

## Product datasheet for **RR203920**

### Otc (NM\_013078) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Otc (NM\_013078) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Otc  
**Synonyms:** MGC108742  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR203920 representing NM\_013078  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCTGTCTAATTTGAGGATCCTGCTCAACAAGGCAGCTCTTAGAAAGGCTCACACTTCCATGGTTCGAA  
ATTTTCGGTATGGGAAGCCAGTCCAGAGTCAAGTACAGCTGAAAGGCCGTGACCTCCTCACCTGAAGAA  
CTTCACAGGAGAGGAGATTCAGTACATGCTATGGCTCTCTGCAGATCTGAAATTCAGGATCAAACAGAAA  
GGAGAATACTTGCTTTATTGCAAGGAAATCCTTAGGGATGATTTTTGAGAAAAGAACTACTCGAACAA  
GACTGTCCACAGAAACAGGCTTCGCTCTCTGGGAGGACATCCTTCTTTCTTACCACACAAGACATTCA  
CTTGGGCGTGAATGAAAGTCTCACAGACACAGCTCGTGTGTTATCTAGCATGACAGATGCAGTGTAGCT  
CGAGTGTATAACAATCAGATCTGGACATCCTGGCTAAGGAAGCAACCATCCCAATTGTCAACGGACTGT  
CAGACCTGTATCATCCTATCCAGATCCTGGCTGATTACCTTACACTCCAGGAACACTATGGCTCTCTCAA  
AGGTCTCACCTCAGCTGGATAGGAGATGGGAACAATATCCTGCACTCCATCATGATGAGTGTGCAAAA  
TTCGGGATGCACCTTCAAGCAGTACTCCAAAGGGTTATGAGCCAGATCCTAATATAGTCAAGCTAGCAG  
AGCAGTATGCCAAGGAGAATGGTACCAGTTGTCAATGACAAATGATCCACTGGAAGCAGCAGCTGGAGG  
CAATGTATTAATTACAGATACTTGATAAGCATGGGACAAGAGGATGAGAAGAAAAGCGTCTTCAAGCT  
TTCCAAGTTACCAGTTACAATGAAGACTGCTAAAGTGCTGCGTCTGACTGGACGTTTTTACACTGCT  
TGCTTAGAAAGCCAGAAGAAGTAGATGATGAAGTGTTTTATTCTCCGCGGTATTAGTGTCCAGAGGC  
AGAAAATAGAAAGTGGACAATCATGGCTGTCATGGTATCCCTGCTGACAGACTACTCACCTGTGCTCCAG  
AAGCCAAAGTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR203920 representing NM\_013078  
 Red=Cloning site Green=Tags(s)

MLSNLRILLNKAALRKAHTSMVRNFRYGKPVQSQVQLKGRDLLTLKNFTGEEIQYMLWLSADLKFRKQK  
 GEYLP LLQKSLGMIFEKRSTRTRLSTETGFALLGGHPSFLTQDIHLGVNESLTDARVLSMSTDAVLA  
 RVYKQSDLDILAKEATIPVNGLSDLYHP IQILADYLT LQEHYGLKGLT LSWIGDGNLILHSIMMSAAK  
 FGMHLQAATPKGYEPDPNIVKLAEQYAKENGR L SMTNDPLEAARGGNV LITDTWISMGQEDEKKRLQA  
 FQGYQVTMKTAKVAASDWTF L HCLPRKPEEVDDEVFYSRSLVFPEAENRKWTIMAVMVSLLTDYSPVLQ  
 KPKF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

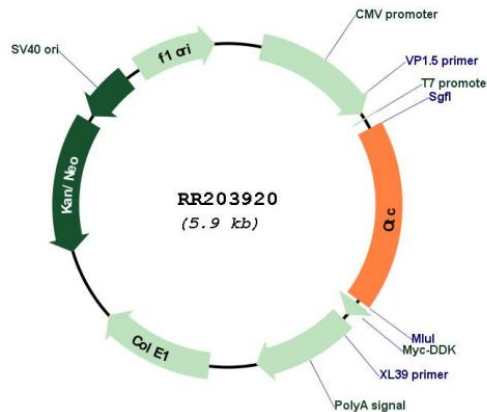
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_013078

<b>ORF Size:</b>	1062 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_013078.1</a> , <a href="#">NP_037210.1</a>
<b>RefSeq Size:</b>	1519 bp
<b>RefSeq ORF:</b>	1065 bp
<b>Locus ID:</b>	25611
<b>UniProt ID:</b>	<a href="#">P00481</a>
<b>Cytogenetics:</b>	Xq12
<b>MW:</b>	39.9 kDa
<b>Gene Summary:</b>	catalyzes the conversion of L-ornithine to L-citrulline [RGD, Feb 2006]