

Product datasheet for **SC118166**

UAP1 (NM_003115) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UAP1 (NM_003115) Human Untagged Clone
Tag:	Tag Free
Symbol:	UAP1
Synonyms:	AGX; AGX1; AGX2; SPAG2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118166 sequence for NM_003115 edited (data generated by NextGen Sequencing)

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ATGAACATTAATGACCTCAAACCTCACGTTGTCCAAAGCTGGGCAAGACCTACTACGT
TTCTGGAATGAGCTTGAAGAAGCCCAACAGGTAGAAGTTTATGCAGAGCTCCAGGCCATG
AACTTTGAGGAGCTGAACCTCTTTTTCCAAAAGGCCATTGAAGGTTTTAACAGTCTTCT
CACCAAAAAGAATGTGGATGCACGAATGGAACCTGTGCCTCGAGAGGTATTAGGCATGCT
ACAAGGGATCAAGATCAGCTCCAGGCCTGGGAAAGTGAAGGACTTTCCAGATTTCTCAG
AATAAAGTAGCAGTTCTTCTTCTAGCTGGTGGCAGGGGACAAGACTCGGCGTTGCATAT
CCTAAGGGGATGTATGATGTTGGTTTGCCATCCCGTAAGACACTTTTTTCAGATTCAGCA
GAGCGTATCCTGAAGCTACAGCAGGTTGCTGAAAAATATTATGGCAACAAATGCATTATT
CCATGGTATATAATGACCAGTGGCAGAACAATGGAATCTACAAAGGAGTTCTTCACCAAG
CACAAGTACTTTGGTTTAAAAAAGAGAATGTAATCTTTTTTTCAGCAAGGAATGCCTCCC
GCCATGAGTTTTGATGGGAAAATATTTTTGGAAGAGAAGAACAAGTTTTCTATGGCTCCA
GATGGGAATGGTGTCTTTATCGGGCACTTGCAGCCAGAAATATTGTGGAGGATATGGAG
CAAAGAGGCATTTGGAGCATTATGTCTATTGTGTTGACAACATATTAGTAAAAGTGGCA
GACCCACGGTTCAATGGATTTTGCAATTCAGAAAGGAGCAGACTGTGGAGCAAAGTGGTA
GAGAAAACGAACCCTACAGAACCAGTTGGAGTGGTTTGCCGAGTGGATGGAGTTTACCAG
GTGGTAGAATATAGTGAGATTTCCCTGGCAACAGCTCAAAAACGAAGCTCAGACGGACGA
CTGCTGTTCAATGCGGGGAACATTGCCAACCTTTCTTCACTGTACCATTTCTGAGAGAT
GTTGTCAATGTTTATGAACCTCAGTTGCAGCACCATGTGGCTCAAAGAAGATTCCTTAT
GTGGATACCAAGGACAGTTAATTAAGCCAGACAAACCAATGGAATAAAGATGGAAAAA
TTTGTCTTTGACATCTTCCAGTTTGCAAAGAAGTTTGTGGTATATGAAGTATTGCGAGAA
GATGAGTTTTCCCACTAAAGAATGCTGATAGTCAGAATGGGAAAGACAACCCACTACTAC
GCAAGGCATGCTTTGATGCCCTTCATCATTGCTGGGTCCCTCAATGCAGGGGGCCATTTT
ATAGATGAAAATGGCTCTCGCCTTCCAGCAATTCCTCGCTTGAAGGATGCCAATGATGTA
CCAATCCAATGTGAAATCTCTCCTTTATCTCCTATGCTGGAGAAGGATTAGAAAAGTTAT
GTGGCAGATAAAGAATCCATGCACCTAATCATCGATGAGAATGGAGTTCATGAGCTG
GTGAAAAATGGTATTTGA
    
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Clone variation with respect to NM_003115.4

