

## Product datasheet for **RG230379**

### PREPL (NM\_001171617) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PREPL (NM_001171617) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG230379 representing NM\_001171617  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGATGCATTTGAAAAAGTGAGAACAAAATTAGAAACACAGCCACAAGAAGAATATGAAATCATCAATG  
 TGGAAAGTTAAACATGGTGGTTTTGTTTATTACCAAGAAGTTGTTGCTTGGTTTCGTTCCAAAGATGAAGA  
 AGCAGACAATGATAATTATGAAGTTTTATTCAATTTGGAGGAACCTAAGTTAGACCAGCCCTTCATTGAT  
 TGTATCAGAGTTGCTCCAGATGAAAAATATGTGGCTGCCAAGATAAGAAGTGAAGATTCTGAAGCATCTA  
 CCTGTGTAATTATAAAGCTCAGCGATCAGCCCGTAATGGAAGCTTCTTTCCCGAATGTGTCCAGTTTTGA  
 ATGGGTAAGGACGAGGAAGATGAAGATGTTTTATTCTACACCTCCAGAGGAACCTTCGCTGTCATGAC  
 GTATATCGAGCCACTTTGGTGATAACAAACGTAATGAACGCTTTTACACAGAAAAAGACCCAAGCTACT  
 TTGTTTTCTTTATCTTACAAAAGACAGTCGTTTCTCACCATAAATATTATGAACAAGACTACTTCTGA  
 AGTGTGGTTGATAGATGGCCTGAGCCCTGGGACCCACCAGTACTTATCCAGAAGCGAATACATGGGGTC  
 CTTTACTATGTTGAACACAGAGATGATGAATTATACATTCCTCACTAATGTTGGAGAACCTACAGAATTTA  
 AGCTAATGAGAACAGCGCTGATACCCCTGCAATTATGAATTGGGATTTATTTTTACAATGAAGAGAAA  
 TACAAAAGTGATAGACTTGGACATGTTAAGGATCACTGTGTTCTATTTCTGAAGCACAGCAATCTCCTT  
 TATGTTAATGTGATTGGTCTGGCTGATGATTCAGTTTCGGTCTCTAAAGCTCCCTCCTTGGGCCTGTGGAT  
 TCATAATGGATACAAATCTGACCCAAAGAAGTCCCTTTCACTTTGCTCTCCAATACGTCCCCAAA  
 ATATTACACATACAAGTTTGCAGAAGGCAAACTGTTTGGAGAACTGGGCATGAAGACCAATCACAAAG  
 ACTAGTCGCGTTTTACGCTAGAAGCCAAAAGCAAGGATGGAAAATTAGTCCAATGACTGTTTTCCACA  
 AAACGACTCTGAGGACTTGCAGAAGAACTCTCTTGGTACATGTATATGGAGCTTATGGAATGGATT  
 GAAAATGAATTTTACGGCCTGAGAGGCGGTCTGGTGGATGATGGATGGATATTAGCATACTGCCATGTT  
 CGAGGTGGTGGTGAAGTTAGGCTCCAGTGGCACGCTGATGGCCGCTAACTAAAAAACTCAATGGCCTTG  
 CTGATTTAGAGGCTTGCAATTAAGACGCTTCATGGCCAAGGCTTTTCTCAGCCAAGTCTAACAAACCTGAC  
 TGCTTTCAGTGTGGAGGGTGTGTCAGGAGCATTGTGTAATTTAATCCAGAGCTGGTGAAGCGGTG  
 ACTTTGGAGGCACCTTTCTGGATGTTCTCAACACCATGATGGACTACACTTCTCTGACATTAGAAG  
 AATTAGAAGATGGGGAATCCTTCATCTGATGAAAAACACAAGAAGTACATAAAACGTTACTGTCCCTA  
 TCAAAATATTAACCTCAGCATTATCCTTCAATTCACATAACGGCATATGAAAACGATGAACGGGTACCT  
 CTGAAAGGAATTGTAAGTTATACTGAGAACTCAAGGAAGCCATCGCGGAGCATGCTAAGGACACAGGTG  
 AAGGCTATCAGACCCCTAATATTATTCTAGATATTCAGCCTGGAGGCAATCATGTAATTGAGGATCTCA  
 CAAAAAGATTACAGCCAAATTAATTCCTGTACGAGGAAGTGGACTTGACAGCACCAGTGTTCGAG  
 GATCTTAAGAAATACCTGAAATTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG230379 representing NM\_001171617  
 Red=Cloning site Green=Tags(s)

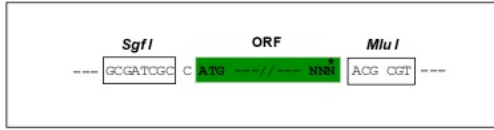
MDAFEKVRTKLETQPQEEYEIINVEVKHGGFVYYQEGCCLVRSKDEEADNDNYEVLNLEELKLDQPFID  
 CIRVAPDEKYVAAKIRTEDSEASTCVIIKLSQPVMEASFNVSSFVWVWDEDEDVLFYTFQRNLRCHD  
 VYRATFGDNKRNERFYTEKDPYFVFLYLTKDSRFLTINIMNKTSEVWLDGLSPWDPPVLIQKRIHGV  
 LYYVEHRDDELYILTNVGEPTFKLMRTAADTPAIMNWDLFFTMKRNTKVIDLDMFKDHCVLFLKHSNLL  
 YNVNIGLADDSVRSCLKPPWACGFIMDTNSDPKNCPFLCSPIRPPKYTYKFAEGKLFEEETGHEDPITK  
 TSRVLRLEAKSKDGKLVPMTVFHKTDSEDLQKKPLLHVHYGAYGMDLKMNFRPERRVLVDDGWILAYCHV  
 RGGGELGLQWHADGRLTKKLNGLADLEACIKTLHGQGSQPSLTTLTAFSAGGVLGALCNSNPELVRAV  
 TLEAPFLDVLNTMMDTLLPLTLEEEWGNPSSDEKHKNYIKRYCPYQNIKPQHYPYSIHITAYENDERVP  
 LKGIYSYTEKLKEAIAEHAHAKDTGEGYQTPNIILDIQPGGNHVIEDSHKKITAQIKFLYEELGLDSTSVFE  
 DLKKYLKF

TRTRPLE – GFP Tag – V

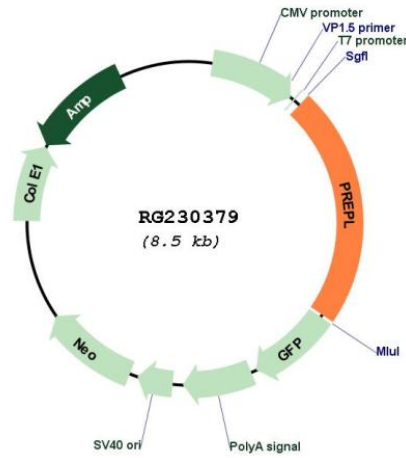
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_001171617

ORF Size: 1914 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_001171617.1</a> , <a href="#">NP_001165088.1</a>
<b>RefSeq Size:</b>	6064 bp
<b>RefSeq ORF:</b>	1917 bp
<b>Locus ID:</b>	9581
<b>UniProt ID:</b>	<a href="#">Q4J6C6</a>
<b>Cytogenetics:</b>	2p21
<b>Protein Families:</b>	Druggable Genome, Protease
<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]