

## Product datasheet for **RG230459**

### PREPL (NM\_001171603) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PREPL (NM_001171603) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PREPL
Synonyms:	CMS22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG230459 representing NM\_001171603  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCAGCAGAAGACCAAATTATTCTCCAAGCTTTGAAGTATAGTATTCCTCACCTTGAAAAATGCATGC  
AGAAACAGCATTGAATCACTATAACTTCGCTGATCATTGTTACAATAGAATAAAATTGAAAAAATATCA  
CCTAACCAAGTGTCTTCAGAATAAACCCAAGATATCAGAGTTAGCAAGAAACATCCCAAGTCGGAGCTTC  
TCATGTAAGGATCTTCAGCCTGTTAAACAAGAAAAACGAAAAACCCCTCCAGAAAACATGGATGCATTTG  
AAAAAGTGAACAACAAATTAGAAACACAGCCACAAGAAGAATATGAAATCATCAATGTGGAAGTTAAACA  
TGGTGGTTTTGTTATTACCAAGAAGTTGTTGCTTGGTTCGTTCCAAAGATGAAGAAGCAGACAATGAT  
AATTATGAAGTTTTATTCAATTTGGAGGAACCTAAGTTAGACCAGCCCTTCATTGATTGTATCAGAGTTG  
CTCCAGATGAAAAATATGTGGCTGCCAAGATAAGAAGTGAAGATTCTGAAGCATCTACCTGTGTAATTAT  
AAAGCTCAGCGATCAGCCCGTAATGGAAGCTTCTTTCCCGAATGTGTCCAGTTTTGAATGGGTAAGGAC  
GAGGAAGATGAAGATGTTTTATTCTACACCTCCAGAGGAACCTTCGCTGTCATGACGTATATCGAGCCA  
CTTTTGGTGATAACAAACGTAATGAACGCTTTTACACAGAAAAAGACCCAAAGCTACTTTGTTTTCTTTA  
TCTTACAAAAGACAGTCGTTTCTCACCATAAATATTATGAACAAGACTACTTCTGAAGTGTGGTTGATA  
GATGGCCTGAGCCCTTGGGACCCACCAGTACTTATCCAGAAGCGAATACATGGGGTCTTTACTATGTTG  
AACACAGAGATGATGAATTATACATTCTCACTAATGTTGGAGAACCTACAGAATTAAGCTAATGAGAAC  
AGCGGCTGATACCCCTGCAATTATGAATTGGGATTTATTTTTACAATGAAGAGAAATACAAAAGTGATA  
GACTTGGACATGTTAAGGATCACTGTGTTCTATTTCTGAAGCACAGCAATCTCCTTTATGTTAATGTGA  
TTGGTCTGGCTGATGATTCAGTTCGGTCTCTAAAGCTCCCTCTTGGGCCTGTGGATTCAATAGGATA  
AAATTCTGACCCAAAGAAGTCCCTTTCAACTTTGCTCTCCAATACGTCCCCAAAATATTACACATAC  
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TACGTCTAGAAGCCAAAAGCAAGGATGGAAAATTAGTGCCAATGACTGTTTTCCACAAAACCTGACTCTGA  
GGACTTGAGAAGAAACCTCTTGGTACATGTATATGGAGCTTATGGAATGGATTTGAAAATGAATTT  
AGGCTGAGAGGCGGTCTTGGTGGATGATGGATGGATATTAGCATACTGCCATGTTGAGGTGGTGGT  
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TTGCATTAAGACGCTTATGGCCAAGGCTTTTCTCAGCCAAGTCTAACACCCTGACTGCTTTCAGTGCT  
GGAGGGTGCTTGCAGGAGCATTGTGTAATTCTAATCCAGAGCTGGTGAAGCGGTGACTTTGGAGGCAC  
CTTTCTGGATGTTCTCAACACCATGATGGACACTACACTTCTCTGACATTAGAAGAATTAGAAGAATG  
GGGAATCCTTCTGATGAAAAACACAAGAAGTACATAAAAACGTTACTGTCCCTATCAAAATATTA  
CCTCAGCATTATCCTTCAATTACATAACGGCATATGAAAACGATGAACGGGTACCTCTGAAAGGAATTG  
TAAGTTACTGAGAACTCAAGGAAGCCATCGCGGAGCATGCTAAGGACACAGGTGAAGGCTATCAGAC  
CCCTAATATTATCTAGATATTCAGCCTGGAGGCAATCATGTAATTGAGGATTCTCACAAAAAGATTACA  
GCCAAATTAATTCCTGTACGAGGAACCTGGACTTGACAGCACCAGTGTTCGAGGATCTTAAGAAAT  
ACCTGAAATTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

Protein Sequence: >RG230459 representing NM\_001171603  
 Red=Cloning site Green=Tags(s)

MQQKTKLFLQALKYSIPHLGKCMQKQHLNHYNFADHCYNRIKPKKYHLTKCLQNKPKISELARNIPSRSF  
 SCKDLQPVKQENKPLPENMDAFEKVRKLETQPQEEYEIINVEVKHGGFVYVYQEGCCLVRSKDEEADND  
 NYEVLFNLEELKLDQPFIDCIRVAPDEKYVAAKIRTEDSEASTCVIIKLSQPVMEASFPNVSSFEWVKD  
 EEDEDVLFYTFQRNLRCHDVYRATFGDNKRNERFYTEKDPYFVFLYLT KD SRFL TINIMNKTTSEWLI  
 DGLSPWDPPVLIQKRIHGVLYYVEHRDDELYILTNVGEPTFKLMRTAADTPAIMNWDLFFTKRNTKVI  
 DLDMFKDHCVLFLKHSNLLYVNVIGLADDSVRSKLPWACGFIMDTNSDPKNCPPFQLCSPIRPPKYTTY  
 KFAEGKLFEEETGHEDPITKTSRVLREAKSKDGKLVPMTVFHKTDSEDLQKKPLLHVYGYGMDLKMNF  
 RPERRVLVDDGWILAYCHVRGGGELGLQWHADGRLTKKLNGLADLEACIKTLHGQGFSSQPSLTTLTAFSA  
 GGVLAGALCNSNPFLVRAVTLAPFLDVLNTMMDTTLPLTLEEEWGNPSSDEKHKNYIKRYCPYQNIK  
 PQHYPSIHITAYENDERVPLKGI VSYTEKLKEAIAEHAKDTGEGYQTPNIILDIQPGGNHVIEDSHKKIT  
 AQIKFLYEELGLDSTSVFEDLKKYLK F

TRTRPLE - GFP Tag - V

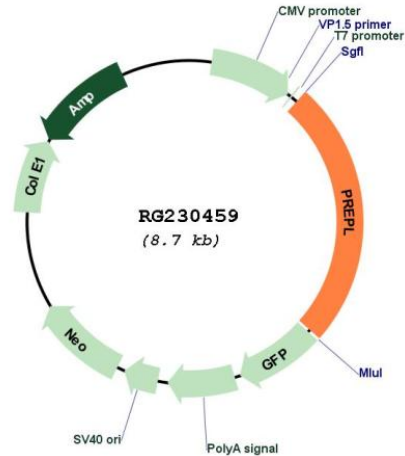
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_001171603

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\\_001171603.1](#), [NP\\_001165074.1](#)

RefSeq Size: 6318 bp

RefSeq ORF: 2184 bp

Locus ID: 9581

UniProt ID:	<a href="#">Q4J6C6</a>
Cytogenetics:	2p21
Protein Families:	Druggable Genome, Protease
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]