

## Product datasheet for **RG222624**

### **PON2 (NM\_000305) Human Tagged ORF Clone**

#### Product data:

Product Type: Expression Plasmids  
Product Name: PON2 (NM\_000305) Human Tagged ORF Clone  
Tag: TurboGFP  
Symbol: PON2  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-AC-GFP (PS100010)  
E. coli Selection: Ampicillin (100 ug/mL)  
ORF Nucleotide Sequence: >RG222624 representing NM\_000305  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGCGGCTGGTGGCTGTGGGCTTGCTGGGGATCGCGCTGGCGCTCCTGGGCGAGAGGCTTCTGGCAC  
TCAGAAATCGACTTAAAGCCTCCAGAGAAGTAGAATCTGTAGACCTTCCACACTGCCACCTGATTAAGG  
AATTGAAGCTGGCTCTGAAGATATTGACATACTCCCAATGGTCTGGCTTTTTTAGTGTGGGTCTAAAA  
TTCCCAGGACTCCACAGCTTGCACCAGATAAGCCTGGAGGAATACTAATGATGGATCTAAAAGAAGAAA  
AACCAAGGACACGGGAATTAAGAATCAGTCGTGGGTTTGATTTGGCCTCATTCAATCCACATGGCATCG  
CACTTTCATAGACAACGATGACACAGTTTATCTCTTTGTTGTAACCACCCAGAATTCGAAGATACAGTG  
GAAATTTTTAAATTTGAAGAAGCAGAAAATTTCTCTGTTGCATCTGAAAACAGTCAAACATGAGCTTCTC  
CAAGTGTGAATGACATCACAGCTGTTGGACCGGCACATTTCTATGCCACAAATGACCACTACTTCTCTGA  
TCCTTTCTTAAAGTATTTAGAAACATACTTGAACCTTACACTGGGCAAAATGTTGTTTACTACAGTCCAAAT  
GAAGTTAAAGTGGTAGCAGAAGGATTTGATTCAGCAAATGGGATCAATATTTACCTGATGATAAGTATA  
TCTATGTTGCTGACATATTGGCTCATGAAATTCATGTTTTGGAAAAACACTAATATGAATTTAACTCA  
GTTGAAGTACTTGAGCTGGATACTGGTGGATAATTTATCTATTGATCCTTCTCGGGGACATCTGG  
GTAGGCTGTCATCCTAATGGCCAGAAGCTTTCGTGTATGACCCGAACAATCCTCCCTCGTCAGAGGTTT  
TCCGCATCCAGAACATTCTATCTGAGAAGCCTACAGTGACTACAGTTTATGCCAACAAATGGGTCTGTCT  
CCAAGGAAGTTCTGTAGCCTCAGTGTATGATGGGAAGCTGCTCATAGGCACTTTATACCACAGAGCCTTG  
TATTGTGAACTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**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\\_000305.3](#)

**RefSeq Size:** 1669 bp

**RefSeq ORF:** 1065 bp

**Locus ID:** 5445

**UniProt ID:** [Q15165](#)

**Cytogenetics:** 7q21.3

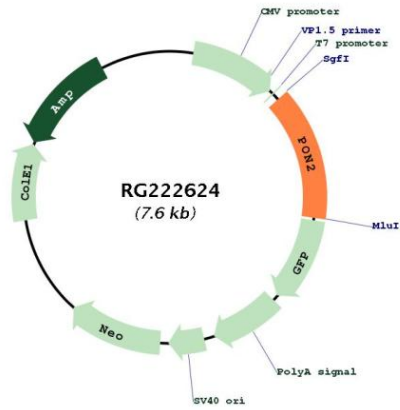
**Domains:** Arylesterase

**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]

Product images:



Circular map for RG222624