

## Product datasheet for **RR210811**

### Pah (NM\_012619) Rat Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
Product Name: Pah (NM\_012619) Rat Tagged ORF Clone  
Tag: Myc-DDK  
Symbol: Pah  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
Cell Selection: Neomycin  
ORF Nucleotide Sequence: >RR210811 representing NM\_012619  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCTGTTGTCCTGGAGAATGGAGTCTGAGCAGAAAACCTCTCAGACTTTGGCGAGAAACAAGCT  
ATATTGAAGACAACCTCAATCAAATGGTGCCATATCTCTGATATTCTCACTCAAAGAGGAAGTTGGTGC  
CCTAGCCAAGGTCTGCGCTTATTTGAGGAGAACGATATCAACCTGACACACATTGAATCCAGACCTTCT  
CGTTTAAACAAAGATGAGTATGAGTTCTCACTTATCTGGATAAGCGTAGCAAACCTGTTCTGGGCAGCA  
TCATCAAGAGCCTGAGGAATGACATTGGTGCCACTGTCCACGAGCTTTCCCGAGACAAGGAAAAGAACAC  
AGTGCCCTGGTTCCCAAGGACCATTCAGGAGTTGGACCGATTCGCCAATCAGATTCTCAGCTATGGAGCC  
GAACTGGATGCGGACCACCCAGGCTTTAAAGATCCTGTGTACCGGGCGAGACGAAAGCAGTTTGCTGACA  
TTGCCTACAACCTACCGCCATGGCCAGCCCATCCCTCGGGTGAATACACAGAGGAAGAGAAGCAGACCTG  
GGGAACGGTGTTCAGGACCTTGAAGCCTTGATAAAAACACATGCCTGCTACGAGCACAACCACATTTTC  
CCACTTCTGAAAAGTACTGCGGTTCCGTGAAGACAACATTCCACAGCTGGAAGATGTTTCTCAATTTTC  
TGCAGACTTGTACTGGTTCCGCTCCGACCTGTTGCTGGCTTACTGTCATCTCGAGATTTCTTGGGTGG  
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CCTGACATCTGCCATGAACTCTTGGGACATGTGCCCTTTGTTTTAGATCGCAGCTTTGCCAGTTTTTCTC  
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TTTGGAGAATTACAGTACTGTTTATCAGACAAGCCAAAGCTCTCCCCCTGGAGCTAGAGAAGATAGCCT  
GCCAGGAGTATTCTGTACAGAGTTCAGCCCTTGTACTACGTGGCGGAGAGTTTCAGTGATGCCAAGGA  
GAAAGTGAGGACTTTTGTGCCACGATCCCTCGGCCCTTCTCGGTTTCGCTATGACCCTTACACTCAAAGG  
GTTGAGTCTGGACAATACTCAGCAGTTGAAGATTTAGCTGACTCCATTAATAGTGAGGTCGGAATCC  
TTTGAATGCCCTGCAGAAGATAAAGTCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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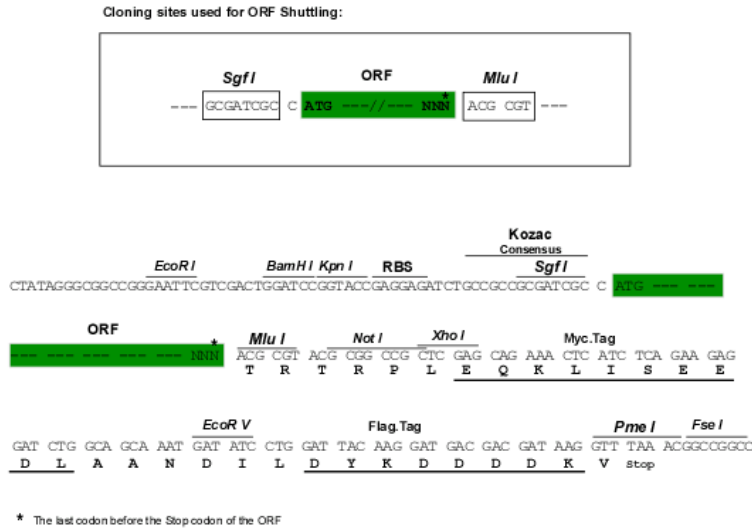
**Protein Sequence:** >RR210811 representing NM\_012619  
Red=Cloning site Green=Tags(s)

MAAVLENGVLSRKLSDFGQETSYIEDNSNQNGAISLIFSLKEEVGALAKVLRLEFEENDINLTHIESRPS  
 RLNKDEYEFFTYLDKRSKPVLSIIKSLRNDIGATVHELSDRKEKNTVPWFPRTIQELDRFANQILSYGA  
 ELDADHPGFKDPVYRARRKQFADIAYNYRHGQPIPRVEYTEEEKQTWGTVFRTLKALYKTHACYEHNHIF  
 PLLEKYCGFREDNIPQLEDVVSQFLQTCTGFRLRPVAGLLSSRDFLGGLAFRVVFHCTQYIRHGSKPMTPE  
 PDICHELLGHVPLFSDRSFAQFSQEIGLASLAPDEYIEKLATIIYWFTVEFGLCKEGDSIKAYGAGLLSS  
 FGELQYCLSDKPKLLPLELEKIAAQEYSVTEFQPLYYVAESFSDAKEKVRTFAATIPRPFVRYDPYTQR  
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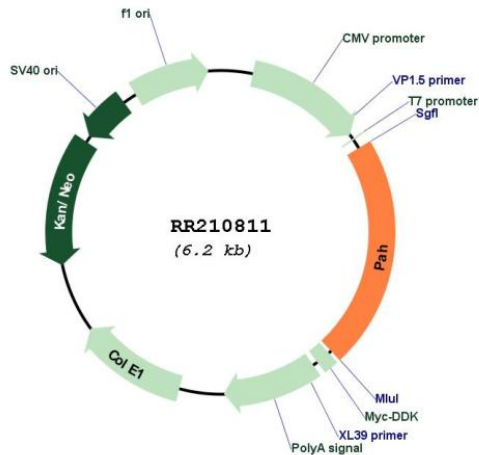
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



<b>ACCN:</b>	NM_012619
<b>ORF Size:</b>	1359 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_012619.2</a> , <a href="#">NP_036751.2</a>
<b>RefSeq Size:</b>	2040 bp
<b>RefSeq ORF:</b>	1362 bp
<b>Locus ID:</b>	24616
<b>Cytogenetics:</b>	7q13
<b>MW:</b>	51.8 kDa
<b>Gene Summary:</b>	catalyzes the conversion of phenylalanine to tyrosine; deficiency in humans causes genetic disorder phenylketonuria [RGD, Feb 2006]