

## Product datasheet for **SC118458**

### Glucosidase 2 subunit beta (PRKCSH) (NM\_002743) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glucosidase 2 subunit beta (PRKCSH) (NM_002743) Human Untagged Clone
Tag:	Tag Free
Symbol:	Glucosidase 2 subunit beta
Synonyms:	AGE-R2; G19P1; GIIB; PCLD; PCLD1; PKCSH; PLD1; VASAP-60
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC118458 sequence for NM\_002743 edited (data generated by NextGen Sequencing)

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ATGCTGTTGCCGCTGCTGCTGCTACCCATGTGCTGGGCCGTGGAGGTCAAGAGGCC
CGGGGCGTCTCCCTCACCAATCATCACTTCTACGATGAGTCCAAGCCTTTCACCTGCCTG
GACGGTTTCGGCCACCATCCCATTGATCAGGTCAACGATGACTATTGCGACTGCAAAGAT
GGCTCTGACGAGCCAGGCACGGCTGCCTGTCCTAATGGCAGCTTCCACTGCACCAACT
GGCTATAAGCCCCGTGTATATCCCCTCAAACCGGGTCAACGATGGTGTGTTGTGACTGCTGC
GATGGAACAGACGAGTACAACAGCGGCGTCATCTGTGAGAACACCTGCAAAGAGAAGGGC
CGTAAGGAGAGAGAGTCCCTGCAGCAGATGGCCGAGGTCAACCGGAAGGGTTCGCTCTG
AAGAAGATCCTTATTGAGGACTGGAAGAAGGCACGGGAGGAGAAGCAGAAAAAGCTCATT
GAGCTACAGGCTGGGAAGAAGTCTCTGGAAGACCAGGTGGAGATGCTGCGGACAGTGAAG
GAGGAAGCTGAGAAGCCAGAGAGAGAGGCCAAAGAGCAGCACCAGAAGCTGTGGGAAGAG
CAGCTGGCTGCTGCCAAGGCCAACAGGAGCAGGAGCTGGCGGCTGATGCCTTCAAGGAG
CTGGATGATGACATGGACGGGACGGTCTCGGTGACTGAGCTGCAGACTCACCCGGAGCTG
GACACAGATGGGGATGGGGCGTTGTCAGAAGCGGAAGCTCAGGCCCTCCTCAGTGGGGAC
ACACAGACAGACGCCACCTCTTTCTACGACCGCTCTGGGCCGCCATCAGGGACAAGTAC
CGGTCCGAGGCACTGCCACCGACCTTCCAGCACCTTCTGCCCTGACTTGACGGAGCCC
AAGGAGGAGCAGCCAGTGCCTCGTCCGACAGAGGAGGAGGAGGAGGAGGAGGAGGAG
GAGGAGGAAGAAGAGGCTGAAGAAGAGGAGGAGGAGGAGGATTCCGAGGAGGCCACCAG
CCACTGTACCCCGCAGCCGGCCAGCCCTGCTGAGGAAGACAAAATGCCGCCCTACGAC
GAGCAGACGCAGGCCCTCATCGATGCTGCCAGGAGGCCCGCAACAAGTTCGAGGAGGCC
GAGCGGTGCTGAAGGACATGGAGGAGTCCATCAGGAACCTGGAGCAAGAGATTTCTTTT
GACTTTGGCCCCAACGGGAGTTTGCTTACCTGTACAGCCAGTGTACGAGCTCACACC
AACGAATACGCTACCCGCTCTGCCCTCAAGCTTGTCTCGCAGAAACCCAAACTCGGG
GGCTCTCCACCAGCCTTGGCACCTGGGCTCATGGATTGGCCCCGACCACGACAAGTTC
AGTGCCATGAAGTATGAGCAAGGCACGGGCTGCTGGCAGGGCCCCAACCGCTCCACCACC
GTGCGCTCCTGTGCGGAAAGAGACCATGGTGACCAGCACCACAGAGCCCAGTCGCTGC
GAGTACCTCATGGAGCTGATGACGCCAGCCGCTGCCCGAGCCACCGCTGAAGCACC
ACCGAAGACGACCATGACGAGCTCTAG
    
```

Clone variation with respect to NM\_002743.2

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_002743 unedited
GTCAGAATTTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGGGTGGATACT
GACCTTTGCTCCGGCCTCGTCTGTAAGACACAGCGCATCTCCCGCTGTAGGCTTCTCC
CACAGAACCCGTTTCGGGCTCAGAGCGTCTGGTGAGATGCTGTTGCCGCTGCTGCTGCT
GCTACCCATGTGCTGGCCGTGGAGGTCAAGAGGCCCGGGCGTCTCCCTCACCAATCA
TCACTTCTACGATGAGTCCAAGCCTTTCACCTGCCTGGACGGTTCGGCCACCATCCATT
TGATCAGGTCAACGATGACTATTGCGACTGCAAAGATGGCTCTGACGAGCCAGGCACGGC
TGCTGTCTTAATGGCAGCTTCCACTGCACCAACTGGCTATAAGCCCTGTATATCCC
CTCCAACCGGGTCAACGATGGTGTGTTGACTGCTGCGATGGAACAGACGAGTACAACAG
CGGCGTCATCTGTGAGAACACCTGCAAAGAGAAGGGCCGTAAGGAGAGAGAGTCCCTGCA
GCAGATGGCCGAGGTACCCGCGAAGGGTTCCTGCTGAAGAAGATCCTTATTGAGGACTG
GAAGAAGGCACGGGAGGAGAAGCAGANAAAGCTCATTGAGCTACAGGCTGGGAAGAAGTC
TCTGGAAGACCAGGTGGAGATGCTGCGGACAGTGAAGGAGGAAGCTGAGAAGCCAGAGAG
AGAGGCCAAAGAGCAGCACCAGAAGCTGTGGGAAGAGCAGCTGGCTGCTGCCAAGCCCCA
CAGGAGCANGAGCTGGCGGCTGATGCCTTTCAGGAGCTGNATGATGACATGGACGGNACN
NGTCTCGTACTGAGCTGCAGACTCACCCGNAGCTGGAACAGATGGNGATGGGNNCGCTG
TCANAAGCGAAGCTCAGCCCTNCTCAGTGGGACACC
    
```

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_002743 unedited GGCACGCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTTTTTGGTGGGGGATCACATTTATTG TATTGAGGTCACAGGTCAAGTCATTCACTATCCCCACTAAGAGGGGTGGCAAGGACAGG GCTGGGGGTGGTGGGGCGAGTCACCAAGGTGGGGGGCCAGGGAGGGCAAGCTCCTTTAC CCATCTTTGAAGGCTGTTGGGGCCTGGGAATGTGGACCAGCCCCGCTGGGCCCCATAGC AGGGCACAATCCCCACAAGGTCCTGCCGCCACAGATGATGGCAACAGATCCACAGGCA GGCCCCATAGGGGGGGTGGACGGCACTGCAAGGGCTGGCTTCATGCCTTTGAAGTTCT CTGCGCCCATCCAGCTAGAGCTCGTCATGGTCGTCTTCGGTGGGTGCTTCAAGCGGTGGC TCCGGGCAAGCGGCTGGCGTCATCAGCTCCATGAAGTACTCGCAGCGACTGGGCTCTGTG GTGCTGGTCACCATGGTCTCTTTCCCGCACAGGATGCGCACGGTGGTGGATCGGTTGGG CCCTGCCAGCAGCCCGTGCCTTGCTCATACTTCATGGCACTGAACTTGTGCTGGTGGGG CCAATCCATGATCCCCAAGTGCCAAAGCTGGTGGGAGATGCCCGAGTTGGGTTTCTGCG ATCAATCTTGAAAGGGCAGAAGCCGTANAACATTCGTTGGGTGTGAGCTCGTANCACTG GCTGTACAAGTAAGCAAACTCCCGTTGGGCCAAAGCAAAAAAATCCTTGCTCCAAGCT CCTGATGGACTTTCATGTNCTTAATCGACCGCTCGGCCTCCTCAAACCTGGTGGGGCCC TCTTGGCAGAATATATAAAGCCTGCCCTGCTCCTTAGGGAGCATTTTTTTTTCTCACA AGGCTGGCCGTTGCGGGGTAAGTCCGGTGGGCCCTGGAATCCCTCCCCCCTTTTT AAACTCTTCTCTCT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002743
<b>Insert Size:</b>	2210 bp
<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_002743.2</a> , <a href="#">NP_002734.2</a>

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]

Transcript Variant: This variant (1) encodes isoform 1.