

Product datasheet for **RC203494**

UAP1 (NM_003115) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UAP1 (NM_003115) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UAP1
Synonyms:	AGX; AGX1; AGX2; SPAG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC203494 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACATTAATGACCTCAAACCTCACGTTGTCCAAAGCTGGCAAGAGCACCTACTACGTTTCTGGAATG
 AGCTTGAAGAAGCCCAACAGGTAGAACTTTATGCAGAGCTCCAGGCCATGAACTTTGAGGAGCTGAACTT
 CTTTTTCCAAAAGGCCATTGAAGGTTTTAACAGTCTTCTTACCAAAAAGAAATGTGGATGCACGAATGGAA
 CCTGTGCCTCGAGAGGTATTAGGCAGTGTACAAGGGATCAAGATCAGCTCCAGGCCTGGGAAAGTGAAG
 GACTTTTCCAGATTTCTCAGAATAAAGTAGCAGTCTTCTTCTAGCTGGTGGCAGGGGACAAGACTCGG
 CGTTGCATATCCTAAGGGGATGTATGATGTTGGTTTCCATCCCCTAAGACACTTTTTCAGATCAAGCA
 GAGCGTATCCTGAAGCTACAGCAGGTGCTGAAAAATATTATGGCAACAAATGCATTATCCATGGTATA
 TAATGACCAGTGGCAGAACAATGGAATCTACAAGGAGTCTTCCACCAAGCACAAGTACTTTGGTTTAAA
 AAAAGAGAATGTAATCTTTTTTCCAGCAAGGAATGCTCCCCGCCATGAGTTTTGATGGGAAAATTATTTG
 GAAGAGAAGAACAAGTTTCTATGGCTCCAGATGGGAATGGTGGTCTTTATCGGGCACTTGCAGCCAGA
 ATATTGTGGAGGATATGGAGCAAAGAGGCATTTGGAGCATTATGTCTATTGTGTGACAACATATTAGT
 AAAAGTGGCAGACCCACGGTTCATTGGATTTTGCATTCAGAAAGGAGCAGACTGTGGAGCAAAGTGGTA
 GAGAAAACGAACCCTACAGAACCAGTTGGAGTGGTTTCCGAGTGGATGGAGTTTACCAGGTGGTAGAAT
 ATAGTGAGATTTCCCTGGCAACAGCTCAAAAACGAAGCTCAGACGGACGACTGCTGTTCAATGCGGGGAA
 CATTGCCAACCATTTCTCACTGTACCATTTCTGAGAGATGTTGTCAATGTTTATGAACCTCAGTTGCAG
 CACCATGTGGCTCAAAAAGAAGATTCCTTATGTGGATACCAAGGACAGTAAATTAAGCCAGACAAACCA
 ATGGAATAAAGATGAAAAATTTGTCTTTGACATCTTCCAGTTTGCAAAAGAAGTTTGTGGTATATGAAG
 ATTGCGAGAAGATGAGTTTTCCCACTAAAGAATGCTGATAGTCAGAATGGGAAAAGACAACCCCTACTACT
 GCAAGGCATGCTTTGATGTCCTTCATCATTGCTGGTCCCTCAATGCAGGGGGCCATTTCTAGATGAAA
 ATGGCTCTCGCTTCCAGCAATCCCGCTTGAAGGATGCCAATGATGTACCAATCCAATGTGAAATCTC
 TCCTCTTATCTCTATGCTGGAGAAGGATTAGAAAATTATGTGGCAGATAAAGAATTCATGCACCTCTA
 ATCATCGATGAGAATGGAGTTCATGAGCTGGTAAAAATGGTATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203494 protein sequence
 Red=Cloning site Green=Tags(s)

MNINDLKLTL SKAGQEHLRFWNELEEAQQVELY AELQAMNFEELNFFFQKAIIEGFNQSSYQKNVDARME
 PVPREVLGSATRDQDLQAWSEGLFQISQNKVAVLLLAGGQGTRLGVA YPKGMYDVGLPSRKTLFQIQ
 ERILKLQVAEKYYGNKCIIPWYIMTSGRTEMSTKEFFTKHKYFGLKKENVIFFQQGMLPAMSF
 EEKNKVS MAPDNGGLYRALAAQNI VEDMEQRGIWSIHVYCVDNILVKVADPRFIGFCIQKGADCGAKV
 EKTNPTEPVGVVCRVDGVYQVVEYSEISLATAQKRSSDGRLLFNAGNIANHFFTVPFLRDVNVNVEP
 HHVAQKKIPYVDTQGGQLIKPKDPNGIKMEKFVDFIQFAKKFVVEVLEDEF SPLKNADSQNGKDNPTT
 ARHALMSLHHCWV LNAGGHFIDENGSR LPAIPRLKDANDVPIQCEISPLISYAGEGLESYVADKEFHAPL
 IIDENGVELVKNGI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6566_d10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_003115

ORF Size: 1515 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_003115.3](#), [NP_003106.2](#)

RefSeq Size: 2344 bp

RefSeq ORF: 1518 bp

Locus ID: 6675

UniProt ID: [Q16222](#)

Cytogenetics: 1q23.3

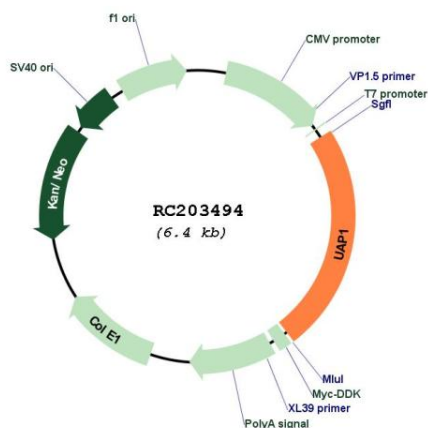
Domains: UDPGP

Protein Pathways: Amino sugar and nucleotide sugar metabolism, Metabolic pathways

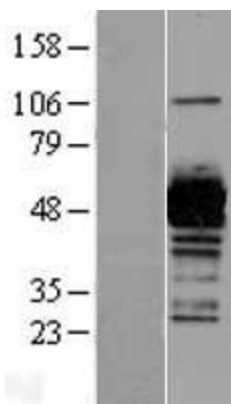
MW: 57.1 kDa

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]

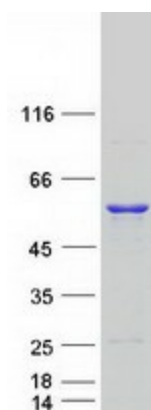
Product images:



Circular map for RC203494



Western blot validation of overexpression lysate (Cat# [LY418892]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203494 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UAP1 protein (Cat# [TP303494]). The protein was produced from HEK293T cells transfected with UAP1 cDNA clone (Cat# RC203494) using MegaTran 2.0 (Cat# [TT210002]).