

Product datasheet for **RG213731**

PREPL (NM_006036) Human Tagged ORF Clone

Product data:

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

>RG213731 representing NM_006036
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGCAGAAGACCAAATTATTCTCCAAGCTTTGAAGTATAGTATTCCTCACCTTGAAAAATGCATGC
AGAAACAGCATTGAATCACTATAACTTCGCTGATCATTGTTACAATAGAATAAAAATTGAAAAAATATCA
CCTAACCAAGTGTCTTCAGAATAAACCCAAGATATCAGAGTTAGCAAGAAACATCCCAAGTCGGAGCTTC
TCATGTAAGGATCTTCAGCCTGTTAAACAAGAAAAACGAAAAACCCCTCCAGAAAACATGGATGCATTTG
AAAAAGTGAACAACAAATTAGAAACACAGCCACAAGAAGAATATGAAATCATCAATGTGGAAGTTAAACA
TGGTGGTTTTGTTTATTACCAAGAAGGTTGTTGCTTGGTTCGTTCCAAAGATGAAGAAGCAGACAATGAT
AATTATGAAGTTTTATTCAATTTGGAGGAACCTAAGTTAGACCAGCCCTTCATTGATTGTATCAGAGTTG
CTCCAGATGAAAAATATGTGGCTGCCAAGATAAGAAGTGAAGATTCTGAAGCATCTACCTGTGTAATTAT
AAAGCTCAGCGATCAGCCGTAATGGAAGCTTCTTTCCGAATGTGTCCAGTTTTGAATGGGTAAGGAC
GAGGAAGATGAAGATGTTTTATTCTACACCTCCAGAGGAACCTTCGCTGTCATGACGTATATCGAGCCA
CTTTTGGTGATAACAAACGTAATGAACGCTTTTACACAGAAAAAGACCCAAAGCTACTTTGTTTTCTTTA
TCTTACAAAAGACAGTCGTTTCTCACCATAAATATTATGAACAAGACTACTTCTGAAGTGTGGTTGATA
GATGGCCTGAGCCCTGGGACCCACCAGTACTTATCCAGAAGCGAATACATGGGGTCTTTACTATGTTG
AACACAGAGATGATGAATTATACATTCTCACTAATGTTGGAGAACCTACAGAATTAAGCTAATGAGAAC
AGCGGCTGATACCCCTGCAATTATGAATTGGGATTTATTTTTACAATGAAGAGAAATACAAAAGTGATA
GACTTGGACATGTTAAGGATCACTGTGTTCTATTTCTGAAGCACAGCAATCTCCTTTATGTTAATGTGA
TTGGTCTGGCTGATGATTCAGTTCGGTCTCTAAAGCTCCCTCTGGGCCTGTGGATTCAATAAGGATA
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GGACTTGCAAGAAACCTCTCTTGGTACATGTATATGGAGCTTATGGAATGGATTTGAAAATGAATTTT
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CTTTCTTGGATGTTCTAACACCATGATGGACACTACACTTCTCTGACATTAGAAGAATTAGAAGAATG
GGGAATCCTTCTGATGAAAAACACAAGAAGTACATAAAAACGTTACTGTCCCTATCAAAATATTA
CCTCAGCATTATCCTTCAATTACATAACGGCATATGAAAACGATGAACGGGTACCTCTGAAAGGAATTG
TAAGTTACTGAGAACTCAAGGAAGCCATCGCGGAGCATGCTAAGGACACAGGTGAAGGCTATCAGAC
CCCTAATATTATCTAGATATTCAGCCTGGAGGCAATCATGTAATTGAGGATTCTCACAAAAAGATTACA
GCCAAATTAATTCCTGTACGAGGAACCTGGACTTGACAGCACCAGTGTTCGAGGATCTTAAGAAAT
ACCTGAAATTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213731 representing NM_006036
 Red=Cloning site Green=Tags(s)

MQQKTKLFLQALKYSIPHLGKCMQKQHLNHYNFADHCYNRIKLLKYYHLTKCLQNKPKISELARNIPSRSF
 SCKDLQPVKQENKPLPENMDAFEKVRKLETQPQEEYEIINVEVKHGGFVYVYQEGCCLVRSKDEEADND
 NYEVLFNLEELKLDQPFIDCIRVAPDEKYVAAKIRTEDSEASTCVIIKLSQPVMEASFPNVSSFEWVKD
 EEDEDVLFYTFQRNLRCHDVYRATFGDNKRNERFYTEKDPYFVFLYLT KD SRFLTINIMNKTTSEWLI
 DGLSPWDPPVLIQKRIHGVLYYVEHRDDELYILTNVGEPTFKLMRTAADTPAIMNWDLFFTKRNTKVI
 DLDMFKDHCVLFLKHSNLLYVNVIGLADDSVRSCLKLPPWACGFIMDTNSDPKNCPPQLCSPIRPPKYTTY
 KFAEGKLFEEETGHEDPITKTSRVLREAKSKDGKLVPMTVFHKT DSEDLQKKPLLHVY GAYGMDLKMNF
 RPERRVLVDDGWILAYCHVRGGGELGLQWHADGRLTKLNLGLADLEACIKTLHGQGF SQPSLTTLTAFSA
 GGVLAGALCNSNP ELVRAVTL EAPFLDVLNTMMDTTLPLTLEEEWGNPSSDEKHKNYIKRYCPYQNIK
 PQHYPSIHITAYENDERVPLKGI VSYTEKLKEAIAEHAKDTGEGYQTPNIILDIQPGGNHVIEDSHKKIT
 AQIKFLYEELGLDSTSVFEDLKKYLKF

TRTRPLE - GFP Tag - V

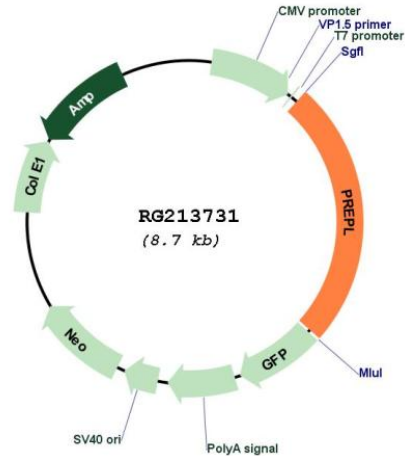
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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

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]