

Product datasheet for **RG238772**

Glucosidase 2 subunit beta (PRKCSH) (NM_001289103) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glucosidase 2 subunit beta (PRKCSH) (NM_001289103) 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:

>RG238772 representing NM_001289103.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGTTGCCGCTGCTGCTGCTACCCATGTGCTGGGCCGTGGAGGTCAAGAGGCCCGGGCGCTC
TCCCTACCAATCATCACTTCTACGATGAGTCCAAGCCTTTCACCTGCCTGGACGGTTCCGCCACCATC
CCATTTGATCAGGTCAACGATGACTATTGCGACTGCAAAGATGGCTCTGACGAGCCAGGCACGGCTGCC
TGTCTAATGGCAGCTTCCACTGCACCAACTGGCTATAAGCCCTGTATATCCCTCCAACCGGGTC
AACGATGGTGTGTTGTGACTGCTGCGATGGAACAGACGAGTACAACAGCGCGTCATCTGTGAGAACACC
TGCAAAGAGAAGGGCCGTAAAGGAGAGAGTCCCTGCAGCAGATGGCCGAGGTACCCCGGAAGGGTTC
CGTCTGAAGAAGATCCTTATTGAGGACTGGAAGAAGGCACGGGAGGAGAAGCAGAAAAAGCTCATTGAG
CTACAGGCTGGGAAGAAGTCTCTGGAAGACCAGGTGGAGATGCTGCGACAGTGAAGGAGGAAGCTGAG
AAGCCAGAGAGAGAGGCCAAAGAGCAGCACCAGAAGCTGTGGGAAGAGCAGCTGGCTGCTGCCAAGGCC
CAACAGGAGCAGGAGCTGGCGGTGATGCCTTCAAGGAGCTGGATGATGACATGGACGGGACGGTCTCG
GTGACTGAGCTGCAGACTCACCCGGAGCTGGACACAGATGGGGATGGGGGTTGTGAGAAGCGGAAGCT
CAGGCCCTCCTCAGTGGGGACACACAGACAGACGCCACCTCTTTCTACGACCGCTCTGGGCCGCCATC
AGGGACAAGTACCGGTCCGAGGCACTGCCACCGACCTTCCAGCACCTTCTGCCCTGACTTGACGGAG
CCCAAGGAGGAGCAGCCGCCAGTGCCTCGTCCGCCACAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
GAAGAAGAGGCTGAAGAAGAGGAGGAGGAGGAGGATTCCGAGGTGCAGGGGGAGCAGCCCAAGGAGGCC
CCACCGCCACTGTACCCCGCAGCCGGCCAGCCCTGCTGAGGAAGACAAAATGCCGCCCTACGACGAG
CAGACGCAGGCCCTTCATCGATGCTGCCAGGAGCCCGCAACAAGTTTCGAGGAGGCCGAGCGGTGCTG
AAGGACATGGAGGAGTCCATCAGGAACCTGGACCAAGATTTCTTTTACTTTGGCCCCAACGGGGAG
TTTGCTTACCTGTACAGCCAGTGTACGAGCTCACCAACGAATACGTCTACCGCCTCTGCCCTTC
AAGCTTGTCTCGCAGAAACCCAACTCGGGGCTCTCCACAGCCTTGGCACCTGGGGCTCATGGATT
GGCCCCGACCACGACAAGTTCAGTGCCATGAAGTATGAGCAAGGCACGGGCTGCTGGCAGGGCCCCAAC
CGCTCCACCACCGTGGCCTCCTGTGCGGGAAAGAGACCATGGTGACCAGCACCAGAGCCAGTCCG
TGCGAGTACCTCATGGAGCTGATGACGCCAGCCGCTGCCCGGAGCCACCGCCTGAAGCACCACCGAA
GACGACCATGACGAGCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238772
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MLLPLLLLLPMCWAVEVKRPRGVSLSLNHHFYDESKPFTCLDGSATIPFDQVNDYDCCKDGSDEPGTAA
CPNGSFHCTNTGYKPLYIPSNRVNDGVDCDDGTDEYNSGVICENTCKEKGRKEREQLQMAEVTREGF
RLKKILIEDWKKAREEKQKKLIELQAGKKSLEDQVEMLRVTKKEAEKPEREAKQHQKLWEEQLAAAKA
QQEQELAADAFKELDDMDGTVSVTELQTHPELDTDGDGALSEAEQALLSGDTQTDATSFYDRVWAAI
RDKYRSEALPTDLPAPSAPDLTEPKEEQPPVPSPTEEEEEEEEEEEEEEEEEEEEEDSEVQGEQPKEA
PPPLSPPQPASPAEEDKMPPYDEQTQAFIDAAQEARNKFEEAERSLKDMEESIRNLEQEIISDFGPNGE
FAYLYSQCYELTTNEYVYRLCPFVLVSQPKLGGSPSLGTWGSWIGPDHDKFSAMKYEQGTGCWQGN
RSTTVRLLCGKETMVTSTTEPSRCEYLMELMTPAACPEPPPEAPTEDDHDEL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001289103

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).

RefSeq: [NM_001289103.1](#), [NP_001276032.1](#)

RefSeq Size: 2492 bp

RefSeq ORF: 1608 bp

Locus ID: 5589

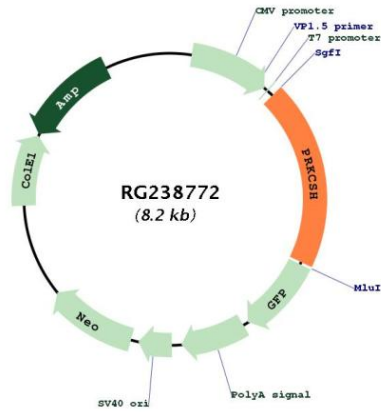
Cytogenetics: 19p13.2

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]

Product images:



Circular map for RG238772