

## Product datasheet for **RG203494**

### UAP1 (NM\_003115) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UAP1 (NM_003115) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UAP1
Synonyms:	AGX; AGX1; AGX2; SPAG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG203494 representing NM\_003115  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACATTAATGACCTCAAACCTCACGTTGTCCAAAGCTGGCAAGAGCACCTACTACGTTTCTGGAATG  
 AGCTTGAAGAAGCCCAACAGGTAGAACTTTATGCAGAGCTCCAGGCCATGAACTTTGAGGAGCTGAACTT  
 CTTTTTCCAAAAGGCCATTGAAGGTTTTAACAGTCTTCTTACCAAAAAGAAATGTGGATGCACGAATGGAA  
 CCTGTGCCTCGAGAGGTATTAGGCAGTGTACAAGGGATCAAGATCAGCTCCAGGCCTGGGAAAAGTGAAG  
 GACTTTTCCAGATTTCTCAGAATAAAGTAGCAGTCTTCTTCTAGCTGGTGGCAGGGGACAAGACTCGG  
 CGTTGCATATCCTAAGGGGATGTATGATGTTGGTTTCCATCCCCTAAGACACTTTTTCAGATTCAGCA  
 GAGCGTATCCTGAAGCTACAGCAGGTTGCTGAAAAATATTATGGCAACAAATGCATTATTCATGGTATA  
 TAATGACCAGTGGCAGAACAATGGAATCTACAAGGAGTCTTCCCAAGCACAAGTACTTTGGTTTAAA  
 AAAAGAGAATGTAATCTTTTTTCCAGCAAGGAATGCTCCCCGCATGAGTTTTGATGGGAAAATTATTTT  
 GAAGAGAAGAACAAGTTTCTATGGCTCCAGATGGGAATGGTGGTCTTTATCGGGCACTTCAGCCGAGA  
 ATATTGTGGAGGATATGGAGCAAAGAGGCATTTGGAGCATTATGTCTATTGTGTGACAACATATTAGT  
 AAAAGTGGCAGACCCACGGTTCATTGGATTTTGCATTCAGAAAGGAGCAGACTGTGGAGCAAAGTGGTA  
 GAGAAAACGAACCTACAGAACCAGTTGGAGTGGTTTCCGAGTGGATGGAGTTTACCAGGTGGTAGAAT  
 ATAGTGAGATTTCCCTGGCAACAGCTCAAAAACGAAGCTCAGACGGACGACTGCTGTTCAATGCGGGGAA  
 CATTGCCAACCATTTCTCACTGTACCATTTCTGAGAGATGTTGTCAATGTTTATGAACCTCAGTTGCAG  
 CACCATGTGGCTCAAAAAGAAGATTCCTTATGTGGATACCAAGGACAGTAAATTAAGCCAGACAAACCA  
 ATGGAATAAAGATGGAAAAATTTGTCTTTGACATCTCCAGTTTGCAAAGAAGTTTGTGGTATATGAAGT  
 ATTGCGAGAAGATGAGTTTTCCCACTAAAGAATGCTGATAGTCAGAATGGGAAAAGACAACCTACTACT  
 GCAAGGCATGCTTTGATGTCCTTCATCATTGCTGGTCCCTCAATGCAGGGGGCCATTTCTAGATGAAA  
 ATGGCTCTCGCTCCAGCAATCCCCGCTTGAAGGATGCCAATGATGTACCAATCCAATGTGAAATCTC  
 TCCTCTTATCTCTATGCTGGAGAAGGATTAGAAAATGTTGTTGCGAGATAAAGAATTCATGCACCTCTA  
 ATCATCGATGAGAATGGAGTTCATGAGCTGGTAAAAATGGTATT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG203494 representing NM\_003115  
 Red=Cloning site Green=Tags(s)

MNINDLKLTLKAGQEHLLRFWNELEEAQQVELYAEIQAMNFEELNFFFQKAIEGFNQSSYQKNVDARME  
 PVPREVLGSATRDQDLQAWSEGLFQISQNKVAVLLLAGGQGTRLGVAYPKGMVDVGLPSRKTLLFQIQ  
 ERILKLQVAAEKYYGNKCIIPWYIMTSGRTMESTKEFFTKHKYFGLKKENVIFFQQGMLPAMSFQKII  
 EEKNKVSMPDNGGLYRALAAQNIQVEDMEQRGIWSIHVYCVDNILVKVADPRFIGFCIQKGADCGAKVV  
 EKTNPTEPVGVVCRVDGVYQVVEYSEISLATAQKRSSDGRLLFNAGNIANHFFTVPFLRDVVNVYEPQLQ  
 HHVAQKKIPYVDTQGGQLIKPDKPNGIKMEKFVFDIFQFAKKFVYVEVLRDEFSPKLNADSQNGKDNPTT  
 ARHALMSLHHCWVLNAGGHFIDENGSRPAIPRLKDANDVPIQCEISPLISYAGEGLESYVADKEFHAPL  
 IIDENGVELVKNGI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**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:** 2323 bp

**RefSeq ORF:** 1518 bp

**Locus ID:** 6675

**UniProt ID:** [Q16222](#)

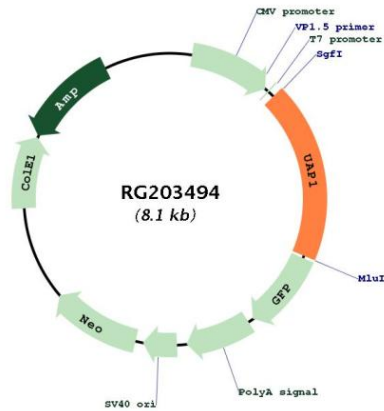
**Cytogenetics:** 1q23.3

**Domains:** UDPGP

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

**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 RG203494