

## Product datasheet for **RC213731**

### PREPL (NM\_006036) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PREPL (NM_006036) 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:

>RC213731 representing NM\_006036  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGCAGAAGACCAAATTATTCTCCAAGCTTTGAAGTATAGTATTCCTCACCTTGAAAAATGCATGC  
 AGAAACAGCATTGAATCACTATAAATTGCTGATCATTGTTACAATAGAATAAAAATTGAAAAAATCA  
 CCTAACCAAGTGTCTTCAGAATAAACCCCAAGATATCAGAGTTAGCAAGAAACATCCCAAGTCGGAGCTTC  
 TCATGTAAGGATCTTCAGCCTGTTAAACAAGAAAAACGAAAAACCCCTCCAGAAAACATGGATGCATTTG  
 AAAAAAGTGAACAATAATTAGAAACACAGCCACAAGAAGAATAAGAAATCATCAATGTGGAAGTTAAACA  
 TGGTGGTTTTGTTATTACCAAGAAGTTGTTGCTTGGTTCGTTCCAAAGATGAAGAAGCAGACAATGAT  
 AATTATGAAGTTTTATTCAATTTGGAGGAACCTAAGTTAGACCAGCCCTTCATTGATTGTATCAGAGTTG  
 CTCAGATGAAAAATATGTGGCTGCCAAGATAAGAAGTGAAGATTCTGAAGCATCTACCTGTGTAATTAT  
 AAAGCTCAGCGATCAGCCCGTAATGGAAGCTTCTTTCCCGAATGTGTCCAGTTTTGAATGGGTAAGGAC  
 GAGGAAGATGAAGATGTTTTATTCTACACCTCCAGAGGAACCTTCGCTGTCATGACGTATATCGAGCCA  
 CTTTTGGTGATAACAAACGTAATGAACGCTTTTACACAGAAAAAGACCCAAAGCTACTTTGTTTTCTTTA  
 TCTTACAAAAGACAGTCGTTTCCCTACCATAAATATTATGAACAAGACTACTTCTGAAGTGTGGTTGATA  
 GATGGCCTGAGCCCTGGGACCCACCAGTACTTATCCAGAAGCGAATACATGGGGTCCCTTACTATGTTG  
 AACACAGAGATGATGAATTATACATTCTCACTAATGTTGGAGAACCTACAGAATTAAGCTAATGAGAAC  
 AGCGGCTGATACCCCTGCAATTATGAATTGGGATTTATTTTTACAATGAAGAGAAATACAAAAGTGATA  
 GACTTGGACATGTTAAGGATCACTGTGTTCTATTTCTGAAGCACAGCAATCTCCTTTATGTTAATGTGA  
 TTGGTCTGGCTGATGATTCAGTTCGGTCTCTAAAGCTCCCTCCTTGGGCCTGTGGATTATAAATGATA  
 AAATTCTGACCCAAAGAAGTCCCTTTCAACTTTGCTCTCCAATACGTCCCCAAAATATTACACATAC  
 AAGTTTGAGAAGGCAAACCTGTTTGAGGAACTGGGCATGAAGACCCAATCACAAGACTAGTCGGGTTT  
 TACGTCTAGAAGCCAAAAGCAAGGATGGAAAATTAGTGCCAATGACTGTTTTCCACAAAACCTGACTCTGA  
 GGACTTGAGAAGAACTCTCTTGGTACATGTATATGGAGCTTATGGAATGGATTTGAAAATGAATTTT  
 AGGCCTGAGAGGCGGCTCCTGGTGGATGATGGATGGATATTAGCATACTGCCATGTTGAGGTGGTGGT  
 AGTTAGGCCTCCAGTGGCAGCTGATGGCCGCTAACTAAAAACTCAATGGCCTTGCTGATTTAGAGGC  
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 GGAGGGTGCTTGCAGGAGCATTGTGTAATTCTAATCCAGAGCTGGTGAAGCGGTGACTTTGGAGGCAC  
 CTTTCTGGATGTTCTCAACACCATGATGGACACTACACTTCTCTGACATTAGAAGAATTAGAAGAATG  
 GGGAAATCCTTCTGATGAAAAACACAAGAAGTACATAAAAACGTTACTGTCCCTATCAAAATATTA  
 CCTCAGCATTATCCTTCAATTACATAACGGCATATGAAAACGATGAACGGGTACCTCTGAAAGGAATTG  
 TAAGTTACTGAGAACTCAAGGAAGCCATCGCGGAGCATGCTAAGGACACAGGTGAAGGCTATCAGAC  
 CCCTAATATTATCTAGATATTCAGCCTGGAGGCAATCATGTAATTGAGGATTCTCACAAAAAGATTACA  
 GCCAAATTAATTCCTGTACGAGGAACCTGGACTTGACAGCACCAGTGTTCGAGGATCTTAAGAAAT  
 ACCTGAAATTC