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_003115 unedited
GTCGGAATTTGTATACGACTCATATAGGGCGGCCGCGATTTCGGCACGAGGCGCTCCACTT
GGCCCCGCTCCCGGCCCGCCCGCCGCGGCCCGCCCGGATGAGGGTATATATTCGGA
GCGAGCGCGGGACGCCGATGAGTGGCCGCGGGAAGGAGCTGGAGACGGTCGTAGCTGCC
GTCGCGCCGAGAAAGGTTTACAGGTACATACATTACACCCCTATTTCTACAAAGCTTGGC
TATTAGACATTATGAACATTAATGACCTCAAACCTCACGTTGTCCAAAGCTGGGCAAGAG
CACCTACTACGTTTCTGGAATGAGCTTGAAGAAGCCCAACAGGTAGAAGTTTATGCAGAG
CTCCAGGCCATGAACTTTGAGGAGCTGAACTTCTTTTTCCAAAAGGCCATTGAAGTTTTT
AACCAGTCTTCTACCAAAAAGATGTGGATGCACGAATGGAACCTGTGCCTCGAGAGGTA
TTAGGCAGTGCTACAAGGGATCAAGATCAGCTCCAGGCCCTGGGAAAGTGAAGGACTTTTC
CAGATTTCTCAGAATAAAGTAGCAGTTCTTCTTCTAGCTGGTGGGAGGGGACAAGACTC
GGCGTTGCATATCCTAAGGGGATGTATGATGTTTTGTTTTGCCATCCCGTAAGACACTTT
TTCAGATTCAAGCAGAGCGTATCCTGAAGCTACCAGCAGGTTGCTTGAAAATATTATGGC
AACAAATGCATTATCCATGGTATATAATGACCAGTGGCAGAACAATGGATCTCACAAAG
AGGTCTTCACCAGCACAGTACTTTTGGTTTAAAAAAGAAGATGTAATCTTTTCTCAGCAA
GGAATGCTCCGCCATGAGTTTTTGGGGGAAATTATTTTTGAAAGAGAAGAACCATTTT
TTTATGTTTCAATGGGATAGGGTGTTTTTTT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003115 unedited GACGGGCCGCATCTGATCGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGACAAAAA AATACATTTATTTCACTGCCCAATTATTTTCTTAAAAAGCTTAATGTTTGATAAAATAA AACAACTTTTAGTACCATAAAAACCTTCAACATGTACAATGACATATTACTATGT ACAACCTTAAAAACAAATGCTTCCAGCTGCAAGTAACTGATGTTGAACATCCTGCCTAT ATTTCAAGCTGTACGAAATTTCTGGATGGCCAATGGGCTCCTTGGCTTGGAAAAAATTAT ATAAATAAGACCTTCAATGAGTTGGGAATCATAAAAATGCTATCTGAAATTCAGTCATCT GGATCTTGGGAAGTTTGAATAGCTCTAAAAGTTCAACAAGCCAAAATAAACCCCTGTGG ATATTTAAACTTCAGTTGTCCAAGACGCTTGTAGGTTCAACAGTTGGTTCTATCAAAAA ATAAAAGCCTATTCTATCGGGGCAAACAAAACCTTGGTATCTGGTTCAAATAACCACTTT TTCACCAGCTCATGAACCTCCATTTCCATCGATGATTAAAGGGTGCATGGAATTTTTTAT CTGCCCATAACTTTTAACTCTCTCCACATAGGAGATAAAAAGAGAGATTTCCATT GGGATTTGGCCATTATTGGCTTCTTTAAGCGGGGAATTGGTGAAGGCGAAACCCATT TTCTCTATGAAAGGCCCCCGCTTTGGGACCCCCCATGATGAAGGACATTAACCTGCC TTTGCTTATTAGGGTGTGTTTTCCATTCGGCTTTTACCTTTTTTAGGGGAAAACCTCAT TTTTTGCCAATCTTATATTCACAAATTTTTTTGCAACTGTAAACGCAAAAACAATTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_003115
Insert Size:	2630 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_003115.3</u> , <u>NP_003106.2</u>
RefSeq Size:	2323 bp
RefSeq ORF:	1518 bp
Locus ID:	6675
UniProt ID:	<u>Q16222</u>
Cytogenetics:	1q23.3
Domains:	UDPGP
Protein Pathways:	Amino sugar and nucleotide sugar metabolism, Metabolic pathways

Gene Summary:

Converts UTP and GlcNAc-1-P into UDP-GlcNAc, and UTP and GalNAc-1-P into UDP-GalNAc. Isoform AGX1 has 2 to 3 times higher activity towards GalNAc-1-P, while isoform AGX2 has 8 times more activity towards GlcNAc-1-P.[UniProtKB/Swiss-Prot Function]