

Product datasheet for **SC319226**

IDH2 (NM_002168) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | IDH2 (NM_002168) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | IDH2 |
| Synonyms: | D2HGA2; ICD-M; IDH; IDHM; IDP; IDPM; mNADP-IDH |
| 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_002168.2
 GGCAGCCGGGAGGAGCGGCGCGCTCGGACCTCTCCCGCCTGCTCGTTCGCTCTCCAG
 CTTGGGATGGCCGGCTACCTGCGGGTCGTGCGCTCGCTCTGCAGAGCCTCAGGCTCGCGG
 CCGGCCTGGGCGCCGGCGGCCCTGACAGCCCCACCTCGCAAGAGCAGCCGCGGCCAC
 TATGCCGACAAAAGGATCAAGGTGGCGAAGCCCGTGGTGGAGATGGATGGTGATGAGATG
 ACCCGTATTATCTGGCAGTTCATCAAGGAGAAGCTCATCCTGCCCCACGTGGACATCCAG
 CTAAGATATTTTACCTCGGGTCCCAAACCGTGACCAGACTGATGACCAGGTCACCATT
 GACTCTGCACTGGCCACCCAGAAGTACAGTGTGGCTGTCAAGTGTGCCACCATCACCCCT
 GATGAGGCCCGTGTGGAAGAGTTCAAGCTGAAGAAGATGTGAAAAAGTCCAATGGAAC
 ATCCGGAACATCCTGGGGGGACTGTCTTCCGGGAGCCCATCATCTGCAAAAACATCCCA
 CGCCTAGTCCCTGGCTGGACCAAGCCCATCACCATTGGCAGGCACGCCATGGCGACCAG
 TACAAGGCCACAGACTTTGTGGCAGACCGGGCCGGCACTTTCAAATGGTCTTACCCCCA
 AAAGATGGCAGTGGTGTCAAGGAGTGGGAAGTGTACAACCTCCCCGAGGCGGCGTGGG
 ATGGGCATGTACAACACCGACGAGTCCATCTCAGGTTTTGCGCACAGCTGCTTCCAGTAT
 GCCATCCAGAAGAAATGGCCGCTGTACATGAGCACCAAGAACCATACTGAAAGCCTAC
 GATGGGCGTTTTCAAGGACATCTTCCAGGAGATCTTTGACAAGCACTATAAGACCGACTTC
 GACAAGAATAAGATCTGGTATGAGCACCGGCTCATTGATGACATGGTGGCTCAGGTCCCTC
 AAGTCTTCGGGTGGCTTTGTGTGGCCCTGCAAGAATAATGACGGAGATGTGCAGTCAGAC
 ATCCTGGCCAGGGCTTTGGCTCCCTTGGCCTGATGACGTCCGTCTGGTCTGCCCTGAT
 GGAAGACGATTGAGGCTGAGGCCGCTCATGGGACCGTCAACCGCCACTATCGGGAGCAC
 CAGAAGGGCCGGCCACCAGCACCAACCCATCGCCAGCATCTTTGCCTGGACACGTGGC
 CTGGAGCACCGGGGAAGCTGGATGGGAACCAAGACCTCATCAGGTTTGGCCAGATGCTG
 GAGAAGGTGTGCGTGGAGACGGTGGAGAGTGGAGCCATGACCAAGGACCTGGCGGGCTGC
 ATTCACGGCCTCAGCAATGTGAAGCTGAACGAGCACTTCTGAAACACCAGGACTTCCTC
 GACACCATCAAGAGCAACCTGGACAGAGCCCTGGGAGGAGTAGGGGGAGGCGCCACCC
 ATGGCTGCAGTGGAGGGCCAGGGCTGAGCCGGCGGGTCTCCTGAGCGCGGAGAGGGT
 GAGCCTCACAGCCCCTCTCTGGAGGCCTTTCTAGGGGATGTTTTTTATAAGCCAGATGT
 TTTTAAAAGCATATGTGTGTTTCCCTCATGGTACGTGAGGCAGGAGCAGTGCCTTTTA
 CCTCAGCCAGTCAGTATGTTTTGCATACTGTAATTTATATTGCCCTTGAACACATGGTG
 CCATATTTAGCTACTAAAAAGCTCTTCACAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_002168

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).

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| 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_002168.2 , NP_002159.2 |
| RefSeq Size: | 1740 bp |
| RefSeq ORF: | 1359 bp |
| Locus ID: | 3418 |
| UniProt ID: | P48735 |
| Cytogenetics: | 15q26.1 |
| Domains: | isodh |
| Protein Pathways: | Citrate cycle (TCA cycle), Glutathione metabolism, 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. Each NADP(+)-dependent isozyme is a homodimer. The protein encoded by this gene is the NADP(+)-dependent isocitrate dehydrogenase found in the mitochondria. It plays a role in intermediary metabolism and energy production. This protein may tightly associate or interact with the pyruvate dehydrogenase complex. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p> |