

Product datasheet for **RR204198**

Idh1 (NM_031510) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Idh1 (NM_031510) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Idh1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR204198 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGTCCAGAAAAATCCATGGCGGTTCTGTGGTGGAAATGCAAGGAGATGAAATGACACGGATCATCTGGG
AATTGATTAAGAAAAGCTCATTCTCCCTACGTGGAAGTGGATCGCATAGCTATGACTTAGGCATAGA
GAATCGGGATGCCACCAATGACCAGGTCACCAAGGATGCTGCGGAGGCTATAAAGAAATACAACGTCGGC
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CACCCAACGGTACCATCCGGAACATTCTGGCGGCACTGTCTTCAGAGAAGCTATTATCTGCAAAAAAT
CCCCCGGCTAGTGACAGGCTGGGTAACCCATCATCATTGGCCGACACGCCTATGGGGACCAATACAGA
GCAACAGATTTCTGTTGTTCTGGCCTGAAAAAGTAGAGATAACCTACACACCAAAAGATGGGTCCGAGA
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GTCAATTGAAGATTTGACACAGTTCTTCCAATGGCTCTGTGGAAGGCTGGCCTTTGTATCTAAGC
ACCAAGAACACTATTCTGAAGAAGTATGATGGACGCTTCAAAGACATCTCCAGGAGATCTATGACAAGC
AATACAAGTCCAAGTTTGAAGCTCAGAAGATCTGGTATGAACACAGGCTCATAGATGACATGGTGGCCCA
GGCTATGAAATCAGAAGGAGGCTTCATCTGGCCTGTAAGAAGTATGATGGTATGTGCAGTCAGACTCA
GTAGCCCAAGGTTATGGCTCCCTTGGCATGATGACCAGTGTGCTGATTTGTCCAGATGGTAAAGACGGTAG
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GAGCTCAGCTTCTTTGCAATGCTTTGGAAGAAGTCTGCATTGAGACCATTGAGGCTGGCTTTATGACTA
AGGACTTGGCTGCTTGCATTAAGGCTTACCCAATGTACAGCGTCTGACTACTTGAATACATTTGAGTT
TATGGACAACTTGAGAAAACTTGAAGGCCAACTAGCTCAGGCCAACTT

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ACAAGGATGACGACGATAAGGTTTAA



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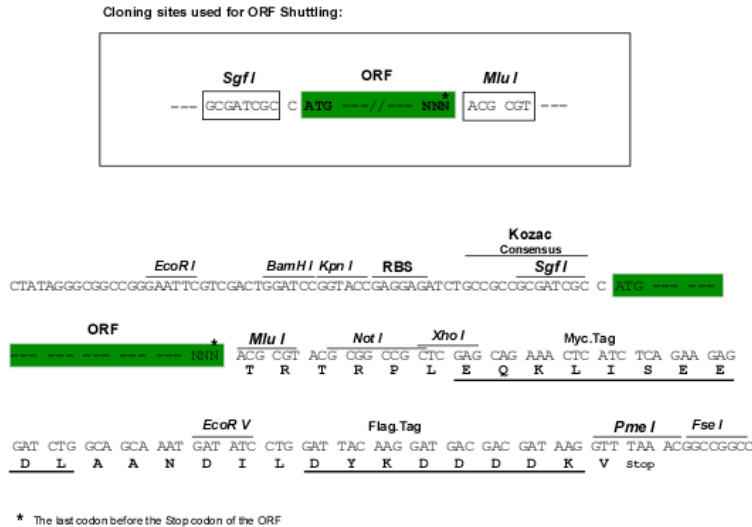
Protein Sequence: >RR204198 protein sequence
Red=Cloning site Green=Tags(s)

MSRKIHGGSVVEMQGDEMTRIIWELIKEKLILPYVELDLHSYDLGIENRDATNDQVTKDAAEAIKKYNVG
 VKCATITPDEKRVVEFKLKQMWKSPNGTIRNILGGTVFREAIICKNIPRLVTGWVKPIIIGRHAYGDQYR
 ATDFVVPGPVKVEITYTPKDGSKVITYLVHDFEEGGVAMGMYNQDKSIEDFAHSSFQMALSKGWPLYLS
 TKNTILKKYDGRFKDIFQEIYDKQYKSKFEAQKIWYEHRLIDDMVAQAMKSEGGFIWACKNYDGDVQSDS
 VAQGYGSLGMMTSVLIPC DGKTVEAAHGTVTRHYRMYQKGQETSTNPIASIFAWSRGLAHRAKLDNNT
 ELSFFANALEEVC IETIEAGFMTKDLAACIKGLPNVQRSDYLNTFFEMDKLGENLKAKLAQAKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031510

ORF Size: 1242 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.

RefSeq: [NM_031510.1](#), [NP_113698.1](#)

RefSeq Size: 1719 bp

RefSeq ORF: 1245 bp

Locus ID: 24479

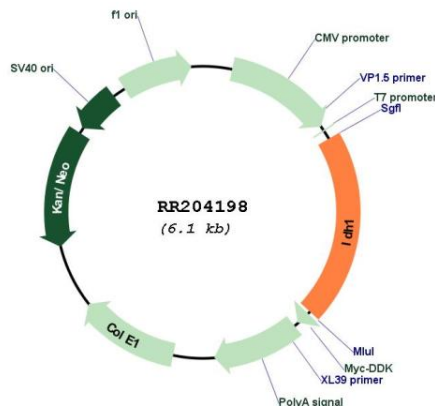
UniProt ID: [P41562](#)

Cytogenetics: 9q32

MW: 46.7 kDa

Gene Summary: catalyzes oxidative decarboxylation of citrate; cytosolic NADP⁺-dependent isozyme [RGD, Feb 2006]

Product images:



Circular map for RR204198