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Product datasheet for SC107037

PON3 (NM_000940) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PON3 (NM_000940) Human Untagged Clone
Tag:	Tag Free
Symbol:	PON3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000940, the custom clone sequence may differ by one or more nucleotides

ATGGGGAAGCTCGTGGCGCTGGTCCTGCTGGGGGTCGGCCTGTCCTTAGTCGGGGAGATGTTCCTGGCGT
TTAGAGAAAGGGTGAATGCCTCTCGAGAAGTGGAGCCAGTAGAACCTGAAAACTGCCACCTTATTGAGGA
ACTTGAAAGTGGCTCTGAAGATATTGATATACTTCCTAGTGGGCTGGCTTTTATCTCCAGTGGATTAAAA
TATCCAGGCATGCCAAACTTTGCGCCAGATGAACCAGGAAAAATCTTCTTGATGGATCTGAATGAACAAA
ACCCAAGGGCACAAGCGCTAGAAATCAGTGGTGGATTTGACAAAGAATTATTTAATCCACATGGGATCAG
TATTTTCATCGACAAAGACAATACTGTGTATCTTTATGTTGTGAATCATCCCCACATGAAGTCCACTGTG
GAGATATTTAAATTTGAGGAACAACAACGTTCTCTGGTATACCTGAAAACTATAAAACATGAACTTCTCA
AAAGTGTGAATGACATTGTGGTTCTTGGACCAGAACAGTTCTATGCCACCAGAGACCACTATTTTACCAA
CTCCCTCCTGTCATTTTTTGAGATGATCTTGGATCTTCGCTGGACTTATGTTCTTTTCTACAGCCCAAGG
GAGGTTAAAGTGGTGGCCAAAGGATTTTGTAGTGCCAATGGGATCACAGTCTCAGCAGACCAGAAGTATG
TCTATGTAGCTGATGTAGCAGCTAAGAACATTCACATAATGGAAAAACATGATAACTGGGATTTAACTCA
ACTGAAGGTGATACAGTTGGGCACCTTAGTGGATAACCTGACTGTCGATCCTGCCACAGGAGACATTTTG
GCAGGATGCCATCCTAATCCTATGAAGCTACTGAACTATAACCCTGAGGACCCTCCAGGATCAGAAGTAC
TTCGCATCCAGAATGTTTTGTCTGAGAAGCCCAGGGTGAGCACCGTGTATGCCAACAATGGCTCTGTGCT
TCAGGGCACCTCTGTGGCTTCTGTGTACCATGGGAAAATTCTCATAGGCACCGTATTTCACAAAACTCTG
TACTGTGAGCTCTAG

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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_000940 unedited
GATTTTGTAATACGACTCACTTATAGGGCGGCCGCGAATTCGCACCAGCCCGAGACCTGG
GGAAGCTCGTGGCGCTGGTCCTGCTGGGGGTCGGCCTGTCCTTAGTCGGGGAGATGTTCC
TGGCGTTTAGAGAAAGGGTGAATGCCTCTCGAGAAGTGGAGCCAGTAGAACCTGAAAACT
GCCACCTTATTGAGGAACTTGAAAGTGGCTCTGAAGATATTGATATACTTCCTAGTGGGC
TGGCTTTTATCTCCAGTCTGCAGGTCTGTTGGAGTTTGCTGGAAGTCCACTCCAGACCCT
GTTTGCCTGGGTATCACCAGTGGAGGCTGCAGAACGGCAAATATTGCTGCCTGATTTTTC
TTCTGGAAGCTTCATCCCAGAGGGGCATCCGCCTGTATGAGGGATTAAAATATCCAGGCA
TGCCAAACTTTGCGCCAGATGAACCAGGAAAAATCTTCTTGATGGATCTGAATGAACAAA
ACCCAAGGGCACAAGCACTAGAAATCAGTGGTGGATTTGACAAAGAATTATTTAATCCAC
ATGGGATCAGTATTTTCATCGACAAAGACAATACTGTGTATCTTTATGTTGTGAATCATC
CCCACATGAAGTCCACTGTGGAGATATTTAAATTTGAGGAACAACAACGTTCTCTGGTAT
ACCTGAAAACTATTAAACATGAACTTCTCANAAGTGTGAATGACNATTGTGGNTTCTTGG
ACCAGAACAGTTCTATGCCACCAGAGACCACTATTNTACCAACTCCNTNCTGTCATTNNT
TGAGAATGATCTTGGATCTTCGCTGGACTTTATGTCTTTTTCTACAGCCAGGGAGGNTAN
AAGTGTGGCCAAGGNATTTGTAGTGCCATGGGATCCAGTCTCACAGACANAAGTATGCTT
TGTAGCTGATGTAGCGCTAGAACATTACTATGGAAAACTGATACTGGATTACTCACTGAG
GGGACAGTGGCACTTAGGATACTGCCTGTGATCTGCAANGAAACTTTGCNGAGCNTCTAT
CTGAGTCTGACATACTGA
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Restriction Sites: NotI-NotI

ACCN: NM_000940

Insert Size: 1200 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).

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_000940.1, NP_000931.1

RefSeq Size: 1201 bp

RefSeq ORF: 1065 bp

Locus ID: 5446

UniProt ID: Q15166

Cytogenetics: 7q21.3

Protein Families:	Secreted Protein, Transmembrane
Protein Pathways:	Metabolic pathways
Gene Summary:	This gene is a member of the paraoxonase family and lies in a cluster on chromosome 7 with the other two family members. The encoded protein is secreted into the bloodstream and associates with high-density lipoprotein (HDL). The protein also rapidly hydrolyzes lactones and can inhibit the oxidation of low-density lipoprotein (LDL), a function that is believed to slow the initiation and progression of atherosclerosis. Alternatively spliced variants which encode different protein isoforms have been described; however, only one has been fully characterized. [provided by RefSeq, Jul 2008]