OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TP511175

Gba2 (NM_172692) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse glucosidase beta 2 (Gba2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211175 representing NM_172692 Red=Cloning site Green=Tags(s) MVTCVPASEQVGCAERDSQVYCEDTGGTEAVRVTDCGSPEDSGPQDEPSYCNSEDSGQLMASYEGKARGY QVPPFGWRICLAHEFAEKRRPFQANNISLSNLVKHLGMGLRYLKWWYRKTHVEKKTPFIDMLNSLPLRQI YGCPLGGIGGGTITRGWRGQFCRWQLNPGMYQHQTVIADQFIVCLRRDGRTVYQQVLSLELPNVLRSWNW GLCGYFAFYHALYPRAWTVYQLPGQNVTLTCRQVTPILPHDYQDSSLPVGVFVWDVENEGDETLDVSITF SMRNGLGGEDDAAGSLWNEPFRLEQGGTTVQGLLLHHPTPPNPYTMAVAARCTADTTVTHTTAFDPNGTG QQVWQDLLQDGQLDSPAGQSTPTQKGEGIAGAVCVSSKLLPRSRCCLEFSLAWDMPKIMFGAKSQVHYRR YTRFFGSDGDVAPALSHYALCHYADWEDRISAWQNPVLDDRTLPAWYKSALFNELYFLADGGTVWLEVPA DSLPEGLGGSMRQLRSTLQDYGRFGYLEGQEYRMYNTYDVHFYASFALVMLWPKLELSLQYDMALATLKE DLTRRRYLMSGVVAPVKRRNVIPHDIGDPDDEPWLRVNAYLIHDTADWKDLNLKFVLQIYRDYYLTGDQG FLEDMWPVCLAVMESEMKFDKDQDGLIENGGYADQTYDAWVTTGPSAYCGGLWLAAVAVMVQMAVLCGAQ DVQERFASILCRGREAYERLLWNGRYYNYDSSSHPQSRSIMSDQCAGQWFLRACGLGEGDTEVFPTLHVV RALQTIFELNVQAFAGGAMGAVNGMHPHGVPDRSSVQSDEVWVGVVYGLAATMIQEGLTWEGFRTAEGCY RTVWERLGLAFQTPEAYCQQQVFRSLAYMRPLSIWAMQLALQQQQHKKSRRPSVTQGTGLSTQPECGPKR SLANLNSE TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	103.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_766280
Locus ID:	230101
UniProt ID:	Q69ZF3
RefSeq Size:	3552
Cytogenetics:	4 A5
RefSeq ORF:	2754
Synonyms:	F630034E04
Summary:	Non-lysosomal glucosylceramidase that catalyzes the hydrolysis of glucosylceramide (GlcCer) to free glucose and ceramide (PubMed:17080196, PubMed:23250757). Glucosylceramides are membrane glycosphingolipids that have a wide intracellular distribution (PubMed:23250757). They are the main precursors of more complex glycosphingolipids that play a role in cellular growth, differentiation, adhesion, signaling, cytoskeletal dynamics and membrane properties (PubMed:25803043). Also involved in the transglucosylation of cholesterol, transferring glucose from glucosylceramides, thereby modifying its water solubility and biological properties (PubMed:26724485). Under specific conditions, may catalyze the reverse reaction, transferring glucose from cholesteryl-beta-D-glucoside to ceramide (PubMed:26724485). Finally, may also play a role in the metabolism of bile acids (PubMed:17080196). It is able to hydrolyze bile acid 3-O-glucosides but also to produce bile acid-glucose conjugates thanks to a bile acid glucosyl transferase activity (PubMed:17080196). However, the relevance of both activities is unclear in vivo (PubMed:17080196).[UniProtKB/Swiss-Prot Function]