

Product datasheet for **RC213274**

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:	Myc-DDK
Symbol:	Glucosidase 2 subunit beta
Synonyms:	AGE-R2; G19P1; GIIB; PCLD; PCLD1; PKCSH; PLD1; VASAP-60
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC213274 representing NM_002743
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGTTGCCGCTGCTGCTGCTACCCATGTGCTGGCCCGTGAGGTCAAGAGGCCCGGGGCGTCT
 CCCTACCAATCATCACTTCTACGATGAGTCCAAGCCTTTCACCTGCCTGGACGGTTCGGCCACCATCCC
 ATTTGATCAGGTCAACGATGACTATTGCGACTGCAAAGATGGCTCTGACGAGCCAGGCACGGCTGCCTGT
 CCTAATGGCAGCTTCCACTGCACCAACTGGCTATAAGCCCTGTATATCCCCTCCAACCGGGTCAACG
 ATGGTGTGTTGACTGCTGCGATGGAACAGACGAGTACAACAGCGGCGTCATCTGTGAGAACACCTGCAA
 AGAGAAGGGCCGTAAGGAGAGAGAGTCCCTGCAGCAGATGGCCGAGGTACCCCGGAAGGGTTCGCTCTG
 AAGAAGATCCTTATTGAGGACTGGAAGAAGGCACGGGAGGAGAAGCAGAAAAAGCTCATTGAGCTACAGG
 CTGGGAAGAAGTCTCTGGAAGACCAGGTGGAGATGCTGCGGACAGTGAAGGAGGAAGCTGAGAAGCCAGA
 GAGAGAGGCCAAAGAGCAGCACCAGAAGCTGTGGGAAGAGCAGCTGGCTGCTGCCAAGGCCAACAGGAG
 CAGGAGCTGGCGGCTGATGCCTTCAAGGAGCTGGATGATGACATGGACGGGACGGTCTCGGTGACTGAGC
 TGCAGACTCACCCGAGCTGGACACAGATGGGGATGGGGCGTTGTGAGAAGCGGAAGCTCAGGCCCTCT
 CAGTGGGGACACAGACAGACGACCCACCTTTTCTACGACCGCTCTGGGCCGCCATCAGGGACAAGTAC
 CGGTCCGAGGCACTGCCACCGACTTCCAGCACCTTCTGCCCTGACTTGACGGAGCCCAAGGAGGAGC
 AGCCGCCAGTGCCTCGTCGCCCCACAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGAAGAGGCTGA
 AGAAGAGGAGGAGGAGGAGGATTCCGAGGAGGCCACCAGCCACTGTACCCCGCAGCCGGCCAGCCCT
 GCTGAGGAAGACAAAATGCCGCCCTACGACGAGCAGACGACGAGCCCTTTCATCGATGCTGCCAGGAGGCC
 GCAACAAGTTCGAGGAGGCCGAGCGGTCGCTGAAGGACATGGAGGAGTCCATCAGGAACCTGGAGCAAGA
 GATTTCTTTTACTTTGGCCCCAACGGGAGTTTGCTTACCTGTACAGCCAGTGTACGAGCTACACCACC
 AACGAATACGCTCTACCGCTCTGCCCTTCAAGCTTGTCTCGCAGAAACCCAAACTCGGGGGCTCTCCCA
 CCAGCCTTGGCACCTGGGGCTCATGGATTGGCCCCGACCACGACAAGTTCAGTGCCATGAAGTATGAGCA
 AGGCACGGGCTGCTGGCAGGGCCCCAACCGCTCCACCACCGTGCCTCTGTGCGGAAAGAGACCATG
 GTGACCAGCACCACAGAGCCAGTCGCTGCGAGTACCTCATGGAGCTGATGACGCCAGCCGCTGCCCGG
 AGCCACCGCTGAAGCACCACCGAAGACGACCATGACGAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213274 representing NM_002743
 Red=Cloning site Green=Tags(s)

MLLPLLLLLPMCWAVEVKRPRGVSILTNNHFFYDESKPFTCLDGSATIPFDQVNDYDCCKDGSDEPGTAAC
 PNGSFHCTNTGYKPLYIPSNRVNDGVDCDGTDEYNSGVICENTCCKEGRKERESLQQMAEVTREGFRL
 KKILIEDWKKAREEKQKKLIELQAGKKSLEDQVEMLRVKEEAKEPEREAKEQHQLWEEQLAAAKAQQE
 QELAADAFKELDDMDGTVSVTELQTHPELDTGDGALSEAEQALLSGDTQTDATSFYDRVWAAIRDKY
 RSEALPTDLPAPSAPDLTEPKEEQPPVSSPTEEEEEEEEEEEEEEEEEEEEEDSEEAPPLSPPQPASP
 AEEDKMPPYDEQTQAFIDAAQEARNKFEEAERSLKDMEESIRNLEQEIFDFGPNGEFAYLYSQCYELTT
 NEYVYRLCPFKLVSQKPKLGGSPSTLGTWGSWIGPDHDKFSAMKYEQGTGCWQGPNRSTTVRLLCGKETM
 VTSTTEPSRCEYLMELMTPAACPEPPPEAPTEDDHDEL

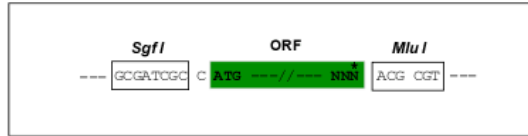
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

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](#)

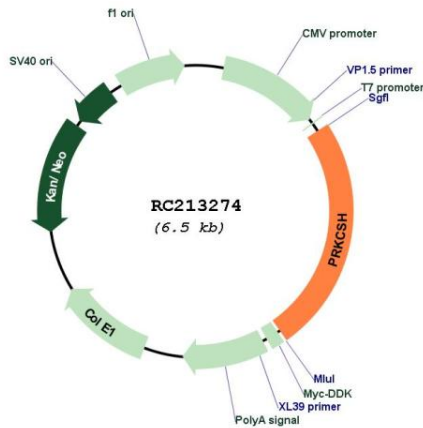
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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
MW:	59.2 kDa
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 RC213274