

## Product datasheet for **SC111060**

### UAP56 (DDX39B) (NM\_004640) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UAP56 (DDX39B) (NM_004640) Human Untagged Clone
Tag:	Tag Free
Symbol:	UAP56
Synonyms:	BAT1; D6S81E; UAP56
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_004640 edited  
 GTTGCTGCCGCCATACGCGCTCTCCCTGTTTAGCTCTTCTGTTAGAAATAGTATCTTTGT  
 TTTCTTTGCTGTTTCTCAATCCCCTACTCTTACCCCCTGTTTTACCTATTTTGCGAG  
 AACCCATCCAGATCCCCCTTCCCTTCTTCCCCTGCCGGCCAGTTATGGCAGAGAACGAT  
 GTGGACAATGAGCTCTTGGACTATGAAGATGATGAGGTGGAGACAGCAGCTGGGGGAGAT  
 GGGGCTGAGGCCCTGCCAAGAAGGATGTCAAGGGCTCCTATGTCTCCATCCACAGCTCT  
 GGCTTTTCGTGACTTCTGCTCAAGCCAGAGTTGCTCCGGGCCATTGTCGACTGTGGCTTT  
 GAGCATCCGTCAGAAGTCCAGCATGAGTGCATCCCTCAGGCCATTCTGGGAATGGATGTC  
 CTGTGCCAGGCCAAGTCGGGCATGGGAAAGACAGCAGTGTGTTGCTTGGCCACACTGCAA  
 CAGCTGGAGCCAGTTACTGGGCAGGTGTCTGTGCTGGTATGTGTCACTCGGGAGTTG  
 GCTTTTCAGATCAGCAAGGAATATGAGCGCTTCTCTAAATACATGCCAATGTCAAGGTT  
 GCTGTTTTTTTTGGTGGTCTGTCTATCAAGAAGGATGAAGAGGTGCTGAAGAAGAACTGC  
 CCGCATATCGTCGTGGGACTCCAGGCCGTATCCTAGCCCTGGCTCGAAATAAGAGCCTC  
 AACCTCAAACACATTAACACTTTATTTTGGATGAATGTGATAAGATGCTTGAACAGCTC  
 GACATGCGTCGGGATGTCCAGGAAATTTTTCGCATGACCCCCACGAGAAGCAGGTCATG  
 ATGTTTCAGTGCTACCTTGAGCAAAGAGATCCGTCAGTCTGCCGCAAGTTCATGCAAGAT  
 CCAATGGAGATCTTCGTGGATGATGAGACGAAGTTGACGCTGCATGGGTTGCAGCAGTAC  
 TACGTGAAACTGAAGACAACGAGAAGAACCAGGAACTCTTTGACCTTCTGGATGTCCTT  
 GAGTTCAACCAGGTGGTATCTTTGTGAAGTCTGTGCAGCGGTGCATTGCCTTGGCCAG  
 CTACTAGTGGAGCAGAATTTCCAGCCATTGCCATCCACCGTGGGATGCCCCAGGAGGAG  
 AGGCTTTCTCGGTATCAGCAGTTTAAAGATTTTCAACGACGAATCTTGTGGCTACCAAC  
 CTATTTGGCCGAGGCATGGACATCGAGCGGTGAACATTGCTTTTAATTATGACATGCCT  
 GAGGATCTGACACCTACCTGCATCGGGTGGCCAGAGCAGGCCGTTTGGCACCAAGGC  
 TTGGCTATCACATTTGTGTCGATGAGAATGATGCCAAGATCCTCAATGATGTGCAGGAT  
 CGCTTTGAGGTCAATATTAGTGAGCTGCCTGATGAGATAGACATCTCCTCTACATTGAA  
 CAGACACGGTAGAAGACTCGCCATTTTGGAAATGTGACCGTCTGTCTTCCAGGAGAGGAC  
 ACCAGGGTGGGGTGAAGGAGACTACTGCCCCACCCCTGACAGCCCCACCCCATGG  
 CTTCCATCTTTGCATCACCACCTCCTGAACCCCATTTCTGATTTGCAGAATTTT  
 TTTAACAAAATAAAAAAGAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_004640 unedited  
 GTCGAAATTTGTATACGACTCATATAGCGCGCCGNAATTCGCACGAGGTTGCTGCCGC  
 CATACGCGCTCTCCCTGTTTAGCTCTTCTGTTAGAAATAGTATCTTTGTTTTCTTTGCT  
 GTTCTCAATCCCCTACTCTTACCCCCTGTTTTACCTATTTTGCAGAAACCATCCAG  
 ATCCCCCTTCCCTTCTTCCCCTGCCGGCCAGTTATGGCAGAGAACGATGTGGACAATGA  
 GCTCTTGGACTATGAAGATGATGAGGTGGAGACAGCAGCTGGGGGAGATGGGCTGAGGC  
 CCCTGCCAAGAAGGATGTCAAGGGCTCCTATGTCTCCATCCACAGCTCTGGCTTTGCTGA  
 CTTCTGCTCAAGCCAGAGTTGCTCCGGGCCATTGTCGACTGTGGCTTTGAGCATCCGTC  
 AGAAGTCCAGCATGAGTGCATCCCTCAGGCCATTCTGGGAATGGATGTCCTGTGCCAGGC  
 CAAGTCGGGCATGGGAAAGACAGCAGTGTGTTGCTTGGCCACACTGCAACAGCTGGAGCC  
 AGTTACTGNGCAGGTGTCTGTGCTGGTATGTGTCACTNCGGAGTTGGCTTTTCAGAT  
 CAGCAAGGAATATGAGCGCTTCTCTAAATACATGCCAATGTCAAAGGTTGCTGTTTTT  
 TTGGGTGGTCTGTCTATCAAGAANGATGAAGAGGTGCTGAAGAAGAACTGCCCGCATATC  
 GTCGTGGGAACTCAGGCCGATTCTAGCCCTGGCTCGAATAAGACCTCAACCTCAACAC  
 ATAAACACCTTATTTTGGATGAATGTAAAAGAATGCTTGAACAGCCTCACATGCCTCCGG  
 ATTGCCAGAAATTTTCCCATGACCCCCCAAGAACAGTCAAGATGTTTCATTGCTCCC  
 TTGACCAAAAGATCCCTCCCATCTGCCAAGTTCT

