

Specifications:

Gene:	hPON1
Accession:	NP_000437
Insert size:	1081bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

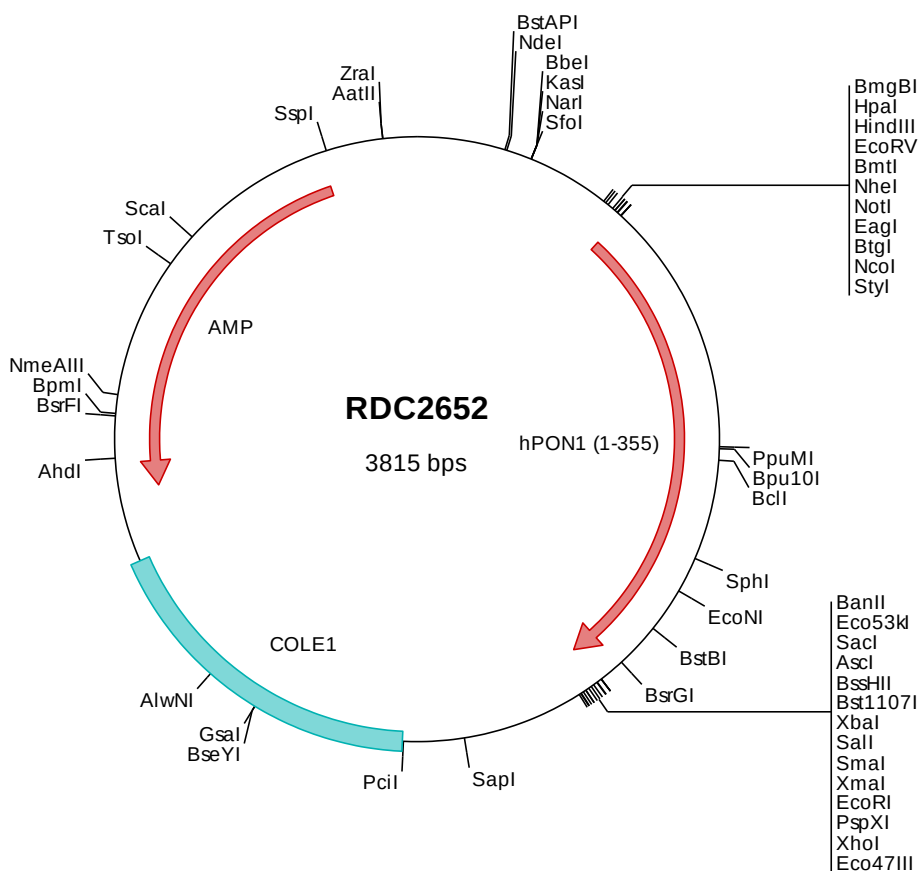
hPON1 cDNA Plasmid

PON1 paraoxonase 1 [*Homo sapiens* (human)]

Also known as: ESA; PON; MVCD5

Summary:

PON1 is a member of the paraoxonase family of enzymes and exhibits lactonase and ester hydrolase activity. Following synthesis in the kidney and liver, PON1 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 PON1 may be associated with coronary artery disease and diabetic retinopathy.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2652 Plasmid DNA Sequence

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1   tcgcgcgcttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccaacc atggcgaaagc tgattgcgct caccctcttg gggatgggac tggcaactctt
501  caggaaaccac cagtctctctt accaaacacg acttaatgct ctccgagagg tacaaccctg agaactctct aactgtaatt tagttaaagg aatcgaaact
601  ggctctgaag acttggagat actgcctaact ggactggctt tcattagctc tggattaaag tatcctggaa taaagagctt caaccccaac agtctctgaa
701  aaatactctct gatggacctg aatgaagaag atccaacagt gttggaattg gggatcactg gaagtaaatt tgatgtatct tcatttaacc ctcatgggat
801  tagcacattc acagatgaag ataatgcat gtacctctct gtgtgtaacc atccagatgc caagtccaca gtggagttgt ttaaatttca agaagaagaa
901  aaatgccttt tgcattctaaa aaccatcaga cataaacttc tgctaattt gaatgatatt gttgctgtgg gacctgagca cttttatggc acaaatgatc
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1401 gacacaggtt tatgcagaaa atggcacagt gttgcaaggc agtacagtgt cctctgtgta caaagggaac ctgctgattg gcacagtgtt tcacaaagct
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1601 ctgttttctg tgtgaaattg ttatccgctc acaattccac acaactacag agccggaagc ataaagtgtg aagcctgggg tgcctaatag gtgagctaac
1701 tcacattaat tgcgtttgctg tcaactgccg ctttccagtc gggaaacctg tcgtgccagc tgcattaatg aatcggccaa cgcgcgggga gaggcggttt
1801 gcgtattggg cgtctctccg ctctctcgtc cactgactcg ctgcgctcgg tcgttccggt ggcggcagcg gtatcagctc actcaaaagg ggttaatcgg
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2201 tttaggtatc tgagttcggg tgagttcgtt cgtctcaagc tgggctgtgt gcaacgaacc cccgttccag ccgacctcgt cgccttatcc ggttaactatc
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2501 tgatccggca aacaaaccac cgtctgtagc ggtgtgtttt ttgtttgcaa gcagcagatt acgcgcagaa aaaaaggatc tcaagaagat cctttgatct
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3701 aaacaaatag ggttccgcg cacttttccc cgaaaagtgc cactgcagct ctaagaaacc attattatca tgacattaac ctataaaaat aggcgtatca
3801 cgaggccctt tcgtc

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> RDC2652 Translated Insert Sequence

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1   maklialtll gmglalfnrh qssyqtrlna lrevqvvelp ncnlvkgiet gsedleilpn glafissglk ypgiksfnpn spgkillmdl needptvlel
101  gitgskfdvs sfnpghistf tdednamyll vvnhdakst velfkfgee kslhltktr hklpnlndi vavgphefyg tndhyfldpy lqswemylgl
201  awsyvvyysp sevrvaegf dfanginisp dgkyvyiael lahkhihvyek hanwtltpk sldfntlvdn isvdpetgdl wvgchnpgmk iffydsenpp
301  asevliqini lteepkvqv yaengtvlgq stvasvykgk lligtvfhka lycel

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