

Product datasheet for MR205632

Idh3a (NM_029573) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Idh3a (NM_029573) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Idh3a
Synonyms: 1110003P10Rik; 1500012E04Rik; AA407078; AI316514
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR205632 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGGGTCCGCGTGGGTGTCCAAGGTCTCTCGGCTGCTGGGTGCATTCCACAACACAAAACAGGTGA
 CAAGAGGTTTTGCTGGTGGTGTTCAGACAGTAACCTTAATTCCTGGAGATGGAATTGGCCAGAAATTC
 AGCCTCAGTCATGAAGATTTTTGATGCTGCCAAGCACCTATTCAGTGGGAGGAGCGCAATGTCACAGCA
 ATCAAGGACCAGGAGGAAAGTGGATGATCCCTCCAGAAGCCAAGGAGTCCATGGATAAGAACAAGATGG
 GCTTGAAAGGCCCACTAAAGACCCCAATAGCCGCTGGCCATCCATCTATGAATCTGTTGCTTCGTAAGAC
 ATTTGACCTTTATGCCAATGTCCGGCCATGTGTCTCAATTGAAGTTATAAAACCCCTTACACGGATGTA
 AATATCGTCACCATCCGAGAGAACACGGAAGGAGAATACAGTGAATTGAGCATGTGATCGTTGATGGGG
 TTGTGCAGAGCATCAAGCTCATACCGAAGAAGCAAGCAAGCGCATTGCAGAGTTTGCCTTCGAGTACGC
 TCGGAACAACCACCGGAGCAACGTACAGCTGTGCACAAAGCTAACATCATGAGGATGTCAGATGGGCTC
 TTTCTGCAAAAATGCAGGGAAGTTGCGGAGAACTGTAAGACATTAATTTAACGAGATGTACCTTGATA
 CTGTATGTTTAAATATGGTACAAGACCCATCCCAGTTTGTGTTCTTGTGCATGCCAAATTTATACGGAGA
 CATCCTTAGTGATCTGTGTGCAGGACTGATTGGAGGTCTTGGGGTACTCCAAGTGGCAATATTGGAGCC
 AACGGTGTGCCATCTTTGAATCGTTCATGGAACAGCCCCGGACATTGCAGGCAAGGACATGGCCAACC
 CCACGGCCCTCCTGCTTAGTGCTGTGATGCTTCGCCACATGGGACTTTTTGACCATGCAGCAAAAAT
 CGAGGCTGCATGTTTTGCTACAATTAAGGATGGAAGAGCTTAACAAAAGATCTGGGAGGCAACGCGAAG
 TGCTCTGACTTCACAGAAGAAATCTGTCGTAGAGTCAAAGACTTAGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205632 protein sequence
Red=Cloning site Green=Tags(s)

MAGSAWVSKVSRLLGAFHNTKQVTRGFAGGVQTVTLIPGDGIGPEISASVMKIFDAAKAPIQWEERNVTA
 IQGPGGKWMIPPEAKESMDKNMGLKGPLKTPIAAGHPSMNLRLRKTFDLYANVRPCVSIIEGYKTPYTDV
 NIVTIRENTEGEYSGIEHVIVDGVVQSIKLITEEASKRIAEFAFEYARNNHRSNVTAVHKANIMRMSDGL
 FLQKCREVAENCKDIKFNEMYLDTVCLNMVQDPSQFDVLMVPMNL YGDILSDL CAGLIGGLVTPSGNIGA
 NGVAIFESVHGTAPDIAGKDMANPTALLLSAVMMLRHMGLFDHAAKIEAACFATIKDGKSLTKDLGGNAK
 CSDFTTEICRRVKDLD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_029573

ORF Size: 1101 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_029573.2](#), [NP_083849.1](#)

RefSeq Size: 2418 bp

RefSeq ORF: 1101 bp

Locus ID: 67834

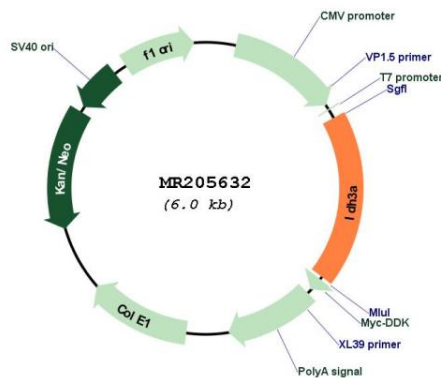
UniProt ID: [Q9D6R2](#)

Cytogenetics: 9 A5.3

MW: 39.6 kDa

Gene Summary: Catalytic subunit of the enzyme which catalyzes the decarboxylation of isocitrate (ICT) into alpha-ketoglutarate. The heterodimer composed of the alpha (IDH3A) and beta (IDH3B) subunits and the heterodimer composed of the alpha (IDH3A) and gamma (IDH3G) subunits, have considerable basal activity but the full activity of the heterotetramer (containing two subunits of IDH3A, one of IDH3B and one of IDH3G) requires the assembly and cooperative function of both heterodimers.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205632