

## Product datasheet for MR220409

### Pon3 (NM\_173006) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Pon3 (NM_173006) Mouse Tagged ORF Clone                                     |
| Tag:                      | Myc-DDK   |
| Symbol:                   | Pon3  |
| Synonyms:                 | 2810004E20; A1786302  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >MR220409 representing NM_173006<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGGAAGCTTGTGGCGCTGACCTTGCTGGGAGCCTGTCTGGCCTTAATAGGGGAAAGGCTGCTGAATT  
TTAGAGAACGAGTTAGTACAACCTCGAGAAATAAGGCCACAGAACCACAAAAGTCCACCTGATTGAGGG  
CCTCGAGAATGGCTCTGAAGATATTGATATACTCCTAGCGGGCTGGCTTTTATCTCCACTGGATAAAA  
TATCCGGGCATGCCAGCGTTTGCACCGGACAAACCAGGAAGAATCTTTCTGATGGATCTGAATGAGCAA  
ACCCAGAGGCGCAAGCACTGGAAATCAGTGGTGGGCTTGACCAGGAGTCACTAAATCCTCACGGGATCAG  
CACTTTTCATCGACAAAGACAACACTGCTTATCTTTATGTCGTGAATCACCCCAACATGGACTCCACTGTG  
GAGATATTTAAGTTTGAAGAACAACAACGCTCTCTCATCCACCTGAAAATCTAAAAATGAACTTCTCA  
AGAGTGTGAATGACATTGTGGTTCTTGGGCCAGAGCAGTTCTATGCCACAAGAGACCATTACTTTACCAG  
TTATTTCTTGGTACTTCTGGAGATGATCTTGGACCCTCACTGGACTTCCGTCGTTTTCTACAGCCAAAA  
GAGGTCAAAGTTGTGGCCAAGGATTGAGTTCTGCCAACGGAATCACAGTCTCACTAGACCAGAAGTTTG  
TCTATGTAGCTGATGTAACAGCTAAGAATTACATAATGAAAAACATGATAATTGGGATTTAACTCC  
AGTGAAGTCAATCAGCTGGGAACCTTAGTGGATAAAGTACCCTGAGGATCCTCCAGGGTCAGAAGTAC  
GCAGGCTGCCACCCTAACCCATGAAGCTGTTGATCTATAACCCTGAGGATCCTCCAGGGTCAGAAGTAC  
TACGATCCAGGACTCTTTGTGAGATAAGCCAGGGTGAGCACACTGTATGCGAACAACGGCTCTGTGCT  
TCAGGGCAGCACCGTGGCTTCTGTGATCATAAGAGAATGCTCATAGGACTATATTTACAAAAGCTCTG  
TACTGTGACCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR220409 representing NM\_173006  
Red=Cloning site Green=Tags(s)

MGKLVALTLLGACLALIGERLLNFRERVSTTREIKATEPQNCHLIEGLENGSEDIDILPSGLAFISTGLK  
 YPGMPAFAPDKPGRIFLMDLNEQNPEAQALEISGGLDQESLNPHGISTFIDKDNTAYLYVNVNHPNMDSTV  
 EIFKFEEQQRSLIHLKTLKHELLKSVNDIVVLGPEQFYATRDHYFTSYFLVLLMILDPHWTSSVVFYSPK  
 EVKVVAQGFSSANGITVSLDQKFVYVADVATAKNIHIMKKHDNWDLTPVKVIQLGTLVDNLTVDPATGDIL  
 AGCHPNPMKLLIYNPEDPPGSEVLRIQDSLSDKPRVSTLYANNGSVLQGSTVASVYHKRMLIGTIFHKAL  
 YCDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9006\\_h07.zip](https://cdn.origene.com/chromatograms/mm9006_h07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_173006

**ORF Size:** 1062 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\\_173006.2](#)

**RefSeq Size:** 1784 bp

**RefSeq ORF:** 1065 bp

**Locus ID:** 269823

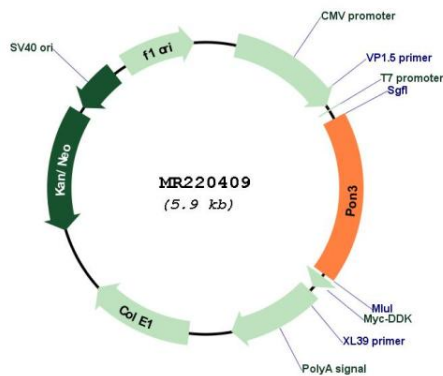
**UniProt ID:** [Q62087](#)

**Cytogenetics:** 6 1.99 cM

**MW:** 39.8 kDa

**Gene Summary:** Has low activity towards the organophosphate paraxon and aromatic carboxylic acid esters. Rapidly hydrolyzes lactones such as statin prodrugs (e.g. lovastatin). Hydrolyzes aromatic lactones and 5- or 6-member ring lactones with aliphatic substituents but not simple lactones or those with polar substituents (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR220409