

## Product datasheet for **MC228142**

### Prkcsh (NM\_001293651) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prkcsh (NM_001293651) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Prkcsh
Synonyms:	80K-H; PKCSH
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228142 representing NM\_001293651  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCTGCTGCTGCTACTACTACTACCCTCTGTTGGGCTGTAGAAGTTAAGAGACCCCGGGCGTTT  
 CCCTCAGCAACCATCACTTCTATGAAGAATCTAAACCTTTCACCTGTTTGACGGCACAGCCACCATCCC  
 ATTCGATCAGGTGAACGACGACTACTGCGACTGTAAAGACGGTTCAGATGAGCCTGGCACAGCTGCTTGT  
 CCCAATGGCAGCTTTCAGTGCACCAACTGGGTACAAGCCCTGTACATCCTCTCCAGCCGGTCAATG  
 ATGGGGTATGTGACTGCTGTGATGGCACAGACGAGTACAACAGCGGCACGGTCTGCGAGAACACCTGCAG  
 AGAGAAGGTCGCAAGGAAAAAGAGTCCCTGCAGCAGTGGCGGAAGTACCCCGTGAAGGGTCCGCCTG  
 AAGAAGATTCTATTGAGGAGTGAAGACAGCCCGGAAGAAAAGCAGAGTAAGCTTCTTGAGCTTCAGG  
 CTGAAAGAAGTCTCTGGAAGACCAGGTAGAAACTGCGGGCAGCGAAAGAAGAAGCAGAGAGGCCAGA  
 GAAGGAGGCCAAGGACCAGCACