

Product datasheet for **RC230104**

GBA (NM_001171811) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GBA (NM_001171811) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GBA
Synonyms:	GBA1; GCB; GLUC
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC230104 representing NM_001171811
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTTTTCAAGTCCCTCCAGAGAGGAATGTCCCAAGCCTTTGAGTAGGGTAAGCATCATGGCTGGCA
 GCCTCACAGGATTGCTTCTACTTCAGGCAGTGTGTGGGCATCAGGTGCCGCCCCGTCATCCCTAAAAG
 CTTGCGCTACAGCTCGGTGGTGTGTGTCTGCAATGCCACATACTGTGACTCCTTTGACCCCCGACCTTT
 CCTGCCCTTGGTACCTTCAGCCGCTATGAGAGTACACGCAGTGGGCGACGGATGGAGCTGAGTATGGGGC
 CCATCCAGGCTAATCACACGGGCACAGGCTGCTACTGACCCTGCAGCCAGAACAGAAGTCCAGAAAGT
 GAAGGGATTTGGAGGGGCCATGACAGATGCTGCTGCTCTCAACATCCTTGCCTGTCACCCCTGCCCAA
 AATTTGCTACTTAAATCGTACTTCTCTGAAGAAGGAATCGGATATAACATCATCCGGGTACCCATGGCCA
 GCTGTGACTTCTCCATCCGCACCTACACCTATGCAGACACCCCTGATGATTTCCAGTTGCACAACTCAG
 CCTCCAGAGGAAGATACCAAGCTCAAGATACCCCTGATTACCCGAGCCCTGCAGTTGGCCAGCGTCCC
 GTTTCACCTCCTTGCCAGCCCTGGACATCACCCACTTGGCTCAAGACCAATGGAGCGGTGAATGGGAAGG
 GGTCACTCAAGGGACAGCCCGGAGACATCTACCACCAGACCTGGGCCAGATACTTTGTGAAGTTCCTGGA
 TGCCATGCTGAGCACAAGTTACAGTCTGGGCAGTGACAGCTGAAAATGAGCCTTCTGCTGGGCTGTTG
 AGTGGATACCCCTCCAGTGCCTGGGCTTACCCTGAACATCAGCGAGACTTCATTGCCCGTGACCTAG
 GTCCTACCCTCGCCAACAGTACTACCACAATGTCGCTACTCATGCTGGATGACCAACGCTTGTCTGT
 GCCCACTGGGCAAGGTGGTACTGACAGACCCAGAAGCAGCTAAATATGTTTCAATGGCATTGCTGTACAT
 TGGTACCTGGACTTTCTGGCTCCAGCCAAAGCCACCCTAGGGGAGACACCCGCTGTTCCCAACACCA
 TGCTCTTTGCCTCAGAGGCTGTGTGGCTCCAAGTTCTGGGAGCAGAGTGTGCGCTAGGCTCCATGGGA
 TCGAGGGATGCAGTACAGCCACAGCATCATCAAGAACCTCCTGTACCATGTGGTGGCTGGACCGACTGG
 AACCTTGCCTGAACCCGAAGGAGGACCAATTGGGTGCGTAACTTTGTCGACAGTCCCATCATTGTAG
 ACATCACCAAGGACACGTTTTACAACAGCCCATGTTCTACCACCTTGGCCACTTCAGCAAGTTCATTCC
 TGAGGGCTCCCAGAGAGTGGGCTGTTGCCAGTCAAGAAGCAGCTGGACGAGTGGCACTGATGCAT
 CCCGATGGCTCTGCTGTTGTGGTCTGCTAAACCCTCCTCAAGGATGTGCTCTTACCATCAAGGATC
 CTGCTGTGGGCTCCTGGAGACAATCTCACCTGGCTACTCCATTCACACCTACCTGTGGCGTCGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230104 representing NM_001171811
 Red=Cloning site Green=Tags(s)

MEFSSPSREECPKPLSRVSI MAGSLTGLLLLQAVSWASGARPCIPKSFYSSVVCVSNATYCDFDPPTF
 PALGTFSTRYESTRSGRMELSMGPIQANHTGTGLLLTLQPEQKFQKVKFGGAMTDAALNIALSPPAQ
 NLLLLKSYFSEEGIGYNIIRVPMASCDIFSIRTYTYADTPDDFQLHNFSLPEEDTKLKIPLIHRALQLAQR
 VSLLASPWTSPWLKTNGAVNGKSLKQPGDIYHQTWARYFVKFLDAYAEHKLQFWAVTAENEPSAGLL
 SGYPFQCLGFTPEHQRFIARDLGPLANSTHNVRLMLDDQRLLLPHWAKVVLTDPEAAKYVHGIADV
 WYLDLFLAPAKATLGETHRLFPNTMLFASEACVGSKFWEQSVRLGSWDRGMQYSHSIITNLLYHVVGWTDW
 NLALNPEGGPNWVRNFVDSPIIVDITKDTFYKQPMFYHLGHFSKFIPEGSQRVGLVASQKNDLDAVALMH
 PDGSAVVVVLNRSSKDVPLTIKDPVAGFLETISPYSIHTYLWRRQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

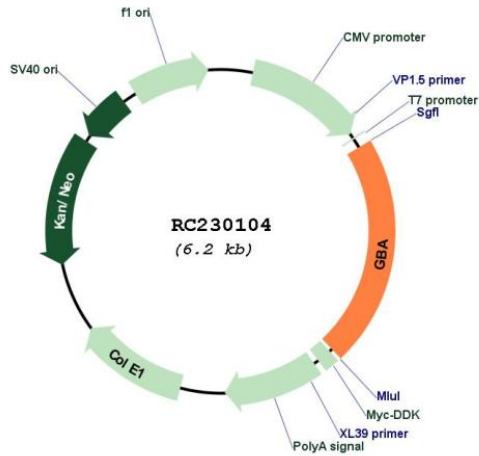
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



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
MW:	59.7 kDa
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]