

Product datasheet for **SC127611**

ATP5D (AK094357) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP5D (AK094357) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP5D
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AK094357, the custom clone sequence may differ by one or more nucleotides

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GTCTCTCGCCCTCCAGGCCGCCCGCCGCGCCGCGCCGGAGTCCGCTGTCCGCCAGCTACCCGCTTCCTGCC
GCCCGCCGCTGCCATGCTGCCCGCCGCGCTGCTCCGCCGCCGGGACTTGGCCGCTCGTCCGCCACGCC
CGTGCCTATGCCGAGGCCGCCGCCGCCCGGCTGCCGCTCTGGCCCAACCAGATGTCTTACCTTCG
CCTCTCCACGCAGGTTCCGGGCGCTGCGGGTCCGGACCTCCGTGGCCGCCGCCGCCGGAGTCCAGGGTC
CCCACCCCGAGGGCGGACCCCGCTTCCGGGCCGCCGCCGCCGCCGGAAGCCGAGGCTACTCA
GCCCTGGACCTCGGCCCTGCCTCTGCTGCCGAGCCCTGCGCTGCCCTCGTCCGGGCACCTCCCGGAG
ATAAGCGTCTCCTGGGTGCCCTCCCGATCTCCTGGCCAAAGCCTGGGTGTCCGGGATCGTTGCATT
CCATTCGCGGATCAGTAGAATGAGGCGCAACTGTTGAGGACCAAGCTGCAACTTCGGATCCCTGCGCT
GGGTTGTCTCAGTGCCTCACATCAGCGCCAGGTCTGCCCTGACCCATTACTTAGCAGGACAGGCCGAGT
GCCCGGTGGGCGCGGGGCCGCCCTGCCCGCCATCATTCCCACGCTGTTGTCTGCAGGTGTTCTCAAC
GGTGCCAAAGTCCGGCAGGTGGACGTGCCACGCTGACCGGAGCCTTCGGCATCCTGGCGGCCACGTGC
CCACGCTGCAGGTCTGCGGCCGGGCTGGTCTGGTGCATGCAGAGGACGGCACCACCTCAAATACTT
TGGTGAGTCCGGTGGAGGCTGCAGGGCCAGGCCAGGCTGGGGCTCCACATCCAGGTGAGTCTCCGTCT
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GGGAGGCCGAGGAGGTGATCACCTGAGGTGAGAAGTTCGGAGACCAGCCTGGCCAACATGATGTAACC
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AGGCCGAGGCCGGGGGATCACGAGGTGAGGAGATCGAGACCATCCTGGCTAACACGGTGAACCCCGTCT
CTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGCGGGTGCCTGTAGTCCCAGCTAGTCAGGAGGCTG
AGGAGATTGTCCACTGCACTCCAGCCTGGGCAACAAGAGTGAACCTCCATCTCAATAAGAAAAATACA
GTTTTAGCAGGTTTGTCCACTGAGGAGCCTGGGCTGGCCGGTGTGAAAGCGAACCAGAGGGGACCTGC
TCTCAGCCGTTTATGACTGGCTCTGGACCAACCAATGTAGGATGGTGAAGCAAGAGATGTAACCAC
CCAGGCCAGTGGTTCATGCCTGTAATCTCAGCACTTTGGGAGACTGAAGTGGGAGAATCGCTTAAGCCC
AGGAGTTTGAGACTAGCCTTGGAACATAGTGAGACCCGTCTCTAC
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5' Read Nucleotide Sequence:

