

Product datasheet for **RG230104**

GBA (NM_001171811) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GBA (NM_001171811) 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:

>RG230104 representing NM_001171811
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTTTTCAAGTCCTTCCAGAGAGGAATGTCCCAAGCCTTTGAGTAGGGTAAGCATCATGGCTGGCA
 GCCTCACAGGATTGCTTCTACTTTCAGGCAGTGTGTGGGCATCAGGTGCCCGCCCTGCATCCCTAAAAG
 CTTTCGGCTACAGCTCGGTGGTGTGTGTCTGCAATGCCACATACTGTGACTCCTTTGACCCCCGACCTTT
 CCTGCCCTTGGTACCTTACGCCGCTATGAGAGTACACGCAGTGGGCGACGGATGGAGCTGAGTATGGGGC
 CCATCCAGGCTAATCACACGGGCACAGGCTGCTACTGACCCTGCAGCCAGAACAGAAGTCCAGAAAGT
 GAAGGGATTTGGAGGGGCCATGACAGATGCTGCTGCTCTCAACATCCTTGCCTGTCACCCCTGCCCAA
 AATTTGCTACTTAAATCGTACTTCTCTGAAGAAGGAATCGGATATAACATCATCCGGGTACCCATGGCCA
 GCTGTGACTTCTCCATCCGCACCTACACCTATGCAGACACCCCTGATGATTTCCAGTTGCACAACTCAG
 CCTCCAGAGGAAGATACCAAGCTCAAGATACCCCTGATTCACCGAGCCCTGCAGTTGGCCAGCGTCCC
 GTTTCACCTCCTTGCCAGCCCTGGACATCACCCACTTGGCTCAAGACCAATGGAGCGGTGAATGGGAAGG
 GGTCACTCAAGGGACAGCCCGGAGACATCTACCACCAGACCTGGGCCAGATACTTTGTGAAGTTCCTGGA
 TGCCATGCTGAGCACAAGTTACAGTCTGGGCAGTGACAGCTGAAAATGAGCCTTCTGCTGGGCTGTTG
 AGTGGATACCCCTTCCAGTGCCTGGGCTTACCCTGAACATCAGCGAGACTTCATTGCCCGTGACCTAG
 GTCCTACCCTCGCCAACAGTACTACCACAATGTCGCCCTACTCATGCTGGATGACCAACGCTTGTCTGT
 GCCCACTGGGCAAGGTGGTACTGACAGACCCAGAAGCAGCTAAATATGTTTATGGCATTGCTGTACAT
 TGGTACCTGGACTTTCTGGCTCCAGCCAAAGCCACCCTAGGGGAGACACACCCGCTGTTCCCAACACCA
 TGCTCTTTGCCTCAGAGGCTGTGTGGCTCCAAGTTCTGGGAGCAGAGTGTGCGGCTAGGCTCCGGA
 TCGAGGGATGCAGTACAGCCACAGCATCATCAGAACCTCCTGTACCATGTGGTTCGGCTGGACCGACTGG
 AACCTTGCCTGAACCCGAAGGAGGACCAATTGGGTGCGTAACTTTGTCGACAGTCCCATCATTGTAG
 ACATCACCAAGGACACGTTTTACAACAGCCCATGTTCTACCACCTTGGCCACTTCAGCAAGTTCATTCC
 TGAGGGCTCCCAGAGAGTGGGCTGGTTGCCAGTCAGAAGAACGACCTGGACGCAGTGGCACTGATGCAT
 CCCGATGGCTCTGCTGTTGTGGTCTGCTAAACCCTCCTCTAAGGATGTGCTCTTACCATCAAGGATC
 CTGCTGTGGGCTCCTGGAGACAATCTCACCTGGCTACTCCATTCACACCTACCTGTGGCGTCGCCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230104 representing NM_001171811
 Red=Cloning site Green=Tags(s)

MEFSSPSREECPKPLSRVSIIMAGSLTGLLLLQAVSWASGARPCIPKSFYSSVVCVSNATYCDSDPPTF
 PALGTFSTRYESTRSGRRMELSMGPIQANHTGTGLLLTLQPEQKFKVKVGGAMTDAALNILALSPPAQ
 NLLLKSYFSEEGIGYNIIRVPMASCDFSIRTYTYADTPDDQLHNFSLPEEDTKLKIPLIHRALQLAQRP
 VSLLASPWTSPTWLKTNQAVNGKSLKGQPGDIYHQTWARYFVKFLDAYAEHKLQFVAVTAENEPSAGLL
 SGYPFQCLGFTPEHQDFIARDLGPTLANSTHNVRLMLDDQRLLLPHWAKVVLTDPEAAKYVHGIADVH
 WYLDLAPAKATLGETHRLFPNTMLFAEACVGSKFWEQSVRLGSWDRGMQYSHSIITNLLYHVVGWTDW
 NLALNPEGPNWVRNFVDSPIIVDITKDTFYKQPMFYHLGHFSKFIPEGSQVRVGLVASQKNDLDAVALMH
 PDGSAVVVVLNRSSKDVPLTIKDPVGFLETISPGYSIHTYLWRRQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001171811
ORF Size:	1611 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_001171811.1 , NP_001165282.1
RefSeq Size:	2400 bp
RefSeq ORF:	1350 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]