

## Product datasheet for **MR205401**

### Pon1 (NM\_011134) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pon1 (NM_011134) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pon1
Synonyms:	Pon
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205401 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGAAGCTGCTAGCACTCACCTCGTGGGACTGGTGTGGCACTTTACAAGAACCATCGGTCTTCT  
ATCAAACAAGATTAATGCTTCCGTGAAGTAACGCCAGTAGAACTTCTAACTGTAATTTAGTTAAAGG  
AATCGAGACGGGTGCTGAAGACTTAGAGATTCTGCCTAATGAACAACTTCTTTAGCACTGGGCTAAAG  
TATCCTGGAATAAAAAGTTTCGATCCCAGTAAGCCTGAAAAATACTTCTGATGGACTTGAACAAGAAGG  
AGCCAGCAGTGTGAGAGTTAGAAATTATAGGAAATACATTGGATATATCTTCATTTAACCCCTCATGGGAT  
TAGTACATTCACAGATGAAGATAACACTGTGTACCTACTGGTGGTAAACCATCCAGACTCCTCGTCCACT  
GTGGAGGTATTTAAATTTCAAGAAGAGGAAAGATCACTCTTGCATCTGAAAACCATCACACATGAACTTC  
TGCCCTAGCATCAACGATATAGCTGCTATTGGACCTGAGAGCTTTTATGCCACAAATGATCACTATTTTGC  
TGACCCATACTTACGGTCCTGGGAAATGTACTTGGGTCTGTGCTGGTCCAATGTTGTTTACTACAGTCCA  
GATAAAGTCCAGGTGGTAGCAGAAGGTTTGTATTCGCGAATGGCATTGGCATTCCCTTGATGGCAAGT  
ATGTCTATATAGCTGAATTGCTGGCTCACAAAGATTCATGTGTATGAAAAGCATGTAATTTGGACTTTAAC  
ACCATTGAAGTCTCACTTTGACACCCTTGTGGATAACATCTCTGTGGATCCTGTGACAGGGGACCTC  
TGGGTGGGATGCCATCCCAACGGAATGAGGATCTTTTTCTATGACGCAGAGAATCCTCCCGCTCAGAGG  
TGCTTCGAATCCAGAACATTTTATCCGAAGACCCAAAAATAACTGTAGTTTATGCAGAGAATGGTACCGT  
CCTGCAAGGCACCACGGTCGCCTCTGTGTACAAAGGGAAACTGCTGATTGGCACTGTGTTCCACAAAGCT  
CTTTACTGTGATCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205401 protein sequence  
Red=Cloning site Green=Tags(s)

MAKLLALTLVGLVLALYKNHRSSYQTRLNAFREVPVLPNCNLVKGIETGAEDLEILPNELTFFSTGLK  
 YPGIKSFDPSKPGKILLMDLNKKEPAVSELEIIGNTLDISSFNPHGISTFTDEDNTVYLLVYNHPDSSST  
 VEVFKFQEEERSLLHLKTIITHELLPSINDIAAIGPESFYATNDHYFADPYLRSWEMYLGLSWSNVVYSP  
 DKVQVVAEGFDFANGIGISLDGKYVYIAELLAHKIHVYEKHNWTLTPLKVLNFDLVDNISVDPVTGDL  
 WVGCHPNGMRIFFYDAENPPGSEVLRIQNILSEDPKITVVAENGTVLQGTTVASVYKGLLIGTVFHKA  
 LYCDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_011134

**ORF Size:** 1068 bp

**OTI Disclaimer:** 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:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_011134.1](#), [NM\\_011134.2](#), [NM\\_011134.3](#), [NP\\_035264.1](#), [NP\\_035264.2](#)

**RefSeq Size:** 1534 bp

**RefSeq ORF:** 1068 bp

**Locus ID:** 18979

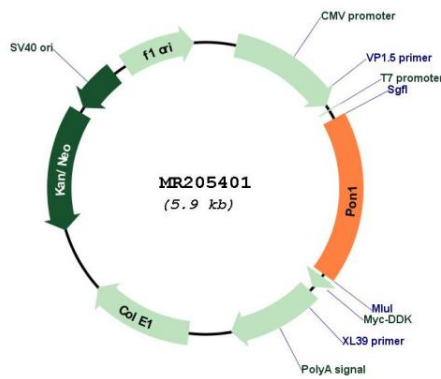
**UniProt ID:** [P52430](#)

**Cytogenetics:** 6 1.99 cM

**MW:** 39.6 kDa

**Gene Summary:** Hydrolyzes the toxic metabolites of a variety of organophosphorus insecticides. Capable of hydrolyzing a broad spectrum of organophosphate substrates and lactones, and a number of aromatic carboxylic acid esters. Mediates an enzymatic protection of low density lipoproteins against oxidative modification.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR205401