

Product datasheet for **RC230165**

GBA (NM_001171812) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GBA (NM_001171812) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GBA
Synonyms:	GBA1; GCB; GLUC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC230165 representing NM_001171812
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTTTTCAAGTCCTTCCAGAGAGGAATGTCCCAAGCCTTTGAGTAGGGTAAGCATCATGGCTGGCA
 GCCTCACAGGATTGCTTCTACTTACAGGCAGTGTGTGGGCATCAGGTGCCCGCCCTGCATCCCTAAAAG
 CTTCCGGCTACAGCTCGGTGGTGTGTCTGCAATGCCACATACTGTGACTCCTTTGACCCCCGACCTTT
 CCTGCCCTTGGTACCTTACGCCGTATGAGAGTACACGCAGTGGGCGACGGATGGAGCTGAGTATGGGGC
 CCATCCAGGCTAATCACACGGGCACAGGAATCGGATATAACATCATCCGGGTACCCATGGCCAGCTGTGA
 CTTCTCCATCCGCACCTACACCTATGCAGACACCCCTGATGATTTCCAGTTGCACAACTTCAACCTCCCA
 GAGGAAGATACCAAGCTCAAGATACCCCTGATTCACCGAGCCCTGCAGTTGGCCAGCGTCCCGTTTAC
 TCCTTGCCAGCCCTGGACATCACCCACTTGGCTCAAGACCAATGGAGCGGTGAATGGGAAGGGTCACT
 CAAGGGACAGCCCGGAGACATCTACCACCAGACCTGGGCCAGATACTTTGTGAAGTTCCTGGATGCCTAT
 GCTGAGCACAAGTTACAGTTCCTGGCAGTGACAGCTGAAAATGAGCCTTCTGCTGGGCTGTTGAGTGGAT
 ACCCCTTCCAGTGCCTGGGCTTACCCCTGAACATCAGCGAGACTTCATTGCCCGTGACCTAGGTCTAC
 CCTCGCCAAAGTACTCACACAATGTCCGCCTACTCATGCTGGATGACCAACGCTTGTCTGCTGCCCCAC
 TGGGCAAAGGTGGTACTGACAGACCCAGAAGCAGCTAAATATGTTTCATGGCATTGCTGTACATTGGTACC
 TGGACTTTCTGGCTCCAGCCAAAGCCACCTAGGGGAGACACACCCGCTGTTCCCAACACCATGCTCTT
 TGCTCAGAGGCTGTGTGGGCTCCAAGTCTGGGAGCAGAGTGTGCGGCTAGGCTCCTGGGATCGAGGG
 ATGCAGTACAGCCACAGCATCATCACGAACCTCCTGTACCATGTGGTTCGGCTGGACCGACTGGAACCTTG
 CCCTGAACCCCGAAGGAGGACCAATTTGGGTGCGTAACCTTGTGACAGTCCCATCATTGTAGACATCAC
 CAAGGACACGTTTTACAACAGCCCATGTTCTACCACCTTGCCACTTCAGCAAGTTCATTCTGAGGGC
 TCCAGAGAGTGGGCTGGTTGCCAGTCAAGAAGACGACCTGGACGCAGTGGCACTGATGCATCCCGATG
 GCTCTGCTGTTGTGGTCTGCTAAACCGCTCCTCTAAGGATGTGCTCTTACCATCAAGGATCCTGCTGT
 GGGCTTCTGGAGACAATCTCACCTGGCTACTCCATTCACACCTACCTGTGGCGTCGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230165 representing NM_001171812
 Red=Cloning site Green=Tags(s)

MEFSSPSREECPKPLSRVSIAGSLTGLLLLQAVSWASGARPCIPKSFYSSVVCVNCATYCDSDPPTF
 PALGTFSTRYESTRSGRRMELSMGPIQANHTGTGIGYNIIRVPMASCDFSIRTYTYADTPDDFQLHNFSLP
 EEDTKLKIPLIHRALQLAQRVSVLLASPTWLTNGAVNGKSLKQPGDIYHQTWARYFVKFLDAY
 AEHKLQFVAVTAENEPSAGLLSGYPFQCLGFTPEHQDFIARDLGPTLANSTHNVRLMLDDQRLLLPH
 WAKVVLTDPEAAKYVHGI AVHWYLDLAPAKATLGETHRLFPNTMLFAEACVGSKFWEQSVRLGSDWRG
 MQYSHSIIITNLLYHVVGWTDWNLALNPEGPNWVRNFVDSPIIVDITKDTFYKQPMFYHLGHFSKFIPEG
 SQRVGLVASQKNDLDAVALMHPDGSVVVVLNRSSKDVPLTIKDPVGFLETISPYSIHTYLWRRQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8064_h12.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


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:

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 ORF: 1464 bp

Locus ID: 2629

UniProt ID: [P04062](#)

Cytogenetics: 1q22

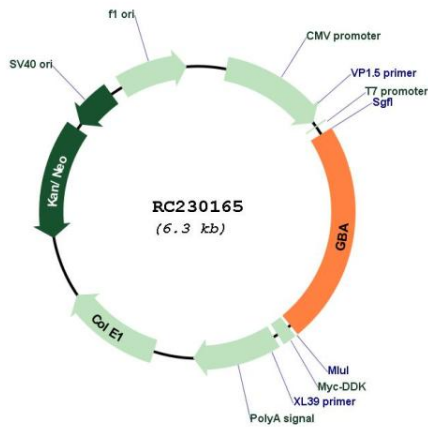
Protein Families: Druggable Genome

Protein Pathways: Lysosome, Metabolic pathways, Other glycan degradation, Sphingolipid metabolism

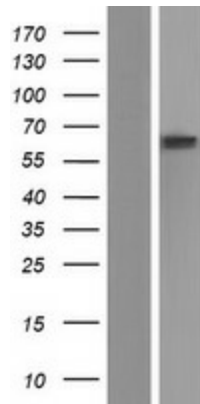
MW: 54.9 kDa

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]

Product images:



Circular map for RC230165



Western blot validation of overexpression lysate (Cat# [LY433165]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC230165 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).