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213731 representing NM\_006036  
 Red=Cloning site Green=Tags(s)

MQQKTKLFLQALKYSIPHLGKCMQKQHLNHYNFADHCYNRIKLLKYYHLTKCLQNKPKISELARNIPSRSF  
 SCKDLQPVKQENKPLPENMDAFEKVRTKLETQPQEEYEIINVEVKHGGFVYYQEGCCLVRSKDEEADND  
 NYEVLFNLEELKLDQPFIDCIRVAPDEKYVAAKIRTEDSEASTCVIIKLSQPVMEASFPNVSSFEWVKD  
 EEDEDVLFYTFQRNLRCHDVYRATFGDNKRNERFYTEKDPYFVFLYLTKDSRFLTINIMNKTTSEWLI  
 DGLSPWDPVLIQKRIHGVLYYVEHRDDELYILTNVGEPTFKLMRTAADTPAIMNWDLFFTMKRNTKVI  
 DLDMFKDHCVLFLKHSNLLYVNVIGLADDSVRSCLKPPWACGFIMDTNSDPKNCPPQLCSPIRPPKYTTY  
 KFAEGKLFEEFGHEDPITKTSRVLRLKAKSKDGKLVPMTVFHKTDSEDLQKKPLLHVYGYGMDLKMNF  
 RPERRVLVDDGWILAYCHVRGGGELGLQWADGRLTKKLNGLADLEACIKTLHGQGFSSQSLTTLTAFSA  
 GGVLAGALCNSNPVLRAVTLAPFLDVLNTMMDTTLPLTLEEEWGNPSSDEKHKNYIKRYCPYQNIK  
 PQHYPSIHITAYENDERVPLKGIYSYTEKLKEAIAEHAKDTGEGYQTPNIILDIQPGGNHVEDSHKKIT  
 AQIKFLYEELGLDSTSVFEDLKKYLKF

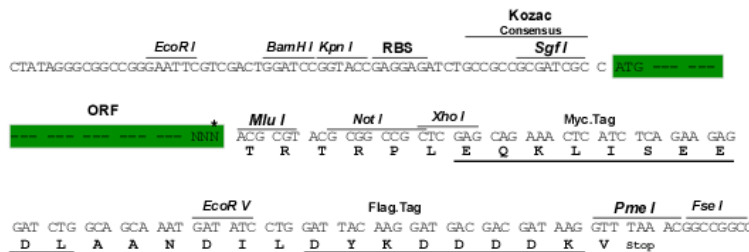
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_006036

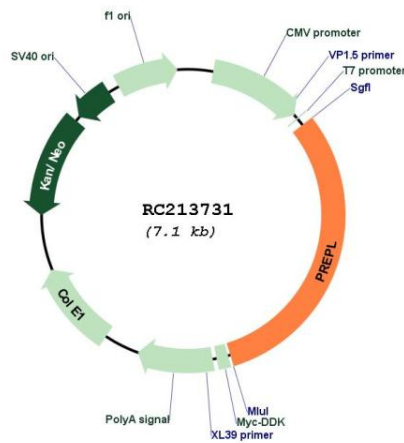
ORF Size: 2181 bp

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](#)

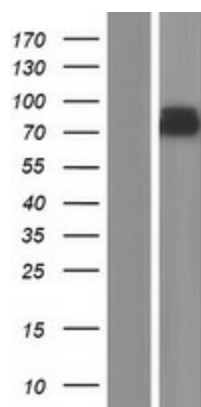
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

- 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\\_006036.4](#), [NP\\_006027.2](#)
- RefSeq Size:** 6272 bp
- RefSeq ORF:** 2184 bp
- Locus ID:** 9581
- UniProt ID:** [Q4J6C6](#)
- Cytogenetics:** 2p21
- Protein Families:** Druggable Genome, Protease
- MW:** 83.7 kDa
- Gene Summary:** 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 RC213731



Western blot validation of overexpression lysate (Cat# [LY416909]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213731 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).