

## Product datasheet for **RR211806**

### Epsti1 (NM\_001044257) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Epsti1 (NM\_001044257) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Epsti1  
**Synonyms:** RGD1563207  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR211806 representing NM\_001044257  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTACCCCGCAGTAGGGTGGTGGGCCAGGCTTGGGCACTTCCTCCAGCTCTCGGGACCACGCTGGAG  
CAGGGCAGCATGGGGAGCTGGACCTGCAGCAAACCAGAGACAGAATTTGGAGGTGGCAGAGCCCAAGGG  
CCCTAAGTTGGAGAGGCAGGGGCATGGTGACCAGAGGAGCACAGGCACATACACCCTGATAGCACCGAAC  
GAGACCCGGAGGCAGAAGATACAGAGAATTGCTGAGCAAGAAGTGGCGGACTTGGAGAGGTGGAAGCAAC  
AGAACAAGGCAAAACAGTCCACTTGGTTCCGCAAAAGGCTGGGTGGAAGCCAGTCTGAGGCTGAAGTCAG  
GCAGAAACAACAGCTCCAACAGATGCGATCTAAATACCAGCAAAAGCTAAAGAGAGATGAAGCTATTCGA  
ATCAGGAAGGATGCTGAGGAAGCTGAGCTCCAAGAATGAAGGCAATCCAGAGGGAGAAGAGTAATAAAC  
TAGAAAAGAAAAGCAACTTCAGGAAGACATCAGAAGAGCCACTTTCGAGAGCACCATCAGTCCAAAAC  
TGCTGAGCTCTTGAGCAGACTGGACACAGACCCGGACAAACAGAAGTGCTTGTAAACATTGCTCCTCCGGCT  
GCCCAGTCTCAAGATGAAAACCTCCAGTCTGCTTAGAGACCCAGCAGGGCTGGTAGCCAAGCACACA  
AGGATTTCCACAGAAGGAAGACAACCAAAAACCTGCAAAAGACGAGGGACGGACATCAGAAGAATAAATT  
ACTGAAAATAAAGGACAGCACCAGGAGGAAGAAAGAGCCAAATCCATCAAGCTGAGCACTGGAGGGTA  
AATAATGCTTTTCTGGACCGACTCCAAGGCAAAAGTCAACCAGGTGGCGTTGAGCAGTCTGGAGGCTGTT  
GGAATATGAATAGTACTGACGGCTGGGTATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR211806 representing NM\_001044257  
Red=Cloning site Green=Tags(s)

MYPRSRVVGPLGTSSSRDHAGAGQHGEDLQQNQRQNLVAEPKGPKLERQGHGDQRSTGTYTLIAPN  
 ETRRQKIQRIAEQELADLERWKQNKAKPVHLVPQRLGGSQSEAEVRQKQQLQQMRSKYQQKLRDEAIR  
 IRKDAEEAELQRMKAIQREKSNKLEKKKQLQEDIRRATLREHHQSKTAELL SRLDTRTNRSACNIAPPA  
 AQSSRWKLPVLLRDP SRAGSQAHKDSPQKEDNQKLQKTRDGHQKNKLL ETKGQHQQEERAQIHQAEHWRV  
 NNAFLDRLQGKSQPGGVEQSGGCWNNMNSTDGWGI

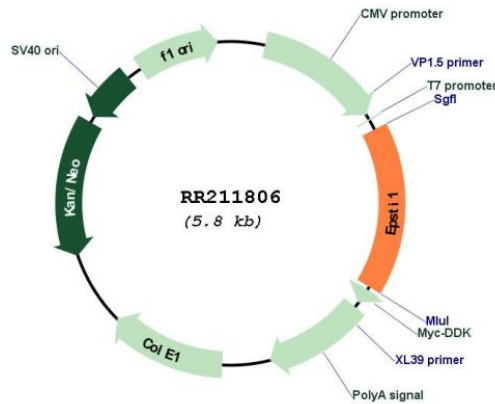
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001044257

**ORF Size:** 942 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_001044257.1</a> , <a href="#">NP_001037722.1</a>
<b>RefSeq Size:</b>	1582 bp
<b>RefSeq ORF:</b>	945 bp
<b>Locus ID:</b>	498547
<b>UniProt ID:</b>	<a href="#">Q5BK43</a>
<b>Cytogenetics:</b>	15q11
<b>MW:</b>	36 kDa
<b>Gene Summary:</b>	Plays a role in M1 macrophage polarization and is required for the proper regulation of gene expression during M1 versus M2 macrophage differentiation (By similarity). Might play a role in RELA/p65 and STAT1 phosphorylation and nuclear localization upon activation of macrophages (By similarity).[UniProtKB/Swiss-Prot Function]