

Product datasheet for **SC320860**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_005530.2
 CCGAGCCAGGAGGGGAAGCGATGGCTGGGCCCGCGTGGATCTCTAAGGTCTCTCGGCTGC
 TGGGGGCATTCCACAACCCAAAACAGGTGACCAGAGGTTTTACTGGTGGTGTTCAGACAG
 TAACTTTAATCCAGGAGATGGTATTGGCCAGAAATTCAGCTGCAGTTATGAAGATTT
 TTGATGCTGCCAAAGCACCTATTCAGTGGGAGGAGCGGAACGTCACTGCCATTCAAGGAC
 CTGGAGGAAAAGTGGATGATCCCTTCAGAGGCTAAAGAGTCCATGGATAAGAACAAGATGG
 GCTTGAAAAGGCCCTTTGAAGACCCCAATAGCAGCCGGTCACCCATCTATGAATTTACTGC
 TGCGCAAAACATTTGACCTTTACGCGAATGTCCGACCATGTGTCTCTATCGAAGGCTATA
 AAACCCCTTACACCGATGTAAATATTGTGACCATTTCGAGAGAACACAGAAGGAGAATACA
 GTGGAATTGAGCATGTGATTGTTGATGGAGTCGTGCAGAGTATCAAGCTCATCACCAGG
 GGGCGAGCAAGCGCATTGCTGAGTTTGCCTTTGAGTATGCCCGGAACAACCACCGGAGCA
 ACGTCACGGCGGTGCACAAAGCCAACATCATGCGGATGTCAGATGGGCTTTTTCTACAAA
 AATGCAGGGAAGTGCAGAAAGCTGTAAGATATTAATTTAATGAGATGTACCTTGATA
 CAGTATGTTTGAATATGGTACAAGATCCTTCCCAATTTGATGTTCTTGTATGCCAATT
 TGTATGGAGACATCCTTAGTGACTTGTGTGCAGGATTGATCGGAGTCTCGGTGTGACAC
 CAAGTGGCAACATTGGAGCCAATGGGGTTGCAATTTTTGAGTCGGTTCATGGGACGGCTC
 CAGACATTGCAGGCAAGGACATGGCGAATCCCACAGCCCTCTGCTCAGTGCCGTGATGA
 TGCTGCGCCACATGGGACTTTTTGACCATGCTGCAAGAATTGAGGCTGCGTGTGTTTGCTA
 CAATTAAGGACGGAAAGAGCTTGACAAAAGATTTGGGAGGCAATGCAAAATGCTCAGACT
 TCACAGAGGAAATCTGTGCGCCGAGTAAAAGATTTAGATTAACACTTCTACAACGGCATT
 TACATCAGTCACTCTAAATGGACACCACATGAACCTCTGTTTGAATACCTACGTATGTA
 TGCATTTGGTTTGCCTTGTCTTGGACAGTACATTTTAGATCTGGCCTTTTCTTAACAAAA
 TCTGTGCAAAAGATGCAGGTGGATGTCCTAGGTCTGTTTTCAAAGAACTTTTTCCAAGT
 GCTTGTGTTTTATTTAATAAGTGTCTACCTGGTAAATGTTTTTTTTGTAAACTCTGAGTGGA
 CTGTATCATTTGCTATTCTAAACCATTTTACACTTAAGTAAAATAGTTTCTCTTCAGCT
 GTAATAACAGGATACAGAATTAACAAGAGAAAATGTCTAACTTTTTAAGAAAAACCTTA
 TTTTCTTCGGTTTTTGA AAAACATAATGGAAAATAAACAGGATATTGACATAATAGCACA
 AAATGACACTCTCTAAAATAAATGGGCACAAGAGAATTTCTGGGAAAGTTCACATC
 AAAAAGAGTGAATGTGGTATATTTCTAAATGATATGGAAAATAGAGACAGATTTGCCTT
 TACAGAAATTAAGTGTGAATAAAAACTTCAGATCCAAGAAAATATAATGAGAGATA
 TAATTTTTGTTAATAAGACAAAGGTAATATATTGGATACAAGACAAAAAAAAAAAAAAAA
 AAA

Restriction Sites: Please inquire

ACCN: NM_005530

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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<p>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]</p>