

Product datasheet for SC116711

IDH3A (NM_005530) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IDH3A (NM_005530) Human Untagged Clone
Tag:	Tag Free
Symbol:	IDH3A
Synonyms:	RP90
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116711 sequence for NM_005530 edited (data generated by NextGen Sequencing)

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ATGGCTGGGCCCGGTGGATCTCCAAGGTCTCTCGGCTGCTGGGGCATTCCACAACCCA
AAACAGGTGACCAGAGGTTTTACTGGTGGTGTTCAGACAGTAACCTTAATTCCAGGAGAT
GGTATTGGCCAGAAATTCAGCTGCAGTTATGAAGATTTTTGATGCTGCCAAAGCACCT
ATTCAGTGGGAGGAGCGAACGTCAGTCCATTCAAGGACCTGGAGGAAAGTGGATGATC
CCTTCAGAGGCTAAAGAGTCCATGGATAAGAACAAGATGGGCTTGAAAGGCCCTTTGAAG
ACCCCAATAGCAGCCGGTCACCCATCTATGAATTTACTGCTGCGCAAAACATTTGACCTT
TACGCGAATGTCGACCATGTGTCTCTATCGAAGGCTATAAAACCCCTTACACCGATGTA
AATATTGTGACCATTCGAGAGAACACAGAAGGAGAATACAGTGAATTGAGCATGTGATT
GTTGATGGAGTCGTGCAGAGTATCAAGCTCATCACCGAGGGGGCGAGCAAGCGCATTGCT
GAGTTTGCTTTGAGTATGCCCGGAACAACCACCGGAGCAACGTCACGGCGGTGCACAAA
GCCAACATCATGCGGATGTCAGATGGGCTTTTTCTACAAAAATGCAGGGAAGTTGCAGAA
AGCTGTAAGATATTAATTTAATGAGATGTACCTTGATACAGTATGTTTGAATATGGTA
CAAGATCCTTCCCAATTTGATGTTCTTGTATGCCAAATTTGTATGGAGACATCCTTAGT
GACTTGTGTGCAGGATTGATCGGAGGTCTCGGTGTGACACCAAGTGGCAACATTGGAGCC
AATGGGTTGCAATTTTTGAGTCGGTTCATGGGACGGCTCCAGACATTGCAGGCAAGGAC
ATGGCGAATCCCACAGCCCTCCTGCTCAGTGCCGTGATGATGCTGCGCCACATGGGACTT
TTTGACCATGCTGCAAGAATTGAGGCTGCGTGTGTTTGTACAATTAAGGACGGAAGAGC
TTGACAAAAGATTTGGGAGGCAATGCAAAATGCTCAGACTTCACAGAGGAAATCTGTGCG
CGAGTAAAAGATTTAGATTAA

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Clone variation with respect to NM_005530.2
24 t=>c

Restriction Sites: NotI-NotI



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ACCN:	NM_005530
Insert Size:	2600 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	A True Clone.
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_005530.2 , NP_005521.1
RefSeq Size:	2701 bp
RefSeq ORF:	1101 bp
Locus ID:	3419
UniProt ID:	P50213
Cytogenetics:	15q25.1
Domains:	isodh
Protein Pathways:	Citrate cycle (TCA cycle), Metabolic pathways
Gene Summary:	Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent isocitrate dehydrogenases, which localize to the mitochondrial matrix, and two NADP(+)-dependent isocitrate dehydrogenases, one of which is mitochondrial and the other predominantly cytosolic. NAD(+)-dependent isocitrate dehydrogenases catalyze the allosterically regulated rate-limiting step of the tricarboxylic acid cycle. Each isozyme is a heterotetramer that is composed of two alpha subunits, one beta subunit, and one gamma subunit. The protein encoded by this gene is the alpha subunit of one isozyme of NAD(+)-dependent isocitrate dehydrogenase. [provided by RefSeq, Jul 2008]