

## Product datasheet for **RG210220**

### **PGRP1A (PGLYRP3) (NM\_052891) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PGRP1A (PGLYRP3) (NM_052891) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PGRP1A
Synonyms:	PGLYRP1alpha; PGRP-1alpha; PGRPIA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210220 representing NM_052891 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGGGACGCTGCCATGGCTTCTTGCCTTCTTCATTCTGGGTCTCCAGGCTTGGGATACTCCCACCATCGTCTCCCGCAAGGAGTGGGGGCAAGACCGCTCGCCTGCAGGGCCCTGCTGACCCTGCCTGTGGCCTACATCATCAGACCAGCTCCCAGGGATGCAGTGCCAGCAGCAGAGCGTTTGCAGCCAGATGCTGCGGGGGTTGCAGTCCCATTCCGCTACACCATAGGCTGGTGGCAGCTGGCGTACAACCTCCTGGTTGGGATGATGGCAGGGTGTGAAGGTGTTGGCTGGAACATCCAAGCTTGCACACCCAGGGCTACAACAACATTTCCCTGGGCATCGCCTTCTTTGGCAATAAGATAGGCAGCAGTCCCAGCCCTGCTGCCTTATCAGCTGCAGAGGGTCTGATCTCCTATGCCATCCAGAAGGGTCACCTGTCGCCAGGTATATTCAGCCACTTCTTCTGAAAGAAGAGACCTGCCTGGACCTCAACATCCAGTGATGCCAGGAAGGTTTGGCCCAACATCATCAAACGATCTGCTTGGGAAGCCAGAGAGACACTGCCCTAAAATGAACCTCCCAGCCAAATATGTATCATCATCCACACCGCTGGCACAAGCTGCACTGTATCCACAGACTGCCAGACTGTCGTCCGAAACATACAGTCCCTTTCATGGACACACGGAACCTTTGTGACATTGGATATCACTTCTGGTGGCCAGGATGGTGGCGTGTATGAAGGGTTGGATGGCACATCCAAGGCTCTCACACTTATGGATTCAACGATATTGCCCTAGGAATTGCCTTCATCGGCTACTTTGTAGAAAAGCCTCCAATGCTGCAGCGCTGGAGCGGCCAGGACCTGATCCAGTGTGCCGTGGTTGAGGGTACCTGACTCCAACACTACCTGCTGATGGGCCACAGTGACGTGGTCAACATCCTGTCCCCTGGGACGGCTTTGTATAACATCATCAGCACCTGGCCTCATTTCAAGCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210220 representing NM\_052891  
 Red=Cloning site Green=Tags(s)

MGTLPWLLAFFILGLQAWDTPTIVSRKEWGARPLACRALLTLPVAYIITDQLPGMQCQQQSVCSQMLRGL  
 QSHSVYTIWCDVAYNFLVGDDGRVYEGVGNIIQGLHTQGYNNISLGIAFFGNKIGSSPSAALSAEGL  
 ISYAIQKGHLSPRYIQPLLLKEETCLDPQHPVMPKVCNPNIKRSARETHCPKMNLPKAYVIIHTA  
 GTSCTVSTDCQTVVRNIQSFHMDTRNFCDIGYHFLVGQDGGVYEGVGVWHIQGSHTYGFNDIALGIAFIGY  
 FVEKPPNAAALEAAQDLIQCAVVEGYLTPNYLLMGHSDVVNILSPGQALYNIISTWPHFKH

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_052891

**ORF Size:** 1023 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\\_052891.2](#)

**RefSeq Size:** 1173 bp

**RefSeq ORF:** 1026 bp

**Locus ID:** 114771

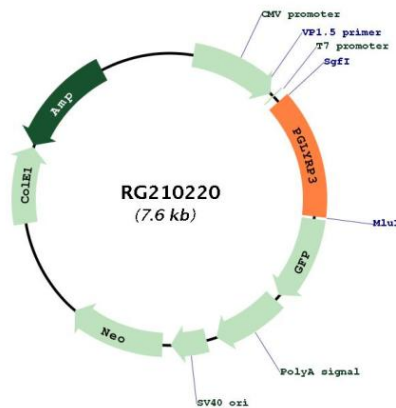
**UniProt ID:** [Q96LB9](#)

**Cytogenetics:** 1q21.3

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a peptidoglycan recognition protein, which belongs to the N-acetylmuramoyl-L-alanine amidase 2 family. These proteins are part of the innate immune system and recognize peptidoglycan, a ubiquitous component of bacterial cell walls. This antimicrobial protein binds to murein peptidoglycans of Gram-positive bacteria. [provided by RefSeq, Oct 2014]

### Product images:



Circular map for RG210220