

Product datasheet for **RG204132**

PGLS (NM_012088) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGLS (NM_012088) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PGLS
Synonyms:	6PGL; HEL-S-304
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204132 representing NM_012088 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGCCGGCCCGGGCCTCATCTCGGTGTTCTCGAGTCCAGGAGCTGGGTGCGGCCTAGCGC
AGCTGGTGGCCAGCGCGCAGCATGCTGCCTGGCAGGGGCCGCGCCGTTTCGCGCTCGGCTTGTCGGG
CGGGAGCCTCGTCTCGATGCTAGCCCGGAGCTACCCGCCCGTCGCCCTGCCGGCCAGCTAGCTTA
GCGCGCTGGACGCTGGGCTTCTGCGACGAGCGCCTCGTGCCTTCGATCACGCCAGAGCACGTACGGCC
TCTACCGGACGCATTTCTCTCCAGACTGCCGATCCCAGAAAGCCAGGTGATCACCATTAAACCCCGAGCT
GCCTGTGGAGGAGCGGCTGAGGACTACGCCAAGAAGCTGAGACAGGCATTCCAAGGGGACTCCATCCCG
GTTTTCGACCTGCTGATCCTGGGGTGGGCCCGATGGTCACACCTGCTCACTTCCCAGACCACCCCC
TCCTACAGGAGCGGGAGAAGATTGTGGCTCCCATCAGTACTCCCGAAGCCACCGCCACAGCGTGTGAC
CCTCACGCTACCTGTCTGAATGCAGCACGAACTGTCACTTTGTGGCAACTGGAGAAGGCAAGGCAGCT
GTTCTGAAGCGCATTTTGGAGGACCAGGAGGAAAACCCGCTGCCCGCCGCTGGTCCAGCCCCACACCG
GAAACTGTGCTGTTCTTGACGAGGCGGCCGCCCTCTGACCGTGCCTTCGAGAAGCATTCCAC
TTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204132 representing NM_012088
Red=Cloning site Green=Tags(s)

MAAPAPGLISVFSSSQELGAALQQLVAQRAACCLAGARARFALGLSGGSLVSMMLARELPAAVAPAGPASL
 ARWTLGFCDERLVPFDHAESTYGLYRTHLLSRLPIPESQVITINPELPVEEAAEDYAKKLRQAFQGDSIP
 VFDLLILGVGPDGHTCSLFPDHPDLLQEREKIVAPISDSPKPPPQRVTLTPVLNAARTVIFVATGEGKAA
 VLKRILEDQEENPLPAALVQPHGTGKLCWFLDEAAARLLTVPFEKHSTL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012088

ORF Size: 774 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_012088.2](#), [NP_036220.1](#)

RefSeq Size: 1043 bp

RefSeq ORF: 777 bp

Locus ID: 25796

UniProt ID: [O95336](#)

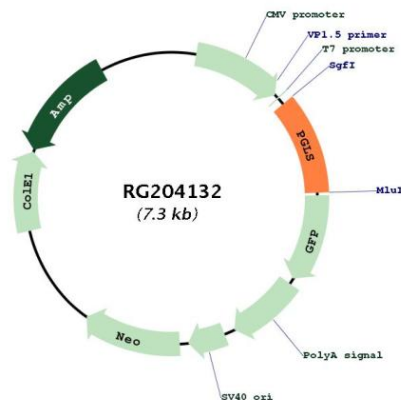
Cytogenetics: 19p13.11

Domains: Glucosamine_iso

Protein Pathways: Metabolic pathways, Pentose phosphate pathway

Gene Summary: Hydrolysis of 6-phosphogluconolactone to 6-phosphogluconate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204132