

Product datasheet for **MR210616**

Aco2 (NM_080633) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aco2 (NM_080633) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aco2
Synonyms:	Aco-2; Aco3; D10Wsu183e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210616 representing NM_080633
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGCCTTACAGCCTCCTGGTCACCCGGCTGCAGAAGGCCCTGGGTGTGCGGCAGTACCATGTGGCCT
CTGTCCTGTGCCAACGGGCAAGGTGGCCATGAGCCATTTTGGCCAGTGAGTACATCCGATATGACCT
GCTAGAGAAGAACATTAACATTGTCCGTAACCGTTGAACCGCCCTTACTCTCTCAGAGAAGATTGTA
TATGGACACCTGGATGACCCAGCCAACCAGGAGATCGAGCGGGAAAGACATACCTGCGTTTACGGCCCG
ACCGGGTGGCCATGCAGGATGCCACAGCCAGATGGCTATGCTACAGTTCATTAGCAGTGGGCTGCCTAA
GGTGGCTGTACCATCAACATCCACTGTGATCATCTGATTGAGGCCAGGTTGGGGTGAGAAAGACCTG
CGCAGGGCCAAGGACATAAACCAGGAAGTATAAATTCCTGGCAACTGCAGGTGCCAAGTATGGTGTGG
GCTTCTGGAGGCCTGGATCTGGGATCATCACCAGATCATTCTAGAAAATATGCATACCCTGGAGTTCT
TCTGATCGGCACTGATTCGCACACCCCAATGGTGGTGGCCTGGGAGGCATCTGCATTGGAGTAGGGGT
GCTGATGCTGTGGATGTCATGGCTGGGATCCCCTGGGAGCTGAAGTGTCCAAGGTGATCCGGTGTGAAGC
TGACAGGCTCCCTCTCTGGTGGACCTCACCAAGATGTGATCCTGAAAGTGGCAGGTATCCTCACGGT
GAAAGGTGGCACAGGTGCTATTGTGGAATACCACGGACCCGGTGTGCGATTCATCTCCTGCACTGGCATG
GCAACTATCTGCAACATGGGTGCAGAAATGGGGCCACTACGTGAGTGTCCCATACAACCACAGGATGA
AAAAGTACCTGAGCAAGCAGGCCGAACAGACATTGCCAACCTAGCAGAAGAATCAAGGATCACTTAGT
GCCTGATCCTGGCTGCCAGTATGACCAAGTATTGAAATTAACCTCAATGAGCTAAAGCCACATATCAAT
GGGCCCTTACCCTGACTTGGCTCACCCAGTGGCAGATGTGGGACTGTGGCAGAGAAGGAAGGCTGGC
CTCTGGACATCAGAGTAGGTTTATTGGCAGCTGCACCAATTCAAGCTATGAGGACATGGGACGATCAGC
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GAGCAGATCCGTGCCACTATTGAGCGGGATGGCTATGCACAGATCTTAAGGGATGTGGGTGGAATCGTTT
TGGCAATGCCTGTGGCCCTTGATCGGCCAGTGGGACAGAAAAGACATCAAGAAGGGGGAGAAGAATAC
AATCGTCACTCTTACAACAGGAACTTACAGGCCGTAATGATGCAAACCTGAGACCCATGCCTTTGTC
ACATCCCAGAGATTGTCACAGCTCTGGCCATTGCAGGAACCTGAAGTTCATCCAGAAACTGACTTCT
TAACAGGCAAGGACGGCAAGAAGTTCAGTGGAGGCTCCAGATGCAGACGAGCTTCCCCGATCGGACTT
TGATCCAGGGCAGGACACATACCAGCACCCCTAAGGACAGCAGTGGGACGGCAAGACCTCGAGGACCTGCAA
ACCAGCCAGCGCCTGCAGCTCCTGGAGCCTTTCGACAAGTGGGACGGCAAGACCTCGAGGACCTGCAA
TCCTCATCAAGGTCAAAGGGAAGTGCACCACAGACCACATTTCTGCTGCCGGCCCTGGCTCAAGTCCG
TGGCATCTGGATAACATCTCTAACAACCTGCTCATCGGTGCCATCAACATCGAAAATGGCAAAGCCAAC
TCTGTACGCAATGCTGTACCCAGGAGTTTGGCCCTGTACCTGACACTGCTCGTACTACAAGAAACATG
GCATCAGGTGGTGGTATTGGAGATGAGAATATGGTGAAGGCTCAAGCCGGGAGCATGCAGCACTGGA
GCCTCGCCACCTTGGGGCCGGGCCATCATACCAAGAGCTTCGCCAGGATCCACGAAACCAATCTAAAG
AAGCAGGGCTTGTGCCCTCACCTTCGCTGACCCCTCCGACTATAACAAGATTCATCCAGTGGACAAGC
TGACCATTCAGGCCTGAAGGACTTTGCCCTGGAAAGCCTCTGAAGTGGTTCATCAAGCACCCCAATGG
GACCCAGGAGACCATCCTCCTGAACCACACCTTCAACGAGACCCAGATCGAGTGGTCCGTGCAGGCAGT
CCCTCAACAGGATGAAGGAGCTGCAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210616 representing NM_080633
Red=Cloning site Green=Tags(s)

