

## Product datasheet for **RN207580**

### Emc10 (NM\_001004221) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Emc10 (NM_001004221) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Emc10
Synonyms:	Inm02
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN207580 representing NM_001004221 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGCTCGGCTCTTCCAGCGCTTCGGTATGGTGGCCGCGGGTGCCGGCGTGACCCAGCTGCTAGTGC  
TCTTGTGATGGTAGCCGCGTTCTAGCAGAGCCCGGGCAGCGGCTGCCGGTTCGGAGCCGCCGCGC  
CGGGTGGGAGCTGATGGCCATGAAGCTGAGGGCTGTGGCACTGTGGCATTGCTGCTGGAACATTCATT  
GAGATTGGTATGGCCAACTCCAGAAGCGTGGCTCTCTGCTCTGGAACCAGCAGGACGGCACCTTGT  
CGGCGACACAGCGACAGCTCAGCGAGGAAGAGCGGGCCGACTCCGGGATGTGGCTGCTGCAATGGCCT  
CTACAGGGTTCGGGTCCCAAGCGGCCTGGGACTTGTATGGTTCAGAAGCTGGTGGCCAGTGTCTTCC  
TTTGTCCAGCGTGTCCCTGGTTGAGTCACATCTCTCGGACCAGCTGACCTTGCACGTGGATGTGGCTG  
GCAACGTGGTAGGCTGTCCGGTGGTAGTGTACCCCGGGGGCTGCCGGGGCTCTGAGGTGGAAGATGAGGA  
CCTGGAGCTGTTCAATACATCTGTTCACTCGGCCTCCAGGCACCGCTCCAGGCCCCGAGACGGCGGCC  
TTCATTGAGCGGCTGGAGATGGAGCAGGCCAAGAATCCTCAGGAACAGAAGTCTTTCTTTG  
CCAAATACTGGATGTACATCATTCCAGTCGTGTTCTCATGATGTCCGGAGCGCCGGACGCCGGGG  
CCAGGGCGGTGGTGGGGTGGGGCAGCAGCCG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001004221
Insert Size:	807 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">NM_001004221.2</a></u> , <u><a href="#">NP_001004221.2</a></u>
<b>RefSeq Size:</b>	1683 bp
<b>RefSeq ORF:</b>	807 bp
<b>Locus ID:</b>	292878
<b>UniProt ID:</b>	<u><a href="#">Q6AYH6</a></u>
<b>Cytogenetics:</b>	1q22
<b>Gene Summary:</b>	Promotes angiogenesis and tissue repair in the heart after myocardial infarction. Stimulates cardiac endothelial cell migration and outgrowth via the activation of p38 MAPK, PAK and MAPK2 signaling pathways.[UniProtKB/Swiss-Prot Function]