

Product datasheet for **RG225153**

GBA3 (NM_001128432) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GBA3 (NM_001128432) 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)
ORF Nucleotide Sequence: >RG225153 representing NM_001128432
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTTTCCTGCAGGATTTGGATGGGCGGCAGCCACTGCAGCTTATCAAGTAGAAGGAGGCTGGGATG
 CAGATGGAAAAGGCCCTTGTGTCTGGGACACATTTACTCATCAGGGAGGAGAGAGATTTTCAAGAACCA
 GACTGGCGATGTAGCTTGTGGCAGCTACACTCTGTGGGAGGAAGATTTGAAATGTATCAACAGCTTGA
 TTGACTCATTACCGCTTCTCTTTCTGGTACGTCTGTTACCTGATGGGACGACAGGTTTCATCAACC
 AGAAAGCTATCCAACCTTGATAAAGTCAATCTTCAAGTATATTGTGCATGGTCTTCTCTGGATAACTTGA
 GTGGAACCAAGGATACAGCAGCCGGTTTGGTCTCTCCACGTTGATTTTGAAGACCCAGCTAGACCCCGA
 GTCCTTACACATCGCCAAGGAATATGCCAAGATCATCCGAAACAATGGCCTTGAAGCACATCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG225153 representing NM_001128432
 Red=Cloning site Green=Tags(s)

MAFPAGFGWAAATAAYQVEGGWDADGKGPCVWDTFTHQGGERVFKNQTDVACGSYTLWEEDLKCIKQLG
 LTHYRFSLSWSRLLPDGTTGFINQKAIQLDKVNLQVYCAWSLLDNFEWNQGYSSRFLGFHVDFEDPARPR
 VPYTSKEYAKIIRNNGLEAHL

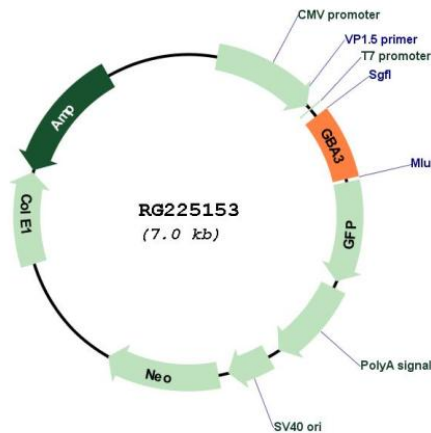
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001128432

ORF Size: 486 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:	<ol style="list-style-type: none">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_001128432.2</u>
RefSeq Size:	1226 bp
RefSeq ORF:	489 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]