

Product datasheet for **RR204014**

Idh2 (NM_001014161) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Idh2 (NM_001014161) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Idh2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR204014 representing NM_001014161 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGCTATCTGCGGGCCGTGAGCTCGCTCTGCAGAGCCTCGGGCTCAACACGGACCTGGGCACCGG
CTGCACTGAATGTCCCCAGCTGGCCGGAGCAGCCGCGGCCCACTATGCTGAGAAGAGAATCAAGTGGA
GAAGCCGGTGGTGGAGATGGATGGCGATGAGATGACCCGGATCATCTGGCAGTTCATCAAGGAGAAGCTC
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CCCCGATGAGGCCGTGTGGAAGAGTTCAGCTGAAGAAAATGTGGAAGAGCCCTAACGGAATATCCGT
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GCTGCTTCCAGTACTCTATCCAGAAGAAATGGCCGCTCTACTTGAGCACCAAGAACCATTATGAAGGC
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TCTGGAGAAGGTGTCGTGCAGACTGTGGAGAGCGGAGCTATGACCAAGGACCTGGCTGGCTGCATCCAT
GGCCTCAGCAATGTGAAGCTGAATGAGCACTTCTGAACACCACAGACTTCTGGACACCATTAGAGCA
ACCTGGACAGAGCTCTGGCAAGCAG

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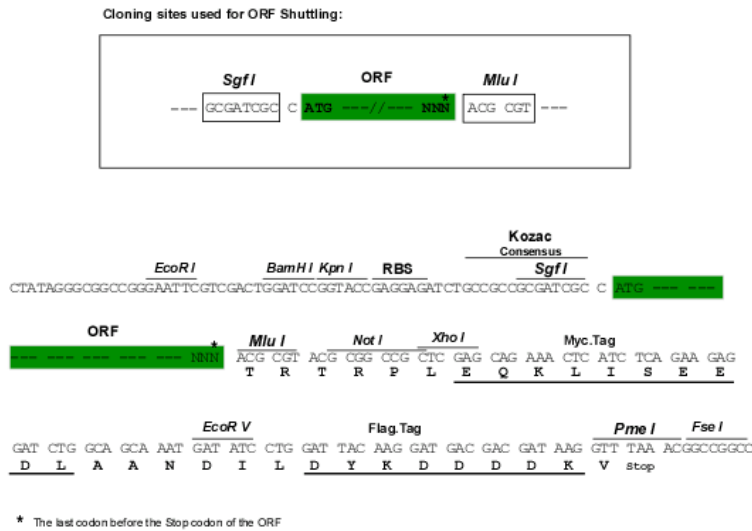
Protein Sequence: >RR204014 representing NM_001014161
 Red=Cloning site Green=Tags(s)

MAGYLRAVSSLCRASGSTRTWAPAALNVPSWPEQPRRHYAEKRIKVEKPVVEMDGDDEMTRIIWQFIKEKL
 ILPHVDVQLKYFDLGLPNRDQTNQVTDLSALATQKYSVAVKCATITPDEARVEEFKLLKMWKSPNGTIR
 NILGGTVFREPIICKNIPRLVPGWTKPITIGRHAHGDQYKATDFVVDRAGMFKLVFVTPKDGSGAKEWEVY
 NFPAGGVGMGYNTDESISGFAHSCFQYSIQKKWPLYLSTKNTIMKAYDGRFKDIFQEIFDKHYKTDGDK
 NKIWIYEHRLIDDMVAQVLKSSGGFVWACKNYDGDVQSDILAQQGFSLGLMTSVLVCPDGKTEAEAAHGT
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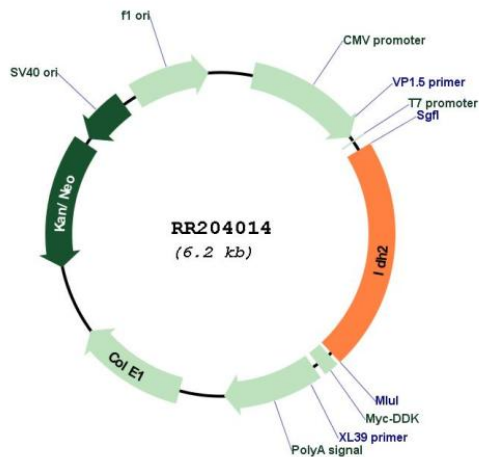
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001014161
ORF Size:	1356 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_001014161.1 , NP_001014183.1
RefSeq Size:	1695 bp
RefSeq ORF:	1359 bp
Locus ID:	361596
UniProt ID:	P56574
Cytogenetics:	1q31
MW:	51 kDa
Gene Summary:	Plays a role in intermediary metabolism and energy production. It may tightly associate or interact with the pyruvate dehydrogenase complex (By similarity).[UniProtKB/Swiss-Prot Function]