

## Product datasheet for **MG207240**

### **Pah (NM\_008777) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pah (NM_008777) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pah
Synonyms:	AW106920
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG207240 representing NM\_008777  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCAGCTGTTGTCCTGGAGAACGGAGTCTGAGCAGAAAACCTCTCAGACTTTGGGCAGGAAACAAGTT  
 ACATCGAAGACAACCTCCAATCAAAATGGTGTATCTCTGATATTCTCACTCAAAGAGGAAGTTGGTGC  
 CCTGGCCAAGGTCTGCGCTTATTTGAGGAGAATGAGATCAACCTGACACACATTGAATCCAGACCTTCT  
 CGTTTAAACAAAGATGAGTATGAGTTTTTACCTATCTGGATAAGCGTAGCAAGCCCGTCTGGGCAGCA  
 TCATCAAGAGCCTGAGGAACGACATTGGTGCCACTGTCCATGAGCTTTCCCGAGACAAGGAAAAGAACAC  
 AGTGCCCTGGTTCCCAAGGACATTGAGGAGCTGGACAGATTCCCAATCAGATTCTCAGCTATGGAGCC  
 GAACTGGATGCAGACCACCCAGGCTTTAAAGATCCTGTGTACCGGGCGAGACGAAAGCAGTTTGCTGACA  
 TTGCTTACAACCTACCGCCATGGGCAGCCATTCTCGGGTGAATACACAGAGGAGGAGGAAGACCTG  
 GGAACCGTGTTCAGGACTCTGAAGCCTTGATAAAACACATGCCTGCTACGAGACAACCACATCTTC  
 CCTCTTCTGGAAGACTGCGGTTTCCGTGAAGACAACATCCCGCAGCTGGAAGATGTTTCTCAGTTTC  
 TGCAGACTTGTACTGGTTCCCGCTCCGCTCTGTTGCTGGCTTACTGTCGCTCAGAGATTCTTGGGTGG  
 CCTGGCCTCCGAGTCTTCCACTGCACACAGTACATTAGGCATGGATCTAAGCCCATGTACACACCTGAA  
 CCTGATATCTGTCATGAACCTCTGGGACATGTGCCCTGTTTTAGATAGAAGCTTTGCCAGTTTTTCTC  
 AGGAAATTGGGCTTGCATCGCTGGGGCACCTGATGAGTACATTGAGAACTGGCCACAATTTACTGGTT  
 TACTGTGGAGTTTGGGCTTTGCAAGGAAGGAGATTCTATAAAGGCATATGGTGTGGGCTCTTGTATCC  
 TTTGGAGAATTACAGTACTGTTTATCAGACAAGCCAAAGCTCTGCCCTGGAGCTAGAGAAGACAGCCT  
 GCCAGGATATACTGTACAGAGTCCAGCCCTGTACTATGTGGCCGAGAGTTTCAATGATGCCAAGGA  
 GAAAGTGAGGACTTTTGTGCTGCCACAATCCCGGCCCTTCTCGTTTCGCTATGACCCCTACACTCAAAGG  
 GTTGAGGTCTGGACAATACTCAGCAGTTGAAGATTTAGCTGACTCCATTAATAGTGAGGTTGGATCC  
 TTTGCCATGCCCTGCAGAAAATAAAGTCA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG207240 representing NM\_008777  
 Red=Cloning site Green=Tags(s)

MAAVVLENGVLSRKLSDFGQETSIEDNSNQNGAVSLIFSLKEEVGALAKVLRRLFEEINEINLTHIESRPS  
 RLNKDEYEFFTYLDKRSKPVLSIISKLRNDIGATVHEL SRDKEKNTVPWFPRTIQELDRFANQILSYGA  
 ELDADHPGFKDPVYRARRKQFADIAYNRHHGQPIPRVEYTEEERKTWGTVFRTLKALYKTHACYEHNHIF  
 PLLEKYCGFREDNIPQLEDVVSQFLQCTGFRLRPVAGLLSSRDFLGGLAFRVFHCTQYIRHGSKPMYTP  
 PDICHELLGHVPLFSDRSFAQFSQEIGLASL GAPDEYIEKLATIIYWFTVEFGLCKEGDSIKAYGAGLLSS  
 FGELQYCLSDPKLLPLELEKTACQEYTVTEFQPLYYVAESFNDAKEKVRTFAATIPRPFVRYDPYTQR  
 VEVL DNTQQLKILAD SINSEV GILCHALQKIKS

**TRTRPLE** – GFP Tag – V

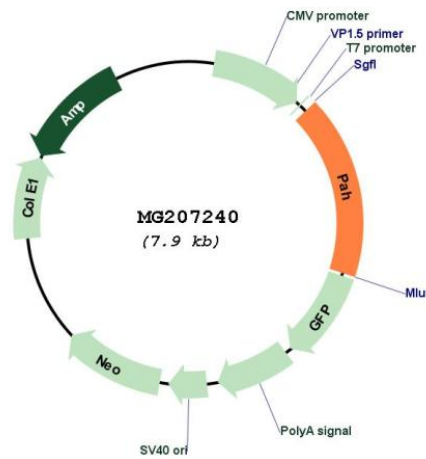
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_008777

ORF Size: 1359 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.

<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_008777.1</a> , <a href="#">NP_032803.1</a>
<b>RefSeq Size:</b>	1959 bp
<b>RefSeq ORF:</b>	1362 bp
<b>Locus ID:</b>	18478
<b>UniProt ID:</b>	<a href="#">P16331</a>
<b>Cytogenetics:</b>	10 43.64 cM
<b>Gene Summary:</b>	Catalyzes the hydroxylation of L-phenylalanine to L-tyrosine.[UniProtKB/Swiss-Prot Function]