

Product datasheet for **RG230165**

GBA (NM_001171812) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GBA (NM_001171812) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GBA
Synonyms:	GBA1; GCB; GLUC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230165 representing NM_001171812
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGTTTTCAAGTCCTTCCAGAGAGGAATGTCCCAAGCCTTTGAGTAGGGTAAGCATCATGGCTGGCA
 GCCTCACAGGATTGCTTCTACTTCAGGCAGTGTGTGGGCATCAGGTGCCGCCCCCTGCATCCCTAAAAG
 CTTCCGGCTACAGCTCGGTGGTGTGTCTGCAATGCCACATACTGTGACTCCTTTGACCCCCGACCTTT
 CCTGCCCTTGGTACCTTCAGCCGCTATGAGAGTACACGCAGTGGGCGACGGATGGAGCTGAGTATGGGGC
 CCATCCAGGCTAATCACACGGGCACAGGAATCGGATATAACATCATCCGGGTACCCATGGCCAGCTGTGA
 CTTCTCCATCCGCACCTACACCTATGCAGACACCCCTGATGATTTCCAGTTGCACAACCTCAGCCTCCCA
 GAGGAAGATACCAAGCTCAAGATACCCCTGATTCACCGAGCCCTGCAGTTGGCCAGCGTCCCGTTTCAC
 TCCTTGCCAGCCCTGGACATCACCCACTTGGCTCAAGACCAATGGAGCGGTGAATGGGAAGGGGTCCT
 CAAGGGACAGCCCGGAGACATCTACCACGACCTGGGCCAGATACTTTGTGAAGTTCCTGGATGCCTAT
 GCTGAGCACAAGTTACAGTTCCTGGCAGTGACAGCTGAAAATGAGCCTTCTGCTGGGCTGTTGAGTGGAT
 ACCCCTTCCAGTGCCTGGGCTTACCCCTGAACATCAGCGAGACTTCATTGCCCGTGACCTAGGTCCCTAC
 CCTCGCCAAAGTACTCACACAATGTCCGCCTACTCATGCTGGATGACCAACGCTTGTGCTGCCCCAC
 TGGGCAAAGGTGGTACTGACAGACCCAGAAGCAGCTAAATATGTTTCATGGCATTGCTGTACATTGGTACC
 TGGACTTTCTGGCTCCAGCCAAAGCCACCTAGGGGAGACACACCCGCTGTTCCCAACACCATGCTCTT
 TGCTCAGAGGCTGTGTGGCTCCAAGTCTGGGAGCAGAGTGTGCGGCTAGGCTCCTGGGATCGAGGG
 ATGCAGTACAGCCACAGCATCATCACGAACCTCCTGTACCATGTGGTTCGGCTGGACCGACTGGAACCTTG
 CCCTGAACCCCGAAGGAGGACCCCAATTGGGTGCGTAACTTTGTCGACAGTCCCATTGTAGACATCAC
 CAAGGACAGCTTTTACAACAGCCCATGTTCTACCACCTTGCCACTTCAGCAAGTTCATTCTGAGGGC
 TCCAGAGAGTGGGCTGGTTGCCAGTCAAGAAGACCTGGACGCAGTGGCACTGATGCATCCCGATG
 GCTCTGCTGTTGTGGTCGTGCTAAACCGCTCCTCTAAGGATGTGCTCTTACCATCAAGGATCCTGCTGT
 GGGCTTCTGGAGACAATCTCACCTGGCTACTCCATTCACACCTACCTGTGGCGTCGCCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230165 representing NM_001171812
 Red=Cloning site Green=Tags(s)

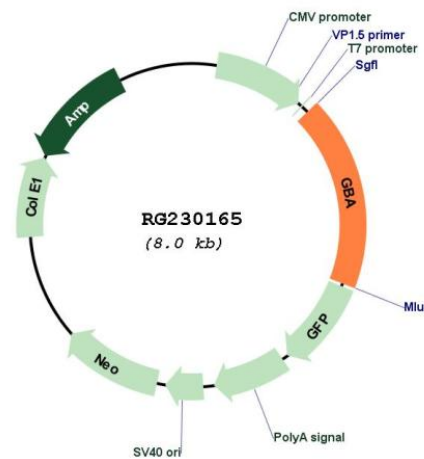
MEFSSPSREECPKPLSRVSI MAGSLTGLLLLQAVSWASGARPCIPKSFYSSVVCVSNATYCDSDFPPTF
 PALGTFSTRYESTRSGRRMELSMGPIQANHTGTGIGYNIIRVPMASCDFSIRTYTYADTPDDFQLHNFSLP
 EEDTKLKIPLIHRALQLAQRPVSLLASPWTSPWLKTNGAVNGKGLKQPGDIYHQTWARYFVKFLDAY
 AEHKLQFVAVTAENEPSAGLLSGYPFQCLGFTPEHQDFIARDLGPTLANSTHNVRLMLDDQRLLLP
 WAKVVLTDPEAAKYVHGI AVHWYLDLAPAKATLGETHRLFPNTMLFASEACVGSKFWEQSVRLGSWDRG
 MQYSHSIIITNLLYHVVGWTDWNLALNPEGPNWVRNFVDSPIIVDITKDTFYKQPMFYHLGHFSKFIPEG
 SQRVGLVASQKNDLDAVALMHPDGS AVVVVLRSSKDVPLTIKDPVGFLETISPYSIHTYLWRRQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Plasmid Map:


ACCN: NM_001171812

ORF Size: 1461 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:	NM_001171812.2
RefSeq Size:	2174 bp
RefSeq ORF:	1464 bp
Locus ID:	2629
UniProt ID:	P04062
Cytogenetics:	1q22
Protein Families:	Druggable Genome
Protein Pathways:	Lysosome, Metabolic pathways, Other glycan degradation, Sphingolipid metabolism
Gene Summary:	This gene encodes a lysosomal membrane protein that cleaves the beta-glucosidic linkage of glycosylceramide, an intermediate in glycolipid metabolism. Mutations in this gene cause Gaucher disease, a lysosomal storage disease characterized by an accumulation of glucocerebrosides. A related pseudogene is approximately 12 kb downstream of this gene on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2010]