

Product datasheet for **RG210356**

PON1 (NM_000446) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PON1 (NM_000446) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PON1
Synonyms:	ESA; MVCD5; PON
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210356 representing NM_000446 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCGAAGCTGATTGCGCTCACCTCTTGGGGATGGGACTGGCACTCTTCAGGAACCACAGTCTTCTT
 ACCAAACACGACTTAATGCTCTCCGAGAGGTACAACCCGTAGAACTTCCTAACTGTAATTTAGTTAAAG
 AATCGAACTGGCTCTGAAGACTTGGAGATACTGCCTAATGGACTGGCTTTCATTAGCTCTGGATTAAAG
 TATCCTGGAATAAAGAGCTTCAACCCCAACAGTCTGGAAAAATACTTCTGATGGACCTGAATGAAGAAG
 ATCCAACAGTGTTGGAATTGGGGATCACTGGAAGTAAATTTGATGTATCTTCATTTAACCTCATGGGAT
 TAGCACATTACAGATGAAGATAATGCCATGTACCTCCTGGTGGTGAACCATCCAGATGCCAAGTCCACA
 GTGGAGTTGTTTTAAATTTCAAGAAGAAGAAAAATCGCTTTTGCATCTAAAAACCATCAGACATAAACTTC
 TGCCTAATTTGAATGATATTGTTGCTGTGGGACCTGAGCACTTTTATGGCACAATGATCACTATTTTCT
 TGACCCCTACTTACAATCCTGGGAGATGTATTTGGGTTTAGCGTGGTCTGATGTTGTCTACTATAGTCCA
 AGTGAAGTTCGAGTGGTGGCAGAAGGATTTGATTTTGCTAATGGAATCAACATTTACCCGATGGCAAGT
 ATGTCTATATAGCTGAGTTGCTGGCTCATAAGATTCATGTGTATGAAAAGCATGCTAATTGGACTTTAAC
 TCCATTGAAGTCCCTTGACTTTAATACCCTCGTGGATAACATATCTGTGGATCCTGAGACAGGAGACCTT
 TGGGTTGGATGCCATCCCAATGGCATGAAAATCTTCTTCTATGACTCAGAGAATCCTCTGCATCAGAGG
 TGCTTCGAATCCAGAACATTCTAACAGAAGAACCTAAAGTGACACAGGTTTATGCAGAAAATGGCACAGT
 GTTGCAAGGCAGTACAGTTGCCTCTGTGTACAAAGGGAACCTGCTGATTGGCACAGTGTTCACAAAGCT
 CTTTACTGTGAGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG210356 representing NM_000446
 Red=Cloning site Green=Tags(s)

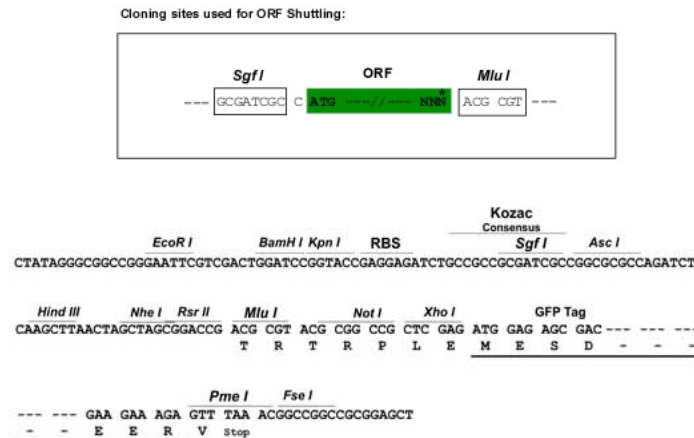
MAKLIALTLLGMGLALFRNHQSSYQTRLNALREVQPVELPNCNLVKGIETGSEDLEILPGLAFISSGLK
 YPGIKSFNPNSPGKILLMDLNEEDPTVLELGITGSKFDVSSFNPHGISTFTDEDNAMYLLVNHDPDAKST
 VELFKFQEEESLLHLKLTIRHKLLPNLNDIVAVGPEHFYGTNDHYFLDPYLQSWEMYLGLAWSYVVYSP
 SEVRVVAEGFDFANGINISPDGKYVYIAELLAHKIHVYEKXANWLTPLKSLDFNTLVNLSVDPETGDL
 WVGCHPNMGKIFFYDSENPPASEVLRIQNILTEEPKVTQVYAENGTVLQGSTVASVYKGLLIGTVFHKA
 LYCEL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_000446

ORF Size: 1065 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_000446.7](#)

RefSeq Size: 2395 bp

RefSeq ORF: 1068 bp

Locus ID: 5444

UniProt ID: [P27169](#)

Cytogenetics: 7q21.3

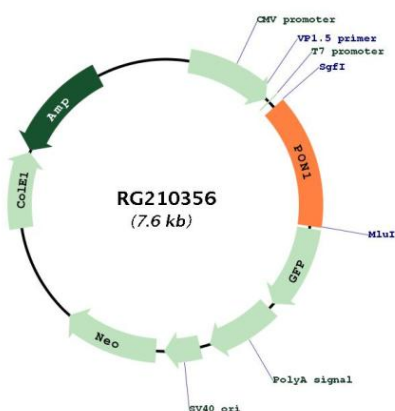
Domains: Arylesterase

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Metabolic pathways

Gene Summary: This gene encodes a member of the paraoxonase family of enzymes and exhibits lactonase and ester hydrolase activity. Following synthesis in the kidney and liver, the enzyme is secreted into the circulation, where it binds to high density lipoprotein (HDL) particles and hydrolyzes thiolactones and xenobiotics, including paraoxon, a metabolite of the insecticide parathion. Polymorphisms in this gene may be associated with coronary artery disease and diabetic retinopathy. The gene is found in a cluster of three related paraoxonase genes on chromosome 7. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RG210356