKTSRVLRLKSKDGKLVPMTVFHKTDSEDLQKPLLVHVGAYGMDLKMNF
RPERRVLVDDGWILAYCHVRGGGELGLQWADGRLTKKLNGLADLEACIKTLHGQGFSSQSLTTLTAFSA
GGVLGALCNSNPFLVRAVTLAPFLDVLNTMMDTTLPLTLEEEWGNPSSDEKHKNYIKRYCPYQNIK
PQHYPYIHTAYENDERVPLKGIYSYTEKLKEAIAEHAKDTGEGYQTPNIILDIQPGGNHVEDSHKKIT
AQIKFLYEELGLDSTSVFEDLKKYLKF
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8008\\_d10.zip](https://cdn.origene.com/chromatograms/mk8008_d10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001171606

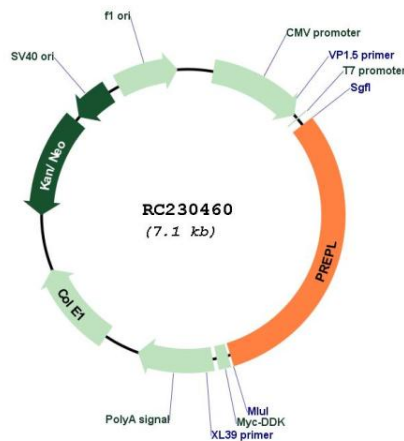
**ORF Size:** 2181 bp

**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_001171606.1, NP_001165077.1</u>
<b>RefSeq Size:</b>	6449 bp
<b>RefSeq ORF:</b>	2184 bp
<b>Locus ID:</b>	9581
<b>UniProt ID:</b>	<u>Q4J6C6</u>
<b>Cytogenetics:</b>	2p21
<b>Protein Families:</b>	Druggable Genome, Protease
<b>MW:</b>	83.9 kDa
<b>Gene Summary:</b>	The protein encoded by this gene belongs to the prolyl oligopeptidase subfamily of serine peptidases. Mutations in this gene have been associated with hypotonia-cystinuria syndrome, also known as the 2p21 deletion syndrome. Several alternatively spliced transcript variants encoding either the same or different isoforms have been described for this gene.[provided by RefSeq, Jan 2010]

**Product images:**



Circular map for RC230460