

Product datasheet for MR205336

Otc (BC024893) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Otc (BC024893) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Otc
Synonyms:	A1265390; Sf; spf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205336 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGTCTAATTTGAGGATCCTGCTCAACAATGCAGCTCTTAGAAAGGGTCACACTTCTGTGGTTCGAC
ATTTTTGGTGTGGGAAGCCAGTCCAAAGTCAAGTACAGCTGAAAGGCCGTGACCTCCTCACCTTGAAGAA
CTTCACAGGAGAGGAGATTCACTACATGCTATGGCTCTCTGCAGATCTGAAATTCAGGATCAAGCAGAAA
GGAGAATATTTACCTTTATTGCAAGGAAATCCTTAGGAATGATTTTTGAGAAAAGAAGTACTCGAACAA
GACTGTCCACAGAAACAGGCTTTGCTCTGCTGGGAGGACACCCTTCTTTCTTACCACACAAGACATTCA
CTTGGGTGTGAATGAAAGTCTCACAGACACCGCTCGTGTCTTATCTAGCATGACAGATGCAGTGTAGCT
CGAGTGTATAAACAATCAGATCTGGACACCCTGGCTAAAGAAGCATCCATCCCAATTGTCAATGGACTGT
CAGACTTGTATCATCCTATCCAGATCCTGGCTGATTACCTTACACTCCAGGAACACTATGGCTCTCTCAA
AGGTCTTACCCTCAGCTGGATAGGGGATGGGAACAATATCTTGCCTCTATCATGATGAGTGTGCAAAA
TTCGGGATGCACCTTCAAGCAGCTACTCCAAAGGGTTATGAGCCAGATCCTAATATAGTCAAGCTAGCAG
AGCAGTATGCCAAGGAGAATGGTACCAAGTTGTCAATGACAAATGATCCACTGGAAGCAGCACGTGGAGG
CAATGTATTAATTACAGATACTTGATAAGCACTGGCAAGAGGATGAGAAGAAAAGCGTCTTCAAGCT
TTCCAAGGTTACCAGGTTACGATGAAGACTGCCAAAGTGGCTGCGTCTGACTGGACATTTTTACACTGTT
TGCCTAGAAAGCCAGAAGAAGTGGATGATGAAGTATTTTATTCTCCACGGTCATTAGTGTCCAGAGGC
AGAGAATAGAAAGTGGACAATCATGGTCTCACTGAGATCTCACCATGCCCTTGCCTTGGATCACTCTTC
TTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205336 protein sequence
 Red=Cloning site Green=Tags(s)

MLSNLRILLNNAALRKGHTSVVRHFVWCGKPVQSQVQLKGRDLLTLKNFTGEEIQYMLWLSADLKFRKQK
 GEYLPLQKGKSLGMIFEKRSTRTRLSTETGFALLGGHPSFLTQDIHLGVNESLTDARVLSMMDAVLA
 RVYKQSDLDLTAKEASIPVINGLSDLYHP IQILADYLT LQEHYGLKGLTL SWIGDGNLILHSIMMSAAK
 FGMHLQAATPKGYEPDPNIVKLAEQYAKENGT KLSMTNDPLEAARGGNVLI TDTWISMGQEDEKKRLQA
 FQGYQVTMKTAKVAASDWTF LHLCLPRKPEEVDDEVFYSRSLV FPEAENRKWTIMVSLRSHHAPCLGSLF
 L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC024893

ORF Size: 1053 bp

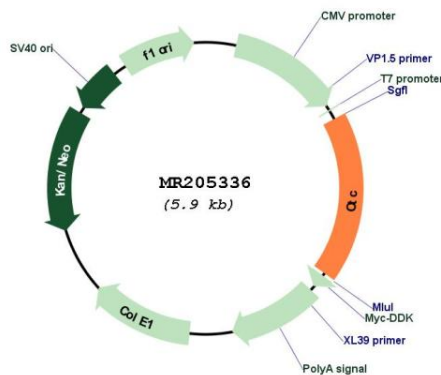
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

- Components:** 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).
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 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.
- RefSeq:** [BC024893](#), [AAH24893](#)
- RefSeq Size:** 3011 bp
- RefSeq ORF:** 1055 bp
- Locus ID:** 18416
- Cytogenetics:** X 4.66 cM
- MW:** 39.4 kDa
- Gene Summary:** Catalyzes the second step of the urea cycle, the condensation of carbamoyl phosphate with L-ornithine to form L-citrulline. The urea cycle ensures the detoxification of ammonia by converting it to urea for excretion.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205336