

Product datasheet for **SC302202**

PON2 (NM_001018161) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PON2 (NM_001018161) Human Untagged Clone
Tag:	Tag Free
Symbol:	PON2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_001018161 edited
 GTAAGTTTCTCACTGGAATAGCGAGTGAGAAATGTGTTTGAAGACTAGGGAAACGAGAAG
 GTATGCGGGCTGCTAGAGGGTTTCGGGTGGGTTGTTTGAAAAAGGAAGTGAAGGAATTCA
 AAGTTTCACATCATGAGCCTAATGTAAGGCGTGTCCGGGCCGTCCCGAAGGTATCTGGGG
 AAATAGTTTGTGAGGACAAAGACCAGGGCCAGGCCAGGGCGGAGCCTCCGCGGCCCG
 ACGCAGGGACTCGGCCTAGGCGGAGGACGGGGCGAGCGCGGCCGGCACCATCGAGCCGG
 GAAGATGGCACC GCCACGGAGCTGTGCCAGGCCGGAGCGAGGCAGCGCGGCCCGGCTC
 CCGCGCCATGGGCGGCTGGTGGCTGTGGGCTTCTGGGGATCGCGCTGGCGCTCCTGGG
 CGAGAGGCTTCTGGCACTCAGAAATCGACTTAAAGCCTCCAGAGAAGTAGAATCTGTAGA
 CCTTCCACACTGCCACCTGATTAAGGAATTGAAGCTGGCTCTGAAGATATTGACATACT
 TCCCAATGGTCTGGCTTTTTTTAGTGTGGGTCTAAAATCCCAGGACTCCACAGCTTTGC
 ACCAGATAAGCCTGGAGGAATACTAATGATGGATCTAAAAGAAGAAAAACCAAGGGCAGG
 GGAATTAAGAATCAGTCGTGGGTTTGTATTGGCCTCATTCAATCCACATGCCATCAGCAC
 TTTCATAGACAACGAATCAAGAATACAGTGGAATTTTTAAATTTGAAGAAGCAGAAAA
 TTCTCTGTTCATCTGAAAACAGTCAAACATGAGCTTCTTCCAAGTGTGAATGACATCAC
 AGCTGTTGGACCCGCACATTTCTATGCCACAAATGACCACTACTTCTCTGATCCTTTCTT
 AAAGTATTTAGAAACATACTTGAACCTTACACTGGGCAAATGTTGTTTACTACAGTCCAAA
 TGAAGTTAAAGTGGTAGCAGAAGGATTTGATTCAGCAAATGGGATCAATATTTACCTGA
 TGATAAGTATATCTATGTTGCTGACATATTGGCTCATGAAATTCATGTTTTGGAAAAACA
 CACTAATATGAATTTAAGTCAAGTGAAGTACTTGAGCTGGATACACTGGTGGATAATTT
 ATCTATTGATCCTTCTCGGGGACATCTGGGTAGGCTGTCATCCTAATGGCCAGAAGCT
 CTTCTGTATGACCCGAACAATCCTCCCTCGTCAGAGGTTCTCCGCATCCAGAACATTCT
 ATCTGAGAAGCCTACAGTGACTACAGTTTATGCCAACAATGGGCTGTTCTCCAAGGAAG
 TTCTGTAGCCTCAGTGTATGATGGGAAGCTGCTCATAGGCACTTTATACCACAGAGCCTT
 GTATTGTAAGTCTAAATTTGACTTTTGGCATGAAAGTGCATAACTTAACAATTAATTT
 TCTATGAATTGCTAATTTCTGAGGGAATTTAACCAGCAACATTGACCCAGAAATGTATGGC
 ATGTGTAGTTAATTTTATCCAGTAAGGAACGGCCCTTTTAGTTCTTAGAGCACTTTTAA
 CAAAAAGGAAAATGAACAGGTTCTTTAAAATGCCAAGCAAGGGACAGAAAAGAAAGCTG
 CTTTGAATAAAGTGAATACATTTGCACAAAGTAAGCCTCACCTTTGCCTTCCAAGTGC
 CAGAACATGGATTCCACTGAAATAGAGTGAATTATTTTCTTAAAATGTGAGTGACCTC
 ACTTCTGGCACTGTGACTACTATGGCTGTTTAGAACTACTGATAACGTATTTTGATGTTT
 TGTAATTACATCTTTGTTTACCATTAAAAAGTTGGAGTTATATTAAGACTAACTAAAAT
 CCCAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001018161

Insert Size: 1900 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001018161.1.

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_001018161.1](#), [NP_001018171.1](#)

RefSeq Size: 1633 bp

RefSeq ORF: 1029 bp

Locus ID: 5445

UniProt ID: [Q15165](#)

Cytogenetics: 7q21.3

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways

Gene Summary:

This gene encodes a member of the paraoxonase gene family, which includes three known members located adjacent to each other on the long arm of chromosome 7. The encoded protein is ubiquitously expressed in human tissues, membrane-bound, and may act as a cellular antioxidant, protecting cells from oxidative stress. Hydrolytic activity against acylhomoserine lactones, important bacterial quorum-sensing mediators, suggests the encoded protein may also play a role in defense responses to pathogenic bacteria. Mutations in this gene may be associated with vascular disease and a number of quantitative phenotypes related to diabetes. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) uses an alternate, in-frame splice site in the coding region, compared to variant 1. It encodes isoform 2, which is shorter than isoform 1.