

## Product datasheet for **MG208342**

### Uap1 (NM\_133806) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Uap1 (NM_133806) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Uap1
Synonyms:	AA420407; AA437972; AgX; AGX-1; AGX-2; AGX1; ESTM38; SPAG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208342 representing NM\_133806  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAATGTCAATGACCTCAAACAAGGCTGTCCCAAGCTGGCAAGAGCACCTGCTGCAGTTCTGGAATG  
 AGCTGTCCGAAGCCAGCAGGTAGAACTTTATATGGAGCTCCAGGCCATGAACTTTGAAGAGCTGAACTC  
 CTTTTCCGAAGGCCATTGGTGAATTTGATCGATCCTCTCACCAAGAAAAGGTGGACGCACGAATGGAG  
 CCTGTGCCCGGCAGGTTTTGGGCACTGCTACCAGAGATCAAGAGCAGCTGCAGGCCTGGGAAAGTGAAG  
 GACTTTCTCAGATTTCTCAGAACAAGTAGCAGTTCTTCTTAGCTGGTGGCAGGGGACAAGACTTGG  
 AGTCTCATATCCCAAGGCATGTATGATGTTGGCTTGCCATCCCACAAGACGCTTTTTCAGATCAAGCA  
 GAACGTATTCTGAACTCCAGCAGTTAGCTGAAAAACCCATGGCAACAAGTGCACCATCCCATGGTATA  
 TAATGACCAGCGCAGAACAAATGGAATCAACGAAGGAGTCTTCCAAAAGCACAAGTTCTTTGGTTAAA  
 AAAGGAGAATGTGGTGTTCAGCAGGGAATGCTGCCTGCTATGAGTTTTGATGGGAAAATTATCTTG  
 GAAGAGAAAAACAAAGTGTCTATGGCTCCAGATGGGAATGGTGGTCTCTACCGGGCTCTGCAGCCAAA  
 ACATTGTGGAGGACATGGAGCAAAGAGGCATCTGCAGTATTCATGTCTATTGTGTGGACAACATATTGGT  
 AAAAGTGGCTGACCCCGGTTTCATTGGATTCTGCATTAGAAAAGGAGCAGACTGTGGGGCAAAGTGGTA  
 GAGAAAACGAATCCCACAGAGCCAGTTGGAGTGGTTTCCCGGGTGGATGGAGTATACCAGGTGGTAGAAT  
 ACAGCGAGATCTCTGGCAACAGCTCAAAGGCGAAGTTCAGATGGACGGCTGCTGTTCAATGCAGGGAA  
 CATTGCCAATCACTTCTCACTGTCCTGTTCTGAAAGATGTTGTCAATGTTATGAACCTCAGTTGCAG  
 CACCATGTGGCTCAAAGAAGATTCATATGTGGACTCCAGGGGCACTTCATTAAGCCAGACAAGCCAA  
 ATGGAATAAAGATGAAAAATTTGTCTTTGACATCTTCCAGTTTGCAAAGAAGTTTGGTGTATGAAGT  
 ATTACGGGAAGATGAGTTTTCCCGCTCAAGAATGCAGACAGTCAAGACGGGAAGGACAACCCGACCACA  
 GCAAGGCATGCTTTGATGTCCTTACCCTGCTGGTCCCAATGCCGGGGGACACTTCATAGATGAGA  
 ATGGCTCTCGCTCCAGCCATCCCCGTGCTACAAATGAAAAGTCAAGAGCCATCACAGCTGATGTCAA  
 TCACAACCTGAAAGATGCCAATGATGTACCGATCCAGTGTGAAATCTCTCCCTCATCTTATGCTGGA  
 GAGGGCTTGAAGTTATGTGGCAGATAAAGAGTTCATGCACCGCTAATCATCGATGAGAATGGAGTTC  
 ATGAGCTGGTAAAAATGGCATA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208342 representing NM\_133806  
 Red=Cloning site Green=Tags(s)

MNVNDLKQRLSQAGQEHLQFWNELSEAQQVELYMELQAMNFEELNSFFRKAIGEFDRSSHQEKVDARME  
 PVPRQVLGSATRDQEQQLQAWSEGLSQISQNKVAVLLLAGGQGTRLGVSYPKGMVDVGLPSHKTFLFQIQ  
 ERILKLQQLAEKHHGNKCTIPWYIMTSGRTMESTKEFFTKHKFFGLKKENVVFFQQGMLPAMSFDKIIL  
 EEKNKVS MAPDNGGLYRALAAQNI VEDMEQRGICSIHVYCVDNILVKVADPRF IGFCIQKGADCGAKVV  
 EKTNPTEPVGVVCRVDGVYQVVEYSEISLATAQRRSSDGRLLFNAGNIANHFVTPFLKDVVNVYEPQLQ  
 HHVAQKKIPYVDSQGHFIKPKPNGIKMEKFVDFIQFAKKFVYVEVLEDEF SPLKNADSQNGKDNPTT  
 ARHALMSLHHCWVLNAGGHFIDENGSR LPAIPRATNGKSEAITADVNHLKDANDVPIQCEISPLISYAG  
 ELEGYVADKEFHAPLIIDENGVELVKNGI

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

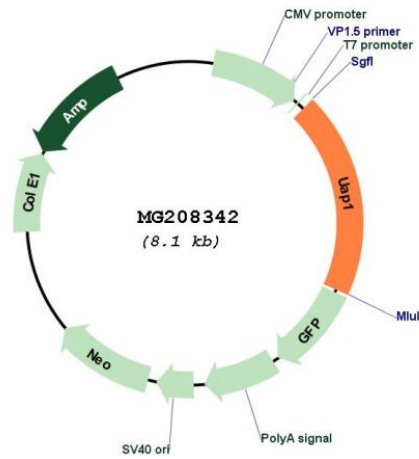
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



<b>ACCN:</b>	NM_133806
<b>ORF Size:</b>	1563 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_133806.5</a>
<b>RefSeq Size:</b>	2283 bp
<b>RefSeq ORF:</b>	1566 bp
<b>Locus ID:</b>	107652
<b>UniProt ID:</b>	<a href="#">Q91YN5</a>
<b>Cytogenetics:</b>	1 H3
<b>Gene Summary:</b>	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 (By similarity).[UniProtKB/Swiss-Prot Function]