

Product datasheet for **MG205336**

Otc (BC024893) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Otc (BC024893) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Otc
Synonyms:	A1265390; Sf; spf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205336 representing BC024893 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTCTAATTTGAGGATCCTGCTCAACAATGCAGCTCTTAGAAAGGGTCACACTTCTGTGGTTCGAC
ATTTTTGGTGTGGGAAGCCAGTCCAAAGTCAAGTACAGCTGAAAGGCCGTGACCTCCTCACCTTGAAGAA
CTTCACAGGAGAGGAGATTACAGTACATGCTATGGCTCTCTGCAGATCTGAAATTCAGGATCAAGCAGAAA
GGAGAATATTTACCTTTATTGCAAGGAAATCCTTAGGAATGATTTTTGAGAAAAGAAGTACTCGAACAA
GACTGTCCACAGAAACAGGCTTTGCTCTGCTGGGAGGACACCCTTCCTTTCTTACCACACAAGACATTCA
CTTGGGTGTGAATGAAAGTCTCACAGACACCGCTCGTGTCTTATCTAGCATGACAGATGCAGTGTAGCT
CGAGTGTATAAACAATCAGATCTGGACACCCTGGCTAAAGAAGCATCCATCCCAATTGTCAATGGACTGT
CAGACTTGTATCATCCTATCCAGATCCTGGCTGATTACCTTACACTCCAGGAACACTATGGCTCTCTCAA
AGGTCTTACCCTCAGCTGGATAGGGGATGGGAACAATATCTTGCCTCTATCATGATGAGTGTGCAAAA
TTCGGGATGCACCTTCAAGCAGCTACTCCAAAGGGTTATGAGCCAGATCCTAATATAGTCAAGCTAGCAG
AGCAGTATGCCAAGGAGAATGGTACCAAGTTGTCAATGACAAATGATCCACTGGAAGCAGCACGTGGAGG
CAATGTATTAATTACAGATACTTGATAAGCATGGGACAAGAGGATGAGAAGAAAAGCGTCTTCAAGCT
TTCCAAGGTTACCAGGTTACGATGAAGACTGCCAAAGTGGCTGCGTCTGACTGGACATTTTTACACTGTT
TGCTAGAAAGCCAGAAGAAGTGGATGATGAAGTATTTTATTCTCCACGGTCATTAGTGTCCAGAGGC
AGAGAATAGAAAGTGGACAATCATGGTCTCACTGAGATCTCACCATGCCCTTGCCTTGGATCACTCTTC
TTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205336 representing BC024893
 Red=Cloning site Green=Tags(s)

MLSNLRILLNNAALRKGHTSVVRHFVWCGKPVQSQVQLKGRDLLTLKNFTGEEIQYMLWLSADLKFRKQK
 GEYLPLLQKSLGMI FEKRSTRTRLSTETGFALLGGHPSFLTQDIHLGVNESLTDARVLSMSTDAVLA
 RYVKQSDLDLAKIASIPVNGLSLYHP IQILADYLT LQEHYGLKGLT LSWIGDGNLHLSIMMSAAK
 FGMHLQAATPKGYEPDPNIVKLAEQYAKENGT KLSMTNDPLEAARGGNVLI TDTWISMGQEDEKRLQA
 FQGYQVTMKTAKVAASDWTFLHCLPRKPEEVDDEVFYSRSLVFPEAENRKWTIMVSLRSHHAPCLGSLF
 L

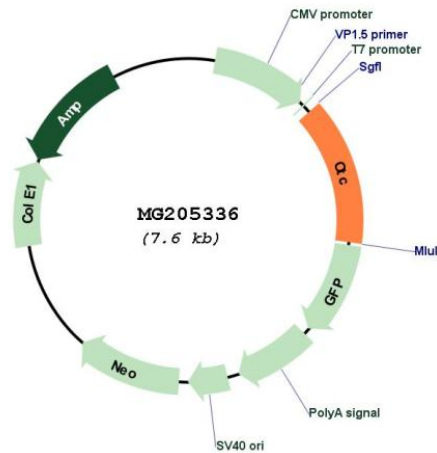
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC024893

ORF Size:	1055 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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
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]