

## Product datasheet for **RR210919**

### Paics (NM\_080910) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Paics (NM\_080910) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Paics  
**Synonyms:** Ade2h1; Airc  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR210919 representing NM\_080910  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGACAGCTGAAGTACTGAACATCGGGAGAAAGCTGTATGAGGGTAAAACAAAGGAAGTCTATGAAT  
TGTTAGACAGTCCAGGAAGAGTCTCCTGCAGTCCAAGGACCAGATTACAGCAGGAAATGCAGCTAGAAA  
GAACCACTGGAAGGCAAAGCCGCCATCTCCAATAAGATCACCAGCTGCATATTTCAAGTTGTACAGGAA  
GCTGGTATAAAAACTGCTTTCACCAAGAAATGTGGGGAGACTGCTTTCATTGCACCCAGTGTGAAATGA  
TTCCAATTGAGTGGGTATGCCGAAGAATCGCCACTGGATCTTTTCTCAAAGGAACCCCTGGTGTGAAGGA  
GGGGTATAGGTTTTATCCACAAAAGTAGAGATGTTCTTCAAGGATGATGCCAATAACGACCCACAATGG  
TCTGAGGAGCAACTCATCGCTGCAAAAATTTTGTGGTGGACTCGTTATAGGGCAAAGTGAAGTGGATA  
TCATGAGTCATGCCACACAAGCTATTTTGAATTTCTGGAGAAATCCTGGCTGCCCAAAAGTGTACGCT  
GGTTGATATGAAGATTGAGTTTGGCGTTGATGTAACCACCAAAGAGATTGTTCTTGTCTGATGTCATAGAT  
AATGATTCCTGGAGACTATGGCCATCAGGAGATCGGAGCCAGCAGAAAGACAAACAGTCTTATCGGGATC  
TCAAAGAAGTAACTCCGGAAGGACTCCAGATGGTAAAGAAGAACTTTGAGTGGGTTGCAGACCCGAGTGGA  
GTTGCTTCTCAAGTCAAACAGTCAAGTGCAGGGTGGTAGTGTGATGGGGTCGACCTCTGACCTTGGTCCAC  
TGTGAAAAAATTAAGAAGGCTTGTGAAAATTTGGGATTCATGTGAACTTAGAGTAACATCTGCACATA  
AAGGACCAGATGAACTTTGAGGATTAAGCAGAATATGAAGGGGATGGCATACTACTGTATTTGTTCGC  
AGTGGCGGGCAGGAGCAATGGACTGGGCCAGTGTCTGGTAATACTGCATACCCGGTTATCAGCTGT  
CCCCAATCACAGCAGACTGGGGTGTCTCAGGATGTGTGGTCTCTCGACTGCCAGTGGTATTGGCT  
GTTCAACTATACTTTCTCCAGAAGGATCAGCCAGTTTGTCTCAGATATTTGGGTTAAACAACCATTT  
GGTGTGGCCAACTTCGAGCGAGCAAAGTGAACACGTGGATATCCTTAAAGCAGGCTGATAAGAAAATC  
AGAGAGTCAATTTG

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR210919 representing NM\_080910  
 Red=Cloning site Green=Tags(s)

MATAEVLNIGRKLYEGKTKEYVELLDSPGRVLLQSKDQITAGNAARKNHLEGKAAISNKITSCIFQLLQE  
 AGIKTAFTKKCGETAFAIAPQCEMIPIEWVCRRIATGSFLKRNPGVKEGYRFYPPKVEMFFKDDANNDPQW  
 SEEQLIAAKFCFAGLVIGQTEVDIMSHATQAI FEILEKSWLPQNCTLVDMKIEFGVDVTTKEIVLADVID  
 NDSWRLWPSGDRSQQKDKQSYRDLKEVTP EGLQMVKNFEWVADRVELLLKSN SQCRVVVLMGSTSDLGH  
 CEKIKKACGNFGIPCEL RV TSAHKGPDETLRIKAEYEGDGIPTVFVAVAGRSNGLGPMMSGNTAYPVISC  
 PPI TADWGAQDVWSSLRLPSGIGCSTILSPEGSAQFAAQIFGLNNHLVWAKLRASKLNTWISLKQADKKI  
 REC NL

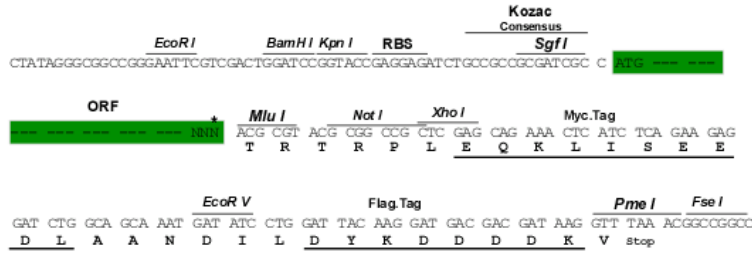
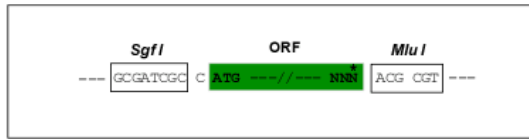
TRTRP LEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

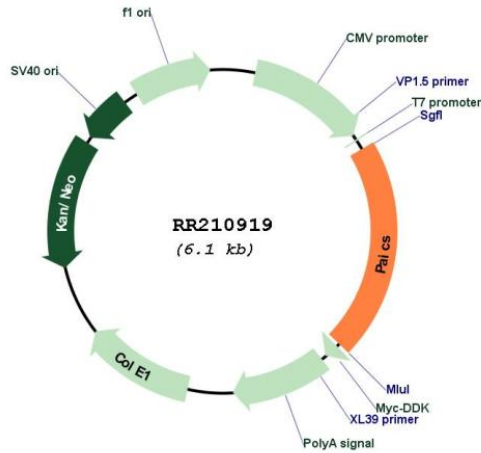
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM\_080910

<b>ORF Size:</b>	1275 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_080910.3</a> , <a href="#">NP_543186.1</a>
<b>RefSeq Size:</b>	1994 bp
<b>RefSeq ORF:</b>	1278 bp
<b>Locus ID:</b>	140946
<b>UniProt ID:</b>	<a href="#">P51583</a>
<b>Cytogenetics:</b>	14p11
<b>MW:</b>	47.1 kDa
<b>Gene Summary:</b>	bifunctional enzyme that catalyzes the 6th and 7th step in de novo purine nucleotide synthesis [RGD, Feb 2006]