

## Product datasheet for **MG203425**

### **Pnpo (NM\_134021) Mouse Tagged ORF Clone**

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Pnpo (NM_134021) Mouse Tagged ORF Clone                                     |
| Tag:                      | TurboGFP  |
| Symbol:                   | Pnpo  |
| Synonyms:                 | AI415282  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >MG203425 representing NM_134021<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGTGCGGGCTGCTGAGCGTCACTGTGACGTTCCAGGAGACCTGCGAAGTGGACGGGCTACCTCCGTC  
ACCTGTGCTGTCGGGGTGCAGTCATGGACCTGGGACCAATGCGCAAGAGTTACCGCGGGGATCGAGAGGC  
ATTCGAGGAGACTCATCTGACCTCTCTGGATCCCATGAAGCAGTTTGCTTCTGGTTTGACGAGGCTGTT  
CAGTGTCCGGACATAGGAGAAGCCAATGCTATGTGTGGCTACCTGCACCAGAGACGGAAAACCTCTG  
CCCGATGCTGCTGCTGAAGGGTTTGGCAAAGACGGCTTCCGCTTCTTACTAACTACGAGAGCCGGAA  
GGGAAAAGAGCTGGATTCTAATCCCTTTGCCTCTTGTCTTCTACTGGGAGCCCTGAACCGTCAGGTTG  
CGTGTGGAAGGCCCTGTGAAGAACTCCAGAGAAGGAGGCCGAGAACTACTTCCATTCCCGCCCAAGA  
GCAGCCAGATTGGGGCTGTGGTCAGTCGCCAGAGTTCTGTGATCCCTGACCGGGAGTACCTGAGAAAAGAA  
AAATGAGGAAGTGGGCAGCTCTACCAGGACCAAGAGGTACCCAAGCCAGAATACTGGGGTGGCTACATC  
CTGTACCCCAAGTGATGGAGTTTGGCAAGGCCAAACCAACCGCCTCCATGACCGTATTGTCTTCCGCC  
GAGGCCTGGCAACAGGAGACTCCCTTTGGACCCATGACCCACCACGGGGAGGAAGACTGGGTGTATGA  
GAGACTTGCACCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203425 representing NM\_134021  
Red=Cloning site Green=Tags(s)

MTCGLLSVTVTFRPAKWTGYLRHLCCRGAVMDLGPMPKRSYRGDREAFEETHLTSLDPMKQFASWFDEAV  
 QCPDIGEANAMCVATCTRDGKPSARMLLLKGFKDGFRFFFTNYESRKGKELDSNPFASLVFYWEPLNRQV  
 RVEGPVKLLPEKEAENYFHSRPKSSQIGAVVSRQSSVIPDREYLRKKNEELGQLYQDQVEVPKPEYWGYYI  
 LYPQVMEFWQGTNRLHDRVFRRLATGDSPLGPMTHHGEEEDWVYERLAP

TRTRPLE - GFP Tag - V

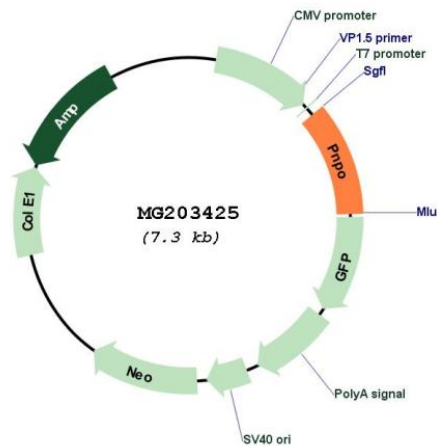
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_134021

**ORF Size:** 783 bp

|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_134021.2</a> , <a href="#">NP_598782.1</a>   |
| <b>RefSeq Size:</b>           | 2048 bp   |
| <b>RefSeq ORF:</b>            | 786 bp  |
| <b>Locus ID:</b>              | 103711  |
| <b>UniProt ID:</b>            | <a href="#">Q91XF0</a>  |
| <b>Cytogenetics:</b>          | 11 D  |
| <b>Gene Summary:</b>          | Catalyzes the oxidation of either pyridoxine 5'-phosphate (PNP) or pyridoxamine 5'-phosphate (PMP) into pyridoxal 5'-phosphate (PLP).[UniProtKB/Swiss-Prot Function]  |