

Product datasheet for **RC238773**

Glucosidase 2 subunit beta (PRKCSH) (NM_001289104) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glucosidase 2 subunit beta (PRKCSH) (NM_001289104) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRKCSH
Synonyms:	AGE-R2; G19P1; GIIB; PCLD; PCLD1; PKCSH; PLD1; VASAP-60
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238773 representing NM_001289104
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGTTGCCGCTGCTGCTGCTACCCATGTGCTGGCCGCTGGAGGTCAAGAGGCCCGGGCGTCT
 CCCTACCAATCATCACTTCTACGATGAGTCCAAGCCTTTCACCTGCCTGGACGGTTCGGCCACCATCCC
 ATTTGATCAGGTCAACGATGACTATTGCGACTGCAAAGATGGCTCTGACGAGCCAGGCACGGCTGCCTGT
 CCTAATGGCAGCTTCCACTGCACCAACTGGCTATAAGCCCTGTATATCCCCTCCAACCGGTCAACG
 ATGGTGTGTTGACTGCTGCGATGGAACAGACGAGTACAACAGCGGCGTCATCTGTGAGAACACCTGCAA
 AGAGAAGGGCCGTAAGGAGAGAGAGTCCCTGCAGCAGATGGCCGAGGTACCCCGGAAGGGTTCGCTCTG
 AAGAAGATCCTTATTGAGGACTGGAAGAAGGCACGGGAGGAGAAGCAGAAAAAGCTCATTGAGCTACAGG
 CTGGGAAGAAGTCTCTGGAAGACCAGGTGGAGATGCTGCGGACAGTGAAGGAGGAAGCTGAGAAGCCAGA
 GAGAGAGGCCAAAGAGCAGCACCAGAAGCTGTGGGAAGAGCAGCTGGCTGCTGCCAAGGCCAACAGGAG
 CAGGAGCTGGCGGCTGATGCCTTCAAGGAGCTGGATGATGACATGGACGGGACGGTCTCGGTGACTGAGC
 TGCAGACTCACCCGAGCTGGACACAGATGGGGATGGGGCGTTGTGAGAAGCGGAAGCTCAGGCCCTCT
 CAGTGGGGACACACAGACAGACGCCACCTTTTCTACGACCGCTCTGGGCCGCCATCAGGGACAAGTAC
 CGGTCCGAGGCACTGCCACCGACCTTCCAGCACCTTCTGCCCTGACTTGACGGAGCCCAAGGAGGAGC
 AGCCGCCAGTGCCTCGTCGCCCCACAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAAGAAGAGGCTGA
 AGAAGAGGAGGAGGAGGAGGATTCCGAGGTGCAGGGGAGCAGCCCAAGGAGGCCCAACCGCCACTGTCA
 CCCCCGACGCCGCGCCAGCCCTGCTGAGGAAGACAAAATGCCGCCCTACGACGAGCAGACGAGCCCTCA
 TCGATGCTGCCAGGAGGCCCGCAACAAGTTCGAGGAGGCCGAGCGGTGCTGAAGGACATGGAGGAGTCA
 CATCAGGAACCTGGAGCAAGAGATTTCTTTTACTTTGGCCCAACGGGGAGTTTGCTTACCTGTACAGC
 CAGTGCTACGAGCTACCCACCAACGAATACGTCTACCGCCTCTGCCCTTCAAGCTTGTCTCGCAGAAAC
 CCAAACCTCGGGGCTCTCCACCAGCCTTGGCACCTGGGGCTCATGGATTGGCCCCGACCACGACAAGTT
 CAGTGCCATGAAGTATGAGCAAGGCACGGGCTGCTGGCAGGGCCCAACCGCTCCACCACCGTGCCTC
 CTGTGCGGAAAGAGACCATGGTGACCAGCACACAGAGCCAGTCGCTGCGAGTACCTCATGGAGCTGA
 TGACGCCAGCCGCTGCCCGAGCCACCCTGAAGCACCCAGAACGACGACCATGACGAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238773 representing NM_001289104
 Red=Cloning site Green=Tags(s)

MLLPLLLLLPMCWAVEVKRPRGVSLETNHHFYDESKPFTCLDGSATIPFDQVNDYCDCKDGSDEPGTAAC
 PNGSFHCNTNTGYKPLYIPSNRVNDGVCDCCDGTDEYNSGVICENTCKEKGRKERESLQQMAEVTREGFRL
 KKILIEDWKKAREEKQKKLIELQAGKKSLEDQVEMLRTVKEEAKEPEREAKQHQKLWEEQLAAAKAQQE
 QELAADAFKELDDMDGTVSVTELTQHPLELDTDGDGALSEAEQALLSGDTQTDATSFYDRVWAAIRDKY
 RSEALPTDLPAAPSAPDLTEPKKEQPPVPSPTEEEEEEEEEEEEEEEEEEEEEDSEVQGEQPKAPPPLS
 PPQPASPAEEDKMPPYDEQTQAFIDAAQEARNKFEEAERSLKDMEESIRNLEQEIISDFGPNGEFAYLYS
 QCYELTTNEYVYRLCPFKLVSQKPKLGGSPSLGTWGSWIGPDHDKFSAMKYEQGTGCWQGNRSTTVRL
 LCGKETMVTSTTEPSRCEYLMELMTPAACPEPPPEAPTEDDHDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

ACCN:	NM_001289104
ORF Size:	1605 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_001289104.2
RefSeq Size:	2488 bp
RefSeq ORF:	1608 bp
Locus ID:	5589
Cytogenetics:	19p13.2
Protein Families:	Druggable Genome
MW:	60.6 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]