>OriGene 5' read for AK094357 unedited
 GTATACGACTTCTATAGGGCGGCCGGAATTCGGCACGAGGGCGCCGCGCCGGAGTCCG
 CTGTCCGCAGCTACCCGCTTCTGCGCCCGCCGCTGCCATGCTGCCCGCCGCGTGT
 CCGCCGCGGGGACTTGGCCGCTCGTCCGCCACGCCCGTGCCTATGCCGAGGCCGCGC
 CGCCCCGGCTGCCGCTTGCCCAACAGATGTCTTACCTTCGCTCTCCCACGCA
 GGTGTTCTTCAACGGTGCCAACGTCCGGCAGGTGGACGTGCCACGCTGACCCGAGCCTT
 CGGCATCCTGGCGGCCACGTGCCACGCTGCAGGTCTGCGGCCGGGGCTGGTCTGGT
 GCATGCAGAGGACGGCACCCACCTCCAAATACTTTGTGAGCAGCGTTCCATCGCAGTGAA
 CGCCGACTCTTCGGTGCAGTTGTTGGCCGAAGAGGCCGTGACGCTGGACATGTTGGACCT
 GGGGGCAGCCAAGGCAAACCTTGAGAAGGCCAGGCCGAGCTGGTGGGACAGCTGACGA
 GGCCACGCGGGCAGAGATCCAGATCCGAATCGAGGCCAACGAGGCCCTGGTGAAGCCCT
 GGAGTAGGCGAGCCAGCCCAAGGTTGACCTCAGCTTCGGAGCCACCTCTGGATGAACT
 GCCCCAGCCCCGCCCATTAAGACCCGGAAGCCTGAAAAAAAAACAAACNAAACANC
 CCCNCCACCCCCNTCTCCCCCACCCAAAAAAACAAAAAACNCCCTGACCTTAAAT
 GCGCCGCGGCATACTGTTTCTGAACAACCCGGTGAATCCTGGACCCTCCAGGGCCTTCTG
 CCTGGATTGCCCTCAGGCCCCACTGCCTATAATTAGTGCTTCTTGCACAGGCCTTT

3' Read Nucleotide Sequence:

>OriGene 3' read for AK094357 unedited
 GGGCATGGGGTCTTTCAGGGGTGGGGGTGGGGCAGTTCATCCACAGTGGCTCCGAAGC
 TGATGTCAACCTTGGCGGCTGGCTCGCCTCTCCAGGCCTTACCAGGGCCTCGTTGGCCT
 CGATTCGGATCTGGATCTCTGCCCGCTGGCTCGTCAGCTGTCCCACAGCTCCGCT
 GGGCCTTCTCAAAGTTTGCCTTGGCTGCCCCAGGTCCAACATGTGCAGCGTCACGGCCT
 CTTGGGCAACAACCTGCACCGAAGAGTGGCGTTCACTGCGATGGAACCGCTGCTACAA
 AGTATTTGGAGGTGGTCCGTTCTCTGCATGCACCAGCAGCCAGCCCGGCGCAGGACCT
 GCAGCGTGGGCACGTGGGCCGCCAGGATGCCGAAGGCTCCGGTACGCTGGGCAGTCCA
 CCTGCCGACGTTGGCACCGTTGAAGAACACCTGCGTGGGAGAGGCGAAGGCGAAGGACA
 TCCGGCTGGGGCCAGAGGCGCAACGCGGGGCGGTGGCCGCTCGGTATACGCACCGTGC
 TGGCGGACGATGCGGCCAATTCGCGGGCGGTGGACCCTGCGGCCGGCACCTGCCCGGC
 GGGCGCTCGAACCGTTATCTGGCGGACAGCGGGATTTGGCGCGGGCCCTGGTGGCGG
 AATTGGGGGGCGCCCTTAGGGAGCCGTGTTCCCAACTCCGCCGCTCCACCTAACCGCC
 GCTTGGCGCTTCCCCCTCCTATCGCGACTCCTACCGAGCCTTCGCCAGCCCGCGCGG
 GCTTTTATCCCCCTTGGCACCGCCTTTGCTTCGGTGGCCCAACAACCCCTCTGCCGT
 TATGGGGCCGGTACCTGGACATCCTGCGGTCAACCCGTTACCCCGCCTTGGGGTCTCC
 CCTAACCCCTTACCAGGGATAACCGGGACTN

Restriction Sites:

NotI-NotI

ACCN:

AK094357

Insert Size:

840 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:

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: [AK094357.1](#)

RefSeq Size: 1587 bp

RefSeq ORF: 1587 bp

Locus ID: 513

Cytogenetics: 19p13.3

Protein Pathways: Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

Gene Summary: This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F₁, and the membrane-spanning component, F_o, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel consists of three main subunits (a, b, c). This gene encodes the delta subunit of the catalytic core. Alternatively spliced transcript variants encoding the same isoform have been identified. [provided by RefSeq, Jul 2008]