

## Product datasheet for **RG203706**

### **GBA2 (NM\_020944) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GBA2 (NM_020944) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GBA2
Synonyms:	AD035; NLGase; SPG46
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG203706 representing NM\_020944  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGGACCCAGGATCCAGGGAACATGGGAACCGCGTCCAGCCTCGGAGCAGATAAGCTGTGCCAAAG  
 AGGATCCACAAGTTTATTGCCCTGAAGAGACTGGCGGCACCAAGGATGTGCAGGTTACAGACTGTAAAGAG  
 TCCCGAAGACAGCCGACCCCAAAAGAGACGGACTGCTGCAATCCGGAGGACTCTGGGCAGCTGATGGTT  
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 GCTAGCCCTGCAACAGCAGCAGCACAAAAGGCCCTCTGGCCAAAAGTCAAACAGGGCACAGGACTAAGG  
 ACAGGGCCTATGTTTGGACCAAAGGAAGCCATGGCAAACCTGAGCCAGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG203706 representing NM\_020944  
Red=Cloning site Green=Tags(s)

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MGTQDPGNMGTGVPASEQISCAKEDPQVYCP EETGGTKDVQVTDCKSPEDSRPPKETDCCNPEDSGQLMV
SYEGKAMGYQVPPFGWRICLAHEFTEKRKPFQANNVSLSNMIKHIGMLR YLQWWRKTHVEKKTFFIDM
INSVPLRQIYGCP LGGIGGGTITRGWRGQFCRWQLNPGMYQHRTVIADQFTVCLRREGQTVYQQVLSLER
PSVLRSNWGLCGYFAFYHALYPRAWTVYQLPGQNVTLTCRQITPILPHDYQDSSL PVGVFVWDVENEED
EALDVSIMFSMRNGLGGDDAPGGLWNEPFCLE RSGETVRGLLLHHPTLPNPYTMVAARVTAATTVTHI
TAFDPDSTGQQVWQDLLQDQQLD SPTGQSTPTQKGVGIAGAVCVSSKLRPRGQCRLEFSLAWDMPRIMFG
AKGQVHYRRYTRFFGQDGAAPALSHYALCRYAEWEERISAWQSPVLD RSLPAWYKSALFNELYFLADG
GTWVLEVL EDSLPEELGRNMCHLRPTLRDYGRFGYLEGQEYRMYNTYDVHFYASFALIMLWPKLELSLQY
DMALATLREDLRRRRLMSGVMAPVKRRNVIPHDIGDPDDEPWL RVNAYLIHDTADWKDLNLKFVLQVYR
DYLLTGDNFLKDMWPVCLAVMESEMKFDKDHDGLIENGGYADQTYDGWVTTGPSAYCGGLWLA AVAVMV
QMAALCGAQDIQDKFSSILSRGQEAYERLLWNGRYNYDSSSRPQRSVMSDQCAGQWFLKACGLGEGDT
EVFPTQHVVRALQTI FELNVQAFAGGAMGAVNGMQPHGV PDKSSVQSDEVWVG VVYGLAATMIQEGLTWE
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TGPMFGPKEAMANLSPE
```

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

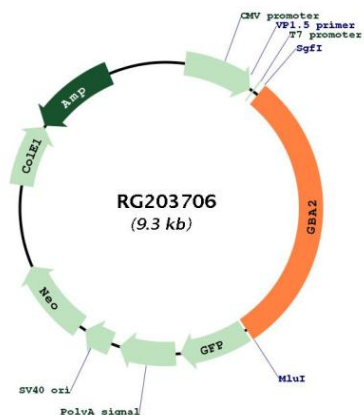
**Cloning Scheme:**



**ACCN:** NM\_020944

<b>ORF Size:</b>	2781 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_020944.3</a>
<b>RefSeq Size:</b>	3639 bp
<b>RefSeq ORF:</b>	2784 bp
<b>Locus ID:</b>	57704
<b>UniProt ID:</b>	<a href="#">Q9HCG7</a>
<b>Cytogenetics:</b>	9p13.3
<b>Domains:</b>	DUF608
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	This gene encodes a microsomal beta-glucosidase that catalyzes the hydrolysis of bile acid 3-O-glucosides as endogenous compounds. Studies to determine subcellular localization of this protein in the liver indicated that the enzyme was mainly enriched in the microsomal fraction where it appeared to be confined to the endoplasmic reticulum. This putative transmembrane protein is thought to play a role in carbohydrate transport and metabolism. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG203706