

Product datasheet for **MG210616**

Aco2 (NM_080633) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aco2 (NM_080633) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aco2
Synonyms:	Aco-2; Aco3; D10Wsu183e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210616 representing NM_080633
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCCTTACAGCCTCCTGGTCACCCGGCTGCAGAAGGCCCTGGGTGTGCGGCAGTACCATGTGGCCT
 CTGTCCTGTGCCAACGGGCAAGGTGGCCATGAGCCATTTTGGCCAGTGAGTACATCCGATATGACCT
 GCTAGAGAAGAACATTAACATTGTCCGTAACCGTTGAACCGCCCTTACTCTCTCAGAGAAGATTGTA
 TATGGACACCTGGATGACCCAGCCAACCAGGAGATCGAGCGGGAAAGACATACCTGCGTTTACGGCCCG
 ACCGGGTGGCCATGCAGGATGCCACAGCCAGATGGCTATGCTACAGTTCATTAGCAGTGGGCTGCCTAA
 GGTGGCTGTACCATCAACATCCACTGTGATCATCTGATTGAGGCCAGGTTGGGGTGAGAAAGACCTG
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 GACCCAGGAGACCATCCTCCTGAACCACACCTTCAACGAGACCCAGATCGAGTGGTCCGTGCAGGCAGT
 CCCCTCAACAGGATGAAGGAGCTGCAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210616 representing NM_080633
Red=Cloning site Green=Tags(s)

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MAPYSLLVTRLQKALGVRQYHVASVLCQRAKVAMSHFEPSEYIRYDLLEKNINIVRKRLNRPLTLEKIV
YGHLDSPANQEIERGKTYLRLRPDRVAMQDATAQMAMLQFISSGLPKVAVPSTIHCDHLIEAQVGGKDL
RRAKDINQEVYNFLATAGAKYGVGFWRPGSGIIHQIILENYAYPGVLLIGTDSHTPNGGLGGICIGVGG
ADAVDVMAGIPWELKCPKVIGVKL TGSLSGWTSPKDVILKVAGILTVKGGTGAIVEYHGPVDSISCTGM
ATICNMGAEIGATTSVFPYNHRMKKYL SKTGRTDIANLAEFEKDHLPDPGCGYDQVIEINLNELKPHIN
GPFTPDLAHPVADVGTVAEKEGWPLDIRVGLIGSCTNSSYEDMGRSAAVAKQALAHGLKCKSQFTITPGS
EQIRATIERDGYAQILRDVGGIVLANACGPCIGQWDRKDIKKGEKNTIVTSYNNRFTGRNDANPETHAFV
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SVRNAVTQEFGPVPTARYYKKGIRWVVI G DENYEGSSREHAAL EPRHLGGRAIITKSFARIHETNLK
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ALNRMKELQQ
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080633

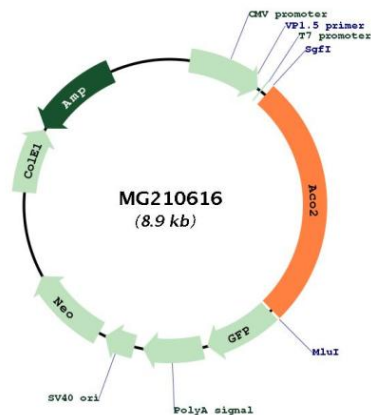
ORF Size: 2340 bp

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:	<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:	NM_080633.2 , NP_542364.1
RefSeq Size:	2785 bp
RefSeq ORF:	2343 bp
Locus ID:	11429
UniProt ID:	Q99K10
Cytogenetics:	15 E1
Gene Summary:	Catalyzes the isomerization of citrate to isocitrate via cis-aconitate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210616