

Product datasheet for **RG222870**

PREPL (NM_001042385) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PREPL (NM_001042385) 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:

>RG222870 representing NM_001042385
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGCAGAAGACCAAATTATTTCTCCAAGCTTTGAAGTATAGTATTCCTCACCTTGAAAAATGCATGC
AGAAACAGCATTGAATCACTATAAATTGCTGATCATTGTTACAATAGAATAAAAATGAAAAAATATCA
CCTAACCAAGTGTCTTCAGAATAAACCCCAAGATATCAGAGTTAGCAAGAAACATCCCAAGTCGGAGCTTC
TCATGTAAGGATCTTCAGCCTGTTAAACAAGAAAAAGAAAAACCCCTCCAGAAAACATGGATGCATTTG
AAAAAGTGAACAACAAATTAGAAACACAGCCACAAGAAGAATAAGAAATCATCAATGTGGAAGTTAAACA
TGGTGGTTTTGTTTATTACCAAGAAGTTGTTGCTTGGTTCGTTCCAAAGATGAAGAAGCAGACAATGAT
AATTATGAAGTTTTATCAATTTGGAGGAACCTAAGTTAGACCAGCCCTTCATTGATTGTATCAGAGTTG
CTCCAGATGAAAAATATGTGGCTGCCAAGATAAGAAGTGAAGATTCTGAAGCATCTACCTGTGTAATTAT
AAAGCTCAGCGATCAGCCGTAATGGAAGCTTCTTTCCGAATGTGTCCAGTTTTGAATGGGTAAGGAC
GAGGAAGATGAAGATGTTTTATTCTACACCTCCAGAGGAACCTTCGCTGTCATGACGTATATCGAGCCA
CTTTTGGTGATAACAAACGTAATGAACGCTTTTACACAGAAAAAGACCCAAAGCTACTTTGTTTTCTTTA
TCTTACAAAAGACAGTCGTTTCTCACCATAAATATTATGAACAAGACTACTTCTGAAGTGTGGTTGATA
GATGGCCTGAGCCCTTGGGACCCACCAGTACTTATCCAGAAGCGAATACATGGGGTCTTTACTATGTTG
AACACAGAGATGATGAATTATACATTCTCACTAATGTTGGAGAACCTACAGAATTAAGCTCCCTCCTTG
GGCCTGTGGATTACATAATGGATACAAATTTGACCCAAAGAACTGCCCTTTCACTTTGCTCTCCAATA
CGTCCCCAAAAATATTACACATACAAGTTTGCAGAAGGCAAACTGTTTGAAGAACTGGGCATGAAGACC
CAATCACAAAGACTAGTCGCGTTTTACGTCTAGAAGCCAAAAGCAAGGATGGAAAAATTAGTCCAATGAC
TGTTTTCCACAAAACGACTCTGAGGACTTGCAGAAGAAACCTCTTGGTACATGTATATGGAGCTTAT
GGAATGGATTTGAAAATGAATTTAGGCCTGAGAGGCGGGTCTGGTGGATGATGGATGGATATTAGCAT
ACTGCCATGTTGAGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
CAATGGCCTTGTGATTTAGAGGCTTGCATTAAGACGCTTCATGGCCAAGGCTTTTCTCAGCCAAGTCTA
ACAACCCTGACTGCTTTCAGTGTGGAGGGTGTTCAGGAGCATTGTGTAATTCTAATCCAGAGCTGG
TGAGAGCGGTGACTTTGGAGGCACCTTTCTGGATGTTCTCAACACCATGATGGACACTACACTTCTCT
GACATTAGAAGAATTAGAAGAATGGGGGAATCCTTCATCTGATGAAAAACACAAGAACTACATAAAACGT
TACTGTCCCTATCAAAATATTAACCTCAGCATTATCCTTCAATTCACATAACGGCATATGAAAACGATG
AACGGGTACCTCTGAAAGGAATTGTAAGTTATACTGAGAACTCAAGGAAGCCATCGCGGAGCATGCTAA
GGACACAGGTGAAGGCTATCAGACCCCTAATATTATTCTAGATATTCAGCCTGGAGGCAATCATGTAATT
GAGGATTTCCAAAAAGATTACAGCCCAATTAATTCCTGTACGAGGAACTTGGACTTGACAGCACCA
GTGTTTTGAGGATCTTAAGAAATACCTGAAATTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222870 representing NM_001042385
 Red=Cloning site Green=Tags(s)

MQQKTKLFLQALKYSIPHLGKCMQKQHLNHYNFADHCYNRIKLYHLTKCLQNKPKISELARNIPSRSF
 SCKDLQPVKQENKPLPENMDAFEKVRKLETQPQEEYEIINVEVKHGGFVYVYQEGCCLVRSKDEEADND
 NYEVLFNLEELKLDQPFIDCIRVAPDEKYVAAKIRTEDSEASTCVIIKLSQPVMEASFPNVSSFVWVKD
 EEDEDVLFYTFQRNLRCHDVYRATFGDNKRNERFYTEKDPYFVFLYLTKDSRFLTINIMNKTTSEVWLI
 DGLSPWDPVLIQKRIHGVLYYVEHRDDELYILTNVGEPTFEKLPWACGFIMDTNSDPKNCQFQCSPI
 RPPKYTYKFAEGKLFEEETGHEDPITKTSRVLRLAASKDGLKVPMTVFHKTDSEDLQKKPLLHVHYGAY
 GMDLKMNFRPERRVLVDDGWILAYCHVRGGELGLQWHADGRLTKKLNGLADLEACIKTLHGQGFQPSL
 TTLTAFSAGGVLGALCNSNPELVRAVLEAPFLDVLNTMDDTTLPLTLEEEWGNPSSDEKHKNYIKR
 YCPYQNIKPQHYSIHITAYENDERVPLKGIYSYTEKLKEAIAEHAKDTGEGYQTPNIILDIQPGGNHVI
 EDShKKITAQIKFLYEELGLDSTSVFEDLKKYLKF

TRTRPLE - GFP Tag - V

Restriction Sites:

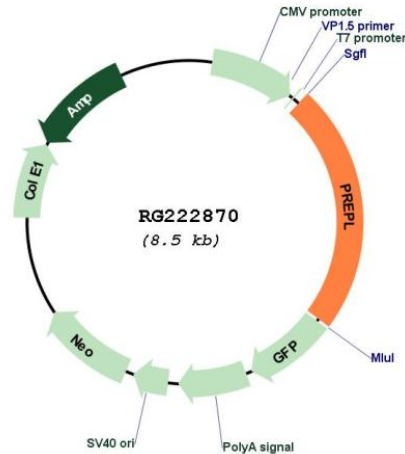
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001042385

ORF Size: 1995 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_001042385.2](#), [NP_001035844.1](#)

RefSeq Size: 4636 bp

RefSeq ORF: 1998 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]