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_004640 unedited CCGCGGCACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCATTTTTAGTTTTGTTA AAAAAAAAATTCTGACAAATCAGAATGGGGGTTTCAGGAGTGGTGGTGATGCAAAAGATGGA AGCCATGGGGTGGGGGCTGTGAGGGTGGGGGCAGTAGTGTCTCCTTCACCCCCACCCTG GTGTCCTCTCCTGAAGGACAGACGGTCACATTCAAAAATGGGCGAGTCTTCTACCGTGTC TGTTCAATGTAGGAGGAGATGTCTATCTCATCAGGCAGCTCACTAATATTGACCTCAAAG CGATCTGCACATCATTGAGGATCTTGGCATCATTCTCATCGGACACAAATGTGATAGCC AAGCCCTTGGTGCCAAACCGGCCTGCTCTGGCCACCCGATGCAGGTAGGTGTCAGAATCC TCAGGCATGTCATAAATAAAAGCAATGTTACCCGCTCGATGTCCATGCCTCGGCCAAAT AGGTTGGTAGCCACAAGAATTCGTCGTTGAAAATCTTTAAACTGCTGATACCGAGAAAAGC CTCTCCTCCTGGGGCATCCCACGGTGGATGGCAATGGCTGGGAAGTTCTGCTCCACTAGT AGCTGGGCCAAGGCAATGCACCGCTGCACAGACTTCACAAAGATCACCACCTGGTTGAAC TCAAGGACATCCAGAAGGTCAAAGAGCTTCCGGTCTTCTCGTTGTCCTTCAGTTTCACG TAGTACTGCTGCAACCCATGCAGCGTCAACTTCGTCTCATCCACGAAGATCTCCATT GGATCTTGCATGAACTTGCCGCAGACTGGACGGATCTCTTTGCTCAAGTAGCACTGAACA TCATGACCTGCTTCTCGTGGGGGTCATGCGAAAATTTCTGGGACTNCCGAGCATGTGC AGCTGTTCAAGCATCTATCCATTATCAATAAC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004640
<b>Insert Size:</b>	1700 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	no
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_004640.4</a> , <a href="#">NP_004631.1</a>
<b>RefSeq Size:</b>	1849 bp
<b>RefSeq ORF:</b>	1287 bp
<b>Locus ID:</b>	7919
<b>UniProt ID:</b>	<a href="#">Q13838</a>
<b>Cytogenetics:</b>	6p21.33
<b>Domains:</b>	DEAD, helicase_C

**Protein Pathways:** Spliceosome

**Gene Summary:** This gene encodes a member of the DEAD box family of RNA-dependent ATPases that mediate ATP hydrolysis during pre-mRNA splicing. The encoded protein is an essential splicing factor required for association of U2 small nuclear ribonucleoprotein with pre-mRNA, and it also plays an important role in mRNA export from the nucleus to the cytoplasm. This gene belongs to a cluster of genes localized in the vicinity of the genes encoding tumor necrosis factor alpha and tumor necrosis factor beta. These genes are all within the human major histocompatibility complex class III region. Mutations in this gene may be associated with rheumatoid arthritis. Alternative splicing results in multiple transcript variants. Related pseudogenes have been identified on both chromosomes 6 and 11. Read-through transcription also occurs between this gene and the upstream ATP6V1G2 (ATPase, H<sup>+</sup> transporting, lysosomal 13kDa, V1 subunit G2) gene. [provided by RefSeq, Feb 2011]  
Transcript Variant: This variant (1) represents the longest transcript. Both variants 1 and 2 encode the same protein.