

Product datasheet for **RG211035**

GBA3 (NM_020973) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GBA3 (NM_020973) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GBA3
Synonyms:	CBG; CBGL1; GLUC; KLRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG211035 representing NM_020973
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTTCCCTGCAGGATTTGGATGGGCGGCAGCCACTGCAGCTTATCAAGTAGAAGGAGGCTGGGATG
 CAGATGGAAGGCCCTTGTGTCTGGGACACATTTACTCATCAGGGAGGAGAGAGATTTTCAAGAACCA
 GACTGGCGATGTAGCTTGTGGCAGCTACACTCTGTGGGAGGAAGATTTGAAATGTATCAAACAGCTTGGA
 TTGACTCATTACCGCTTCTCTTTCTGGTCACTGTGTACCTGATGGGACGACAGGTTTCATCAACC
 AGAAAGGAATTGATTATTACAACAAGATCATCGATGATTTGTTAAAAATGGGGTACTCCCATTGTGAC
 CCTCTACCACTTTGATTTGCCTCAGACTTTAGAAGACCAAGGAGGTTGGTTGTCAGAGGCAATCATTGAA
 TCCTTTGACAAAATGCTCAGTTTGTCTCAGTACCTTTGGGGATCGTGTCAAGCAGTGGATCACCATAA
 ATGAAGCTAATGTTCTTCTGTGATGCATATGACTTAGGTATGTTTCTCCGGGTATCCCTCACTTTGG
 GACTGGAGGTTATCAGGCAGCTCATAATTTGATTAAGGCTCATGCCAGATCCTGGCACAGCTATGATTCC
 TTATTTGAAAAAGCAGAAAGGTATGGTGTCTATCACTTTTTGCGGTCTGGTTGGAACCAGCAGATC
 CCAACTCAGTGTCTGACCAGGAAGCTGCTAAAAGAGCCATCACTTTCCATCTGGATTTATTTGCTAAACC
 CATATTCATCGATGGTGATTATCCTGAAGTTGTCAAGTCTCAGATTGCCTCCATGAGTCAAAGCAAGGC
 TATCCATCATCGAGGCTTCCAGAATTCCTGAAGAAGAGAAGAAAATGATCAAAGGCACTGCTGATTTTT
 TTGCTGTGCAATATTATACAACTCGCTTAATCAAGTACCAGGAGAACAAGAAAGGAGAAGTGGTATTCT
 CCAGGATGCGGAAATGAATTTTTCCAGATCCATCTGGAAAAATGGGATTGGATCTACGTGGTACCA
 TGGGGAGTATGTAAGTACTGAAATATATTAAGGATACATATAAACCCTGTAATTTACATCACTGAGA
 ATGGGTTTCCCCAGAGTGACCCAGCGCCTTTGATGACACTCAACGCTGGGAGTATTTAGACAAAACATT
 TCAGGAAGTGTCAAAGCTATCCAAGTATAAAGTCAATCTTCAAGTATATTGTGCATGGTCTCTTCTG
 GATAACTTTGAGTGAACCAGGGATACAGCAGCCGGTTTGGTCTCTTCCAGTTGATTTTGAAGCCAG
 CTAGACCCGAGTCCCTTACACATCGGCCAAGGAATATGCCAAGATCATCCGAAACAATGGCCTTGAAGC
 ACATCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG211035 representing NM_020973
 Red=Cloning site Green=Tags(s)

MAFPAGFGWAAATAAYQVEGGWDADGKGPCVWDTFTHQGGERVFNQTDVACGSYTLWEEDLKCIKQLG
 LTHYRFSLSWSRLLPDGTTGFINQKIDYNNKIIDDLLKNGVTPIVTLYHFDLPQTLEDQGGWLSAIIIE
 SFDKYAQFCSTFGDRVKQWITINEANVLSVMSYDLGMFPPGIPHFGTGGYQAAHNLKHAHRSWHSYDS
 LFRKKQKGMVSLSLFAVWLEPADPNSVSDQEAARKRAITFHLDLFAKPIFIDGDYPEVVKSQIASMSQKQG
 YPSSRLPEFTEEEKMIKGTADFFAVQYYTTRLIKYQENKKGELGILQDAEIEFFPDPSWKNVDWIYVVP
 WGVCLLKLIKDYNNPVIYITENGFPQSDPAPLDDTQRWEYFRQTFQELFKAIQLDKVNLQVYCAWSLL
 DNFEWNQGYSSRFLFHVDFEDPARPRVPYSAKEYAKIIRNNGLEAHL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_020973

ORF Size: 1407 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

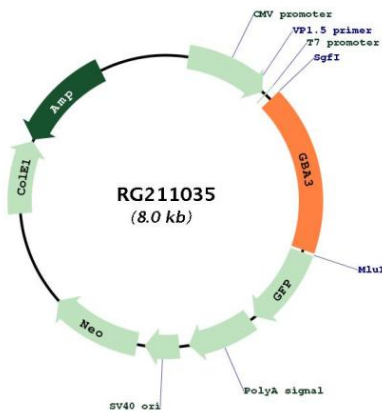
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_020973.4</u>
RefSeq Size:	2125 bp
RefSeq ORF:	1410 bp
Locus ID:	57733
UniProt ID:	<u>Q9H227</u>
Cytogenetics:	4p15.2
Protein Pathways:	Cyanoamino acid metabolism, Starch and sucrose metabolism
Gene Summary:	The protein encoded by this gene is an enzyme that can hydrolyze several types of glycosides. This gene is a polymorphic pseudogene, with the most common allele being the functional allele that encodes the full-length protein. Some individuals, as represented by the reference genome allele, contain a single nucleotide polymorphism that results in a premature stop codon in the coding region, and therefore this allele is pseudogenic due to the failure to produce a functional full-length protein. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Mar 2013]

Product images:



Circular map for RG211035