

Product datasheet for MR217871

Idh1 (NM_010497) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Idh1 (NM_010497) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Idh1
Synonyms:	AI314845; AI788952; E030024J03Rik; Id-1; Idh-1; Idpc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217871 representing NM_010497 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCAGAAAAATCCAAGGAGTTCTGTGGTGGAGATGCAAGGAGATGAAATGACACGAATCATTGGG
AATTGATTAAGGAAAACTTATTCTTCCCTATGTGGAAGTGGATCTGCATAGCTATGATTTAGGCATAGA
GAATCGTGATGCCACCAATGACCAGGTCACCAAAGATGCTGCAGAGGCTATAAAGAAATACAACGTGGGC
GTCAAGTGTGCTACCATACCCCGATGAGAAGAGGGTTGAAGAATCAAGTTGAAACAAATGTGGAAT
CCCCAAATGGCACCATCCGAAACATTCTGGGTGGCACTGTCTTCAGGGAAGCTATTATCTGCAAAAATAT
CCCCCGCTAGTGACAGGCTGGGTAACCCATCATCATTGGCCGACATGCATATGGGGACCAATACAGA
GCAACTGATTTTGTGTTCTGGCCTGAAAAAGTAGAGATAACCTACACACCAAAAAGATGGAACCTCAGA
AGGTGACATACATGGTACATGACTTTGAAGAAGTGGTGGTGTGCCATGGGCATGTACAACCAGGATAA
GTCAATTGAAGACTTTGCACACAGTTCCTTCCAAATGGCTCTGTCCAAGGGCTGGCCTTTGTATCTCAGC
ACCAAGAACACTATTCTGAAGAAGTATGATGGGCGTTTCAAAGACATCTCCAGGAGATCTATGACAAGA
AATACAAGTCCCAGTTTGAAGCTCAGAAGATCTGCTATGAACACAGGCTCATAGATGACATGGTGGCCCA
AGCTATGAAGTCCGAGGGAGGCTTCACTGGCCCTGTAAGAATTACGATGGGGATGTGCAGTCAGACTCA
GTCGCCCAAGTTATGGCTCCCTTGGCATGATGACCAGTGTGCTGATTTGTCCAGATGGTAAAGACGGTAG
AAGCAGAGGCTGCCCATGGCACTGTACACGTCCTACTACCGCATGTACCAGAAAGGCAAGAGACGTCCAC
CAACCCATTGCTTCCATTTTGTCTGGTCCCGAGGGTTAGCCACAGAGCAAAGCTTGATAACAATACT
GAGCTCAGCTTCTCGCAAAGGCTTTGGAAGACGTCTGCATTGAGACCATTGAGGCTGGCTTTATGACTA
AGGACTTGGCTGCTTGCATTAAGGCTTACCCAATGTACAACGTTCTGACTACTTGAATACATTTGAGTT
TATGGACAAAATGGAGAAAATGAAGGCCAAATTAGCTCAGGCCAACTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217871 representing NM_010497
Red=Cloning site Green=Tags(s)

MSRKIQGGSVVEMQGDGMTRIIWELIKEKLILPYVELDLHSYDLGIENRDATNDQVTKDAAEAIKKNVVG
 VKCATITPDEKRVVEFKLKQMWKSPNGTIRNILGGTVFREAIIICKNIPRLVTGWVKPIIIGRHAYGDQYR
 ATDFVVPKPKVEITYTPKDGTKVVTYMHVDFEEGGVAMGMYNQDKSIEDFAHSSFFQMALSKGWPLYLS
 TKNTILKKYDGRFKDIFQEIYDKKYKSQFEAQKICYEHLRIDDMVAQAMKSEGGFIWACKNYDGDVQSDS
 VAQGYGSLGMMTSVLICPDGKTVEAAHGTVTRHYRMYQKGQETSTNPIASIFAWSRGLAHRAKLDNNT
 ELSFFAKALEDVCIETIEAGFMTKDLAACIKGLPNVQRSDYLNTFFEMDKLGENLKAKLAQAKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010497

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_010497.3](#), [NP_034627.3](#)

RefSeq Size: 2270 bp

RefSeq ORF: 1245 bp

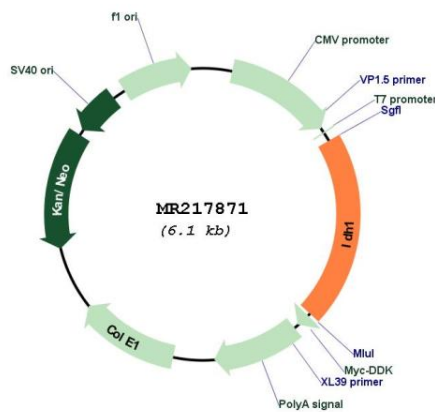
Locus ID: 15926

UniProt ID: [O88844](#)

Cytogenetics: 1 32.91 cM

MW: 46.7 kDa

Product images:



Circular map for MR217871