

## Product datasheet for **SC119958**

### PON2 (NM\_000305) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PON2 (NM_000305) Human Untagged Clone
Tag:	Tag Free
Symbol:	PON2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119958 sequence for NM_000305 edited (data generated by NextGen Sequencing)

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ATGGGGCGGCTGGTGGCTGTGGGCTTGCTGGGGATCGCGCTGGCGCTCCTGGGCGAGAGG
CTTCTGGCACTCAGAAATCGACTTAAAGCCTCCAGAGAAGTAGAATCTGTAGACCTTCCA
CACTGCCACCTGATTAAGGAATTGAAGCTGGCTCTGAAGATATTGACATACTTCCCAAT
GGTCTGGCTTTTTTAGTGTGGGTCTAAAATCCCAGGACTCCACAGCTTTGCACCAGAT
AAGCCTGGAGGAATACTAATGATGGATCTAAAAGAAGAAAAACCAAGGGCACGGGAATTA
AGAATCAGTCGTGGGTTTGATTTGGCCTCATTCAATCCACATGGCATCAGCACTTTCATA
GACAACGATGACACAGTTTATCTCTTTGTTGTAACCACCCAGAATCAAGAATACAGTG
GAAATTTTTAAATTTGAAGAAGCAGAAAATCTCTGTTGCATCTGAAAACAGTCAACAT
GAGCTTCTTCCAAGTGTGAATGACATCACAGCTGTTGGACGGCACATTTCTATGCCACA
AATGACCACTACTTCTCTGATCCTTTCTTAAAGTATTTAGAAAACATACTTGAACCTTACAC
TGGGCAAATGTTGTTTACTACAGTCCAAATGAAGTTAAAGTGGTAGCAGAAGGATTTGAT
TCAGCAAATGGGATCAATATTTACCTGATGATAAGTATATCTATGTTGCTGACATATTG
GCTCATGAAATTCATGTTTTGGAAAAACACACTAATATGAATTTAACTCAGTTGAAGGTA
CTTGAGCTGGATACACTGGTGGATAATTTATCTATTGATCCTTCCCGGGGACATCTGG
GTAGGCTGTCATCCTAATGGCCAGAAGCTCTTCGTGTATGACCCGAACAATCCTCCCTCG
TCAGAGGTTCTCCGCATCCAGAACATTCTATCTGAGAAGCCTACAGTGACTACAGTTTAT
GCCAACAAATGGGCTGTTCTCCAAGGAAGTTCTGTAGCCTCAGTGTATGATGGGAAGCTG
CTCATAGGCACCTTATACCACAGAGCCTTGTATTGTGAACCTCTAA
```

Clone variation with respect to NM\_000305.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000305 unedited  
 GTAATACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGCCGCCACGGAGCTGCT  
 GGCCAGGCCGGAGCGAGGCAGCGCGCCCGGCTCCCAGCCATGGGGCGGCTGGTGGCTGT  
 GGGCTTGTGGGGATCGCGCTGGCGCTCCTGGGCGAGAGGCTTCTGGCACTCAGAAATCG  
 ACTTAAAGCCTCCAGAGAAGTAGAATCTGTAGACCTTCCACACTGCCACCTGATTAAGG  
 AATTGAAGCTGGCTCTGAAGATATTGACATACTCCCAATGGTCTGGCTTTTTTTAGTGT  
 GGGTCTAAAATCCCAGGACTCCACAGCTTTCACCAGATAAGCCTGGAGGAATACTAAT  
 GATGGATCTAAAAGAAGAAAACCAAGGGCACGGGAATTAAGAATCAGTCGTGGGTTTGA  
 TTTGGCCTCATTCAATCCACATGCGCATCAGCACTTTCATAGACAACGATGACACAGTTTA  
 TCTCTTTGTTGTAACCACCCAGAATTCAGAATACAGTGGAAATTTTTAAATTTGAAGA  
 AGCAGAAAATTTCTGTTGCATCTGAAAACAGTCAAACATGAGCTTCTTCCAAGTGTGAA  
 TGACATCACAGCTGTTGGACCGGCACATTTCTATGCCACAAATGACCACTACTTCTCTGA  
 TCCTTTCTTANAGTATTTAGAAACATACTTGAACCTTACTGGCCANATGTTGTTACTA  
 CAGTCCANATGAAGTTAAAGTGGTAGCAGAAGGATTTGATTCAGCANATGGGATCAATAT  
 TTCACCTGGATGATAGTATATCTATGGTCTGACATATAGGCTCATGAAATNCATGGTNT  
 GGAAAAACACACTNATATGAANTTAACTCAGTTGAAAGGTAAGTACTTGAGCTGGATACACTGG  
 NTGGATATTT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_000305 unedited  
 NNCCCCAGCTCTGNATCCGCGGCCGCAATCTAGCATCGAGTTTTTTTTTTTTTTTTTTTGG  
 GGATTTTACCTACTCTTTAATAAATACTCCAATTTTTAATGGTAAACAAAGATGTAAGTA  
 CAAAACATCAAAATACCCTATCAGTAGTTCTAACAGCCATAGTAGTCACAGTGCCAGAA  
 GTGAGGTCACCTCACATTTAAGGAAATAAATCACTCTATTTTCAGTGGAAATCCATGTTT  
 TGGCAGTTGGAAGGCAAAGGTGAGGCTTACTTTGCGCACAATGCATTCACTTTATTCCAA  
 AGCAGATTTCTCTGTCCCTTGCTTGGCATTTCAAACAACCTGCTCATCTCTCTTTTTT  
 TGTTAAAAGCGCTCTAAGAACTAAAAGGCGGTTCCCTTACTGGAATAAAATTAACACAC  
 ATGCCATACATTTCTGGGTCAATGTTGCTGGCCAACATCCCTCAGAACTCACAATCCAT  
 CGAACATTAATTGCTAAGTTATTGCACTTTTCTGCCAAAAGCACCATTACAGTTCACCA  
 TACAAGGCTCTGCGCTATAACAGCGCCTATGAGCAGCCTCCCATCATACTGAGGCTAC  
 AGAACTTCTTGGGAACAGACTCACTGCCGCACACTGCACTACTGCCCGCTTCCACAC  
 AGAAGTTCGGAGCGGAGAACCTCTGACTCGGGAGGATTGCTTCCGGTTCATACCCAAG  
 AGCCTTTGGCCCTTAAGACGACAGCCTACCCATATTGTCCCCGAGGAAGGATCAATAGA  
 TAACATATCCACCATGGTTTCCCGCCAACATACCTTTACTCGCACTAACCATAACCAGG  
 GCGGCCTTCCACACCATGAACTTCATGTACCACCTCCCGACCCCAATGTTATTCTCC  
 CAT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_000305

**Insert Size:**

2450 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_000305.2</a> , <a href="#">NP_000296.2</a>
<b>RefSeq Size:</b>	1669 bp
<b>RefSeq ORF:</b>	1065 bp
<b>Locus ID:</b>	5445
<b>UniProt ID:</b>	<a href="#">Q15165</a>
<b>Cytogenetics:</b>	7q21.3
<b>Domains:</b>	Arylesterase
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>