

Product datasheet for **RG213274**

Glucosidase 2 subunit beta (PRKCSH) (NM_002743) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glucosidase 2 subunit beta (PRKCSH) (NM_002743) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glucosidase 2 subunit beta
Synonyms:	AGE-R2; G19P1; GIIB; PCLD; PCLD1; PKCSH; PLD1; VASAP-60
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213274 representing NM_002743
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTTGCCGCTGCTGCTGCTACCCATGTGCTGGCCCGTGAGGTCAGAGGCCCGGGGCGTCT
 CCCTACCAATCATCACTTCTACGATGAGTCCAAGCCTTTACCTGCCTGGACGGTTCGGCCACCATCCC
 ATTTGATCAGGTCAACGATGACTATTGCGACTGCAAAGATGGCTCTGACGAGCCAGGCACGGCTGCCTGT
 CCTAATGGCAGCTTCCACTGCACCAACTGGCTATAAGCCCCTGTATATCCCCTCCAACCGGGTCAACG
 ATGGTGTGTTGACTGCTGCGATGGAACAGACGAGTACAACAGCGGCGTCATCTGTGAGAACACCTGCAA
 AGAGAAGGGCCGTAAGGAGAGAGAGTCCCTGCAGCAGATGGCCGAGGTCACCCGGAAGGGTTCGCTCTG
 AAGAAGATCCTTATTGAGGACTGGAAGAAGGCACGGGAGGAGAAGCAGAAAAAGCTCATTGAGCTACAGG
 CTGGGAAGAAGTCTCTGGAAGACCAGGTGGAGATGCTGCGGACAGTGAAGGAGGAAGCTGAGAAGCCAGA
 GAGAGAGGCCAAAGAGCAGCACCAGAAGCTGTGGGAAGAGCAGCTGGCTGCTGCCAAGGCCAACAGGAG
 CAGGAGCTGGCGGCTGATGCCTTCAAGGAGCTGGATGATGACATGGACGGGACGGTCTCGGTGACTGAGC
 TGCAGACTCACCCGAGCTGGACACAGATGGGGATGGGGCGTTGTGAGAAGCGGAAGCTCAGGCCCTCCT
 CAGTGGGGACACAGACAGACGACGCCACCTTTTCTACGACCGCTCTGGGCCGCCATCAGGGACAAGTAC
 CGGTCCGAGGCACTGCCACCGACTTCCAGCACCTTCTGCCCTGACTTGACGGAGCCCAAGGAGGAGC
 AGCCGCCAGTGCCTCGTCGCCACAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGAAGAGGCTGA
 AGAAGAGGAGGAGGAGGAGGATTCCGAGGAGGCCACCACCCTGTCAACCCCGCAGCCGGCCAGCCCT
 GCTGAGGAAGACAAAATGCCGCCCTACGACGAGCAGACGACGAGGCTTTCATCGATGCTGCCAGGAGGCC
 GCAACAAGTTTCGAGGAGGCCGCGGTCGCTGAAGGACATGGAGGAGTCCATCAGAACTGGAGCAAGA
 GATTTCTTTTACTTTGGCCCCAACGGGGAGTTTGCTTACCTGTACAGCCAGTGCCTACGAGCTCACCAAC
 AACGAATACGCTACCGCTCTGCCCTTCAAGCTTGTCTGCGAGAAACCCAACTCGGGGGCTCTCCCA
 CCAGCCTTGGCACCTGGGGCTCATGGATTGGCCCCGACCACGACAAGTTCAAGTGCATGAAGTATGAGCA
 AGGCACGGGCTGCTGGCAGGGCCCCAACCGCTCCACCACCGTGCCTCTGTGCGGAAAGAGACCATG
 GTGACCAGCACCACAGAGCCAGTCGCTGCGAGTACCTCATGGAGCTGATGACGCCAGCCGCTGCCCGG
 AGCCACCGCTGAAGCACCCACCGAAGACGACCATGACGAGCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG213274 representing NM_002743
 Red=Cloning site Green=Tags(s)

MLLPLLLLLPMCWAVEVKRPRGVSLSLNHHFYDESKPFTCLDGSATIPFDQVNDYCDCKDGSDEPGTAAC
 PNGSFHCTNTGYKPLYIPSNRVNDGVDCDDGTDEYNSGVICENTCCKEGRKERESLQQMAEVTREGFRL
 KKILIEDWKKAREEKQKKLIELQAGKSLLEDQVEMLRTVKEEAKEPEREAKEQHQLWEEQLAAAKAQQE
 QELAADAFKELDDMDGTVSVTELQTHPELDTGDGALSEAEAQALLSGDTQTDATSFYDRVWAAIRDKY
 RSEALPTDLPAPSAPDLTEPKKEQPPVPSPTEEEEEEEEEEEEEEEEEEEEEDSEEAPPPLSPPQPASP
 AEEDKMPPYDEQTQAFIDAAQEARNKFEEAERSLKDMEESIRNLEQEIFDFGPNGEFAYLYSQCYELTT
 NEYVYRLCPFKLVSQPKLGGSPSLGTWGSWIGPDHDKFSAMKYEQGTGCWQGNRSTTVRLLCGKETM
 VTSTTEPSRCEYLMELMTPAACPEPPPEAPTEDDHDEL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_002743

ORF Size: 1584 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

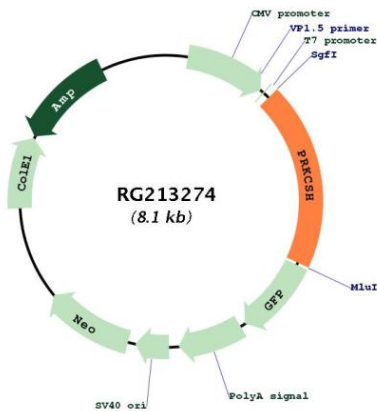
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_002743.3](#)

RefSeq Size: 2262 bp
 RefSeq ORF: 1587 bp
 Locus ID: 5589
 UniProt ID: [P14314](#)
 Cytogenetics: 19p13.2
 Protein Families: Druggable Genome
 Gene Summary:

This gene encodes the beta-subunit of glucosidase II, an N-linked glycan-processing enzyme in the endoplasmic reticulum. The encoded protein is an acidic phosphoprotein known to be a substrate for protein kinase C. Mutations in this gene have been associated with the autosomal dominant polycystic liver disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

Product images:



Circular map for RG213274