

## Product datasheet for **RR212577**

### **Mpc1 (NM\_133561) Rat Tagged ORF Clone**

#### **Product data:**

**Product Type:** Expression Plasmids  
**Product Name:** Mpc1 (NM\_133561) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Mpc1  
**Synonyms:** Brp44l; SLC54A1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR212577 representing NM\_133561  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGGCTGGAGCTCTGGTGC**CAAAGCAGCGGACTATGTCCGGAGCAAGGACTTCCGGGACTATCTCATGA  
GTACGCACTTCTGGGGCCAGTTGCCAACTGGGGTCTCCCAATTGCTGCTATCAATGACATGAAGAAATC  
TCCAGAGATTATCAGTGGGCGGATGACTTTCGCCCTCTGTTGCTATTCTCTGACATTCATGAGATTTGCC  
TACAAGGTACAACCCCGAACTGGCTTCTGTTTTCGCTGCCATGTGACAAACGAAGTCGCTCAGCTCATT  
AGGGAGGACGACTTATCAACTACGAGATGAGTAAGCGGCCATCTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR212577 representing NM\_133561  
**Red=Cloning site Green=Tags(s)**

MAGALVRKAADYVRSKDFRDYLMSTHFVGPVANWGLPIAAINDMKKSPEIISGRMTFALCCYSLTFMRFA  
YKVQPRNWLLFACHVTNEVAQLIQGGRLINYEMSKRPSA

**TR**TRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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<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_133561.1</a> , <a href="#">NP_598245.1</a>
<b>RefSeq Size:</b>	901 bp
<b>RefSeq ORF:</b>	330 bp
<b>Locus ID:</b>	171087
<b>UniProt ID:</b>	<a href="#">P63031</a>
<b>Cytogenetics:</b>	1q12
<b>MW:</b>	12.5 kDa
<b>Gene Summary:</b>	may be involved in apoptosis of neuronal cells [RGD, Feb 2006]