

## Product datasheet for **RG228364**

### MPND (NM\_001159846) Human Tagged ORF Clone

#### Product data:

|                           |                                                                                |
|---------------------------|--------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                            |
| Product Name:             | MPND (NM_001159846) Human Tagged ORF Clone                                     |
| Tag:                      | TurboGFP                                                                       |
| Symbol:                   | MPND                                                                           |
| Mammalian Cell Selection: | Neomycin                                                                       |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                        |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                         |
| ORF Nucleotide Sequence:  | >RG228364 representing NM_001159846<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGC**C

ATGGCAGCTCCGGAGCCGCTGTCCCGGCGGGCGGTGCGGGCGAGGAGGCGCCGGAGGAGGACGAGGACG  
AAGCGGAGGCCGAGGACCTGAGCGGCCGAATGCGGGAGCGGGCGGTGGACGAGTGGCGGCGGGCGCAG  
TAGCGTCAGCGGAGGAGGCGGGCGGGCGGGCGGGGGCTGCGGCGGGCCCGGGGCGCGCTC  
ACGAGGCGCGGTCACACTGCGGGTGTCTCTCAAAGACGCGCTGCTGGAGCCTGGCGCCGGGGTGTGT  
CCATCTACTACCTGGGAAGAAGTTCTGGGCGACCTGCAGCCAGACGGAAGGATCATGTGGCAGGAGAC  
CGGGCAGACCTTCAACTCACCCAGCGCCTGGGCCACCCACTGCAAGAAGCTGGTGAACCTGCCAAGAAG  
TCGGGCTGTGGCTGGGCTCTGTCAAGTACAAAGGCCAGAACTGGACAAGTACAAGGCCACCTGGCTCC  
GGCTGCACCAGCTGCACACGCTGCCACGGCTGCTGATGAGAGCCAGCCAGTGAAGGGGAGGAGGAGGA  
GTTGCTGATGGAAGAGGAGGAGGAGGACGTTCTGGCAGGGGTCTCAGCAGAGGACAAGAGTCGGAGACCA  
CTGGGGAAGAGCCCTTCAGAGCCTGCCACCCGAGGCCACAACCCAGGGAAGCGGGTGGACAGCAAGA  
TCCGGGTTCGGTCCGCTACTGCATGCTGGGCGAGCGGACTTGGCCAGGAACCCACACCTGGTGGA  
AGTAACATCCTTTGCAGCCATCAACAAGTTCCAGCCGTTCAACGTGGCTGTTTCTAGCAACGTGCTGTT  
CTGCTGATCTACCAGAGCCTGTTCTGCGGGGCTGTCCCTGGTGGGCTGGTACCACAGCCACCCACACA  
GCCCGGCGCTGCCATCTCTGCAGGACATCGACGCACAGATGGACTACCAGCTGCGGCTGCAGGGCTCCAG  
CAATGGCTTCAGCCCTGCCTCGCCCTGCTGTGCTCCCTTACTATTCTGGCAACCCAGGCCCGAGTCC  
AAGATCTCACCTTTCTGGGTGATGCCTCTCCCGAGCAAAGGCCAGTACTATGGCATCCCCATGGATG  
TGGAGATGGCCTACGTCCAGGACAGCTTCTGACCAATGACATCCTTCACGAGATGATGCTGCTGGTGGA  
GTTCTACAAGGGTTCCTTGACCTCGTGAAGGCTCCAGGAACCTGGAGCCAGGAGCACACCTACCTCGAC  
AAGCTTAAGATCTCCTTGGCCAGCAGGACGCCAAGGACCAGAGCCTGTGTCACGTCTGGAACAGGTGT  
GCGGCGTCTCAAGCAGGGGAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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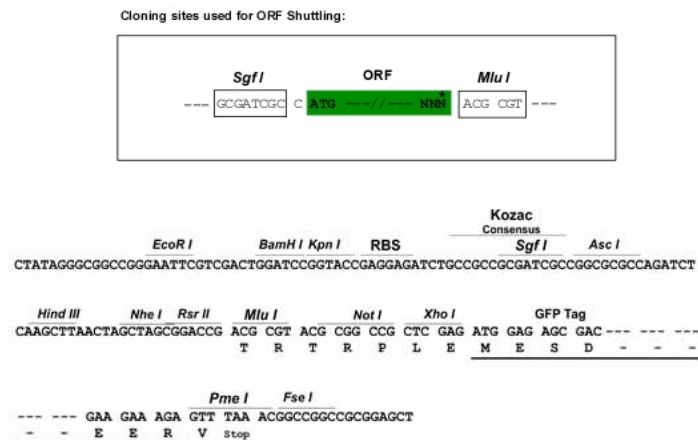
**Protein Sequence:** >RG228364 representing NM\_001159846  
 Red=Cloning site Green=Tags(s)

MAAPEPLSPAGGAGEEAPEEDEDEAEADPERPNAGAGGGRSGGGSSVSGGGGGGAGAGGCGGPGGAL  
 TRRAVTLRVLLKDALLEPGAGVLSIYYLGKKFLGDLQPDGRIMWQETGQTFNPSAWATHCKKLVPAAK  
 SGCGWASVKYKGQKLDKYKATWLRHLQLHTPATAADESPASEGEEEEELMEEEEEDVLAVSAEDKSRRP  
 LGKSPSEPAHPEATTGKRVDSKIRVPVRYCMLGSRDLARNPHLVEVTSFAAINKFQPFNVAVSSNVLF  
 LLIIYQSLFLRGLSLVGWYHSHPHSPALPSLQDIDAQMDYQLRLQGSSNGFQPCALLCSPYYSGNPGPES  
 KISPFWMPPPEQRPSDYGIPMDVEMAYVQDSFLTNDILHEMMLLVEFYKGSPDLVRLQEPWSQEHTYLD  
 KLIKISLASRTPKQSLCHVLEQVCGVLKQGS

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001159846

**ORF Size:** 1353 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\\_001159846.1](#), [NP\\_001153318.1](#)

**RefSeq Size:** 1523 bp

**RefSeq ORF:** 1356 bp

**Locus ID:** 84954

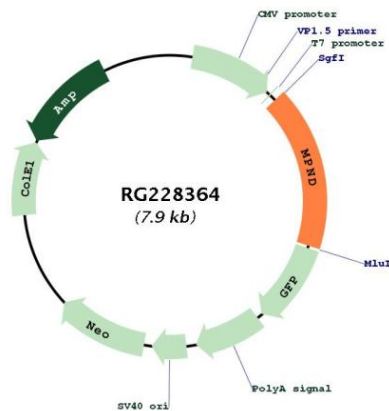
**UniProt ID:** [Q8N594](#)

**Cytogenetics:** 19p13.3

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** Probable protease.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG228364