MAPYSLLVTRLQKALGVRQYHVASVLCQRAKVAMSHFEPSEYIRYDLLEKNINIVRKRLNRPLTLSEKIV
YGHLDPANQEIERGKTYLRLRPDRVAMQDATAQMAMLQFISSGLPKVAVPSTIHCDHLIEAQVGGKDL
RRAKDINQEVYNFLATAGAKYGVGFWRPGSGIIHQIILENYAYPGVLLIGTDSHTPNGGGLGGICIGVGG
ADAVDVMAGIPWELKCPKVIKVLGTGSLSGWTSKDVILKVAGILTVKGGTGAIVEYHGPVDSISCTGM
ATICNMGAEIGATTSVFPYNHRMCKYLKGTGRDIAFLAEFKDHLVDPGCGYDQVIEINLNELKPHIN
GPFTPDLAHPVADVGTVAEKEGWPLDIRVGLIGSCTNSSYEDMGRSAAVAKQALAHGLKCKSQFTITPGS
EQIRATIERDGYAQILRDVGGIVLANACGPCIGQWRKDIKKGEKNTIVTSYNNRFTGRNDANPETHAFV
TSPEIVTALAIAGTLKFNPETDFLTGKDGKFKLEAPDADELPRSDFDPGQDQTYQHPPKDSGQRVDVSP
TSQRLQLLEPFDKWDGKLEDLQILIKVKGKCTTDHISAAGPWLKFRGHLDNISNLLIGAINIENKAN
SVRNAVTQEFGPVPTARYYKKGIRWVIGDENYEGSSREHAALPRHLGGRAIITKSFARIHETNLK
KQGLLPLTFADPSDYNKIHPVDKLTIQGLKDFAPGKPLKCVIKHPNGTQETILLNHTFNETQIEWFRAGS
ALNRMKELQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9033_g11.zip

Restriction Sites: Sgfl-MluI

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: [NM_080633.2](#), [NP_542364.1](#)

RefSeq Size: 2785 bp

RefSeq ORF: 2343 bp

Locus ID: 11429

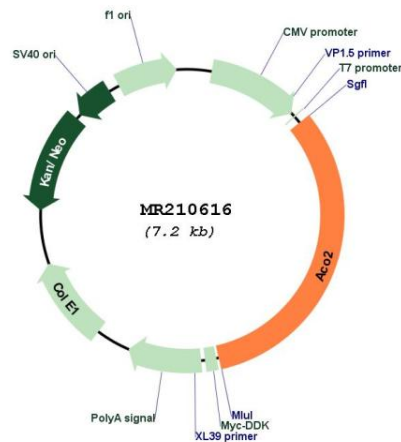
UniProt ID: [Q99K10](#)

Cytogenetics: 15 E1

MW: 85.9 kDa

Gene Summary: Catalyzes the isomerization of citrate to isocitrate via cis-aconitate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210616