

Product datasheet for SC115198

HIGD1A (NM_014056) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIGD1A (NM_014056) Human Untagged Clone
Tag:	Tag Free
Symbol:	HIGD1A
Synonyms:	HIG1; RCF1a
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115198 sequence for NM_014056 edited (data generated by NextGen Sequencing)

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ATGTCAACAGACACAGGTGTTCCCTTCCTTCATATGAGGAAGATCAGGGATCAAACTC
ATTCGAAAAGCTAAAGAGGCACCATTCGTACCCGTTGGAATAGCGGGTTTTGCAGCAATT
GTTGCATATGGATTATATAAACTGAAGAGCAGGGGAAATACTAAAATGTCCATTCATCTG
ATCCACATGCGTGTGGCAGCCCAAGGCTTTGTTGTAGGAGCAATGACTGTTGGTATGGG
TATCCATGTATCGGGAATTCTGGGCAAAACCTAAGCCTTAG
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Clone variation with respect to NM_014056.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_014056 unedited
TAGAGTCGACTATTGTAACGACTCACAAAGGCGCCGCGACATCGGCACGAGNAGAGGT
TTTCTCGCTCTAGGGAGATTCTTCAAGCAATCACTATGTCAACAGACACAGGTGTTCC
TTCCTTCATATGAGGAAGATCAGGGATCAAACTCATTGAAAAGCTAAAGAGGCACCAT
TCGTACCCGTTGGAATAGCGGGTTTTGCAGCAATTGTTGCATATGGATTATATAAACTGA
AGAGCAGGGGAAATACTAAAATGTCCATTCATCTGATCCACATGCGTGTGGCAGCCCAAG
GCTTTGTTGTAGGAGCAATGACTGTTGGTATGGGCTATCCATGTATCGGGAATTCTGGG
CAAAACCTAAGCCTTAGAAGAAGAGATGCTGTCTTGGTCTTGTGGAGGAGCTTGCTTTA
GTTAGATGCTTATTATTAAAGTTACCTATTATTGTTGGAATAAACTAATTTGTATGGG
TTTAGATGGTAACATGGCATTGGAATATTGGCTTCTTTCTTGCAAGGCTTGATTGCTT
GGTGACCGAATTACTAGTGACTAGTTTACTAAGGTCATTCAAGGAAGTCAAGTTAAC
TTAAACATGTCACCTAAATGCACCTTGATGGTGTGAAATGTCCACCTTCTTAAATTTTAA
AGATGAACTTAGTTCTAAAGAAGATAACAGGCCAATCCTGAAGGTAAGTCCCTGTTTGCTG
CAGAATGTCAGATATTTTGGATGTTGCATAAGAGTCCTATTTGCCCCAGTTAATTCAAC
TTTTGTCTGCCTGTTTGTGGACTGGCTGGCTCTGTTAGAAGTCTGTCCAAAAGTGCATG
GAATATAAACTTGAAGCTTCCACATTGACATATATATGCATGTGTTTAAACCAATCCA
NGAAGCTTAAACATAGAGCTGCATAATT
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014056 unedited AATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTGGGTCACCTTACTTTAATAACAATACATA TACCATGTTAACACCATGGAATGCAAATTCAGATTAGACAAGAGAATTTCAAGTGTGA TAGCCTTCTGTATATTATATAAAAGTTTGGGTACTGTCTGGCCAAACCAGCTTGCTCA TAAGTCATTAACCAAATCCATTATAGGTAATTTGTTCAAGTTCAATGTTTACAATCTTAT GGAAAAAATTAGCAACACACACATTTAAAACGTGTGCATTTACCTTTGCGTGAGTGCTTA AAATACATATTTCTATTTCAAGATGACATTTAAAATTATTCTAATATATCAGCAGCAAA AATATAATTTGCAATTACAAAAAATAAACTAGAATCCTTAAGTTATTCTCATGTTTACA GTTGTGATTCTTTAATAAATACTATTATGCAGCTCTATTGTTTAAAGCTTTCTGGATTTGG TTTAAACACATGCATATATATTGTCAATTGTGGGAAGCTTTACAAGTTATATTCCATGCA CTTTTTGGACAGAGTTCTAACAGAGCCAGCCAGTCCACANAACAGGCAGACAAAAAGTGA ATTAACNNGGGCAATANGACTCTTTATGCACATCCAAAATATCTGACATTCTGCAGCAA ACAGGGAGTACCTTCANNGATGGCCTGTTATCTCCTTTAGACTAAGNTCATCTTAAAATT TAAGAAGGTGACACTTCACACCATCAGTGCATTANGTGACATGTTTAAAGTAACTTGACTT CCTTGATGACTAGTTAGAACTAGTCTAGTAATTCGCCACAGCAATCAACCTGCAGAAA GGAGCCAATTCAAATGCCTGTTACATCTAACCATCCAATATNTATTCCACATATAGTACT TATAATAGATTTACTAAGCAGTCTCCACAGACAGAAGATTTTTTTTTTAGCTAGTTGCCCA ATCCAACCTGAATCCTCCAGTATGTCTAACG
Restriction Sites:	NotI-NotI
ACCN:	NM_014056
Insert Size:	1460 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).
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:	<u>NM_014056.1</u> , <u>NP_054775.1</u>
RefSeq Size:	1362 bp
RefSeq ORF:	282 bp
Locus ID:	25994
UniProt ID:	<u>Q9Y241</u>
Cytogenetics:	3p22.1
Domains:	HIG_1_N

Protein Families: Transmembrane

Gene Summary: Proposed subunit of cytochrome c oxidase (COX, complex IV), which is the terminal component of the mitochondrial respiratory chain that catalyzes the reduction of oxygen to water. May play a role in the assembly of respiratory supercomplexes.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) contains a distinct 5' UTR and lacks a portion of the 5' coding region, compared to variant 1. These differences cause translation initiation at a downstream AUG and a protein (isoform b) with a shorter N-terminus compared to isoform a. Both variants 2 and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.