

Product datasheet for SC119821

Ornithine Carbamoyltransferase (OTC) (NM_000531) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ornithine Carbamoyltransferase (OTC) (NM_000531) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ornithine Carbamoyltransferase
Synonyms:	OCTD; OTCD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119821 sequence for NM_000531 edited (data generated by NextGen Sequencing)

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ATGCTGTTAATCTGAGGATCCTGTAAACAATGCAGCTTTTAGAAATGGTCACAACCTTC
ATGGTTTCAAATTTTCGGTGTGGACAACCACTACAAAATAAAGTGCAGCTGAAGGCCGT
GACCTTCTCACTTAAAAAACTTTACCGGAGAAGAAATTAATATATGCTATGGCTATCA
GCAGATCTGAAATTTAGGATAAAACAGAAAGGAGAGTATTTGCCTTTATTGCAAGGGAAG
TCCTTAGGCATGATTTTTGAGAAAAGAAGTACTCGAACAAAGATTGTCTACAGAAACAGGC
TTTGCACCTTCTGGGAGGACATCCTTGTCTTACCACACAAGATATTCATTTGGGTGTG
AATGAAAGTCTCACGGACACGGCCCGTATTGTCTAGCATGGCAGATGCAGTATTGGCT
CGAGTGTATAACAATCAGATTTGGACACCCTGGCTAAAGAAGCATCCATCCCAATTATC
AATGGGCTGTGAGATTTGTACCATCCTATCCAGATCCTGGCTGATTACCTCAGCTCCAG
GAACACTATAGCTCTCTGAAAGTCTTACCTCAGCTGGATCGGGGATGGGAACAATATC
CTGCACCTCCATCATGATGAGCGCAGCGAAATTCGGAATGCACCTTCAGGCAGCTACTCCA
AAGGGTTATGAGCCGGATGCTAGTGTAAACCAAGTTGGCAGAGCAGTATGCCAAAGAGAAT
GGTACCAAGCTGTTGCTGACAAATGATCCATTGGAAGCAGCGCATGGAGGCAATGTATTA
ATTACAGACACTTGGATAAGCATGGGACAAGAAGAGGAGAAGAAAAAGCGGCTCCAGGCT
TTCCAAGTTACCAGTTACAATGAAGACTGCTAAAGTTGCTGCCTCTGACTGGACATTT
TTACACTGCTTGGCCAGAAAGCCAGAAGAAGTGGATGATGAAGTCTTTTATTCTCCTCGA
TCACTAGTGTTCAGAGGCAGAAAACAGAAAGTGGACAATCATGGCTGTCATGGTGTCC
CTGCTGACAGATTACTCACCTCAGCTCCAGAAGCCTAAATTTTGA

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Clone variation with respect to NM_000531.5



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000531 unedited
 NAAGTTCACATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGGACTTT
 GATAAGGAAGCTGAAGGGTGATATTACCTTTGCTCCCTCACTGCAACTGAACACATTTCT
 TAGTTTTTAGTGGCCCCCGCTGGCTAACTTGCTGTGGAGTTTTCAAGGGCATAGAATCG
 TCCTTTACACAATTAAGAAGATGCTGTTAATCTGAGGATCCTGTTAAACAATGCAGC
 TTTTAGAAATGGTCACAACCTCATGGTTGAAAATTTTCGGTGTGGACAACCACTACAAAA
 TAAAGTGCAGCTGAAGGGCCGTGACCTTCTCACTCTAAAAAACTTTACCGGAGAAGAAAT
 TAAATATATGCTATGGCTATCAGCAGATCTGAAATTTAGGATAAAACAGAAAGGAGAGTA
 TTTGCCTTTATTGCAAGGGAAGTCTTAGGCATGATTTTTGAGAAAAGAAGTACTCGAAC
 AAGATTGTCTACAGAAACAGGCTTTGCACCTTCTGGGAGGACATCCTTGTTTTCTTACCAC
 ACAAGATATTCATTTGGGTGTAATGAAAGTCTCACGGACACGGCCCGTATTGTCTAG
 CATGGCAGATGCAGTATTGGCTCGAGTGTATAACAATCAGATTTGGACACCCTGGCTAA
 AGAAGCATCCATCCAATTATCAATGGGCTGTCAGATTTGTACCATCCTATCCAGATCCT
 GGCTGATTACCTCAGCTCCAGGAACACTATAGCTCTCTGAAAGGTCTTACCCTCAGCTG
 GATCGGGGATGGGAACAATATCCTGCACCTCCATCATGATGAGCGCAGCGAAATTTGAAAT
 GCACCTTNCAGCAGCTACTCCAAAGGGTTATGAGCCGATGCTAGTGTAAACCAAGTTGGGC
 AGGCAGTATGCCAAAGAGAATGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000531 unedited
 NTTACTCTGNNACCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTAGG
 TGACAGGATTTATTATGTACACCAAAGATGCAAGCGTCATTTCTAGAATTTTCGTTAAAC
 TTCGGAGTTGTAATAGCTATATAGGAAAAGGGTAAGAAGAAAGAGGAGATGAAAACAGC
 TTTGCAAAAGTTAAGGGTGAATTTTCTCCCTATTTCTTTTTTCTGACAATATAAAT
 AATGTCTGATTAAGATGAAAAGTTAAGAAAGCAAATACATTCCTACAGAATTGGGCTGAG
 AATGAGGTTAAATTTGATGTACACAATAAAGAAAGCTATAGAGCTTTTTGAGGAAAAAAT
 GACTATATTTTGGCAAGAAAATTATTACAAGTTCTTTCCAAGTGAGGGGAAGAAGACTATA
 CCATCCATTTAGTTCAAAGAATAACCAGGAATGAGATGGGAGCTCGTTACTATGGCAGAC
 CATTTGGCAAGTGAAGAACAACCTTCTTTCTATGTAGGCAATTTGAGGGTGAGCCTCCAC
 AATCCATATGACACCTTGTCTACTCTCTGCTGAAAGATATCCACTAACTCCACTCTC
 TTTCTAAGTGCTTCCAATAAATTACTATGGACACAAAAGTCACCTTTGACATTTACTGGA
 AAATTTGATGTTTTTTTTCTGTAACATTATGAGCCTCTTTCCCCACAAAAAATGTTTTAT
 TGCACCTTCATTGCAAATCTAATTTGTAATTCATCCCTTGCTTACTCATTAAAGTCAGAG
 CTGTGTGCTGAAGAATATCAGTCAACCAGCCTGAAACATTNNTTAATAGTAAATGTAG
 AATGGTAAGGAAATACATTATTNTGTCTTCTGTAATGTATAATTTTTAAAAAATTAC
 TATGTTATTTACATTNNTACTANNAATCAATATTCATATATTCACATACAATG

Restriction Sites:

NotI-NotI

ACCN:

NM_000531

Insert Size:

2800 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_000531.3 , NP_000522.3
RefSeq Size:	1927 bp
RefSeq ORF:	1065 bp
Locus ID:	5009
UniProt ID:	P00480
Cytogenetics:	Xp11.4
Domains:	OTCace, OTCace_N
Protein Families:	Druggable Genome
Protein Pathways:	Arginine and proline metabolism, Metabolic pathways
Gene Summary:	This nuclear gene encodes a mitochondrial matrix enzyme. Missense, nonsense, and frameshift mutations in this enzyme lead to ornithine transcarbamylase deficiency, which causes hyperammonemia. Since the gene for this enzyme maps close to that for Duchenne muscular dystrophy, it may play a role in that disease also. [provided by RefSeq, Jul 2008]