

Product datasheet for **MG204850**

AI790298 (BC023699) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AI790298 (BC023699) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AI790298
Synonyms:	AI790298; Atpgd1; mKIAA1394
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204850 representing BC023699 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGTGCTTGGCAAAGCAGAAGAGCCGCACACAGCTACATCTGTTGCGGTGCCAGGGCCACCTGGCCTT
CGACCTCTCTCCATGCTGTGGCCTGTTGCCATTGGAGAATGAGGCTGATGTGGAGAGAGCCATTTACCA
GGTACCCCTGCCAGGTGTGATGAACTGGAATTTGGGTCAGGAGCAGTAGGCGTGACGCTGGTGAAGGAT
GGGCCTCAGTGCCGTGAGCACTTTCCCGGATCCTCCATGACCTGCAGGGTGAGGCTGACCACCCTGGCA
TCGGGCTGGGCTGGGCAATGCTATGCTGCTGATGGAGTTTGTGAGGGCACAGAGCATGACGTGGACCT
GGTGGTGTTCGGTGGACGGTTGCTGGCTGCTTTCTGCTCCGATAATGGCCCCACAAGGCTGCCTGGCTTC
ACAGAGACTGCAGCCTGCATGCCCACTGGGCTAGCACCAGAGCAGGAGGCCAGATGGTGCAGGCAGCCT
TTCGCTGCTGCCTGGGCTGTGGGCTGCTGGATGGGGTTTTCAATGTGGAGCTCAAGATGACTGGGCTGG
GCCAAGGCTCATCGAGATTAACCCTCGAATGGGAGGCTTCTACCTTCGAGACTGGATCCTAGAGCTCTAT
GGTGTGGATTGCTTCTGGCTTCTACAATGGTGGCCTGTGGCCTGCAGCCTGCCTTGCTGCTCACCCCTC
GTGCCCCGTGGCTACCTAGTGGGCATCATGTGCCTGGTGTCCCAGCACCTACAGCTGCTGAGTTCCCCGAG
CAGTAGAGAGACTCTGCAAACCTCCATGACCAGGGGCAATTACGACTCAACCTGCTGGAGGAGGCCCTG
ATACCTGGCCAGTATGAGGAGCCCTACTGCAATGTGGCCTGTGCTGGGCCAGCCCTGCTGAGGCCCTGTC
ACCGCCTGCTAGGCATCTGTGAGGCTTGGGCATTGACAGGCCCACTACCCTGTTGCCCATTTCTCTGTC
TCATTTCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204850 representing BC023699
Red=Cloning site Green=Tags(s)

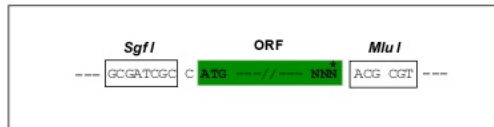
MCLAKQKSRTQLHLLRCQPPWPSTSLHAVACCPLENEADVERAIYQVPLPGVMKLEFGSGAVGVQLVKD
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 TETAACMPTGLAPEQEAQMVQAAFRCCLCGLLDGVFNVELKMTGAPRLIEINPRMGFFYLWDWILELY
 GVDLLLASTMVACGLQPALPAHPRARGYLVGIMCLVSQHLQLLSSPSSRETLQTLHDQGLRLNLLEEAL
 IPGQYEEPYCNVACAGPSPAEACHRLLGICQGLGIDRPNYPVAHFLLSHFK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGCGCGCCAGATCT

EcoRI *BamHI* *KpnI* *RBS* *Kozac Consensus* *SgfI* *AscI*

CAAGCTTAAGTACTAGTAGCGGACCG *MluI* *NotI* *XhoI* *GFP Tag*

ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC

T R T R P L E M E S D - - -

PmeI *FseI*

--- GAA GAA AGA GTT TAA ACGGCGGCGCGGAGCT

- - E E R V Stop

ACCN: BC023699

ORF Size: 990 bp

OTI Disclaimer: 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC023699](#), [AAH23699](#)

RefSeq Size: 2395 bp

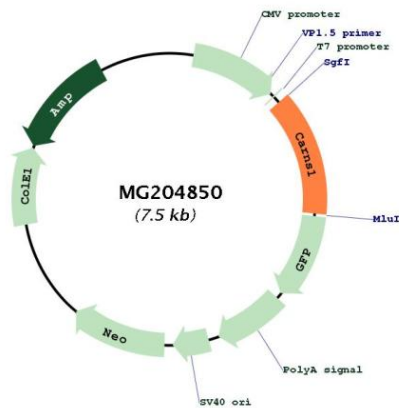
RefSeq ORF: 992 bp

Locus ID: 107239

Cytogenetics: 19 A

Gene Summary: Catalyzes the synthesis of carnosine and homocarnosine. Carnosine is synthesized more efficiently than homocarnosine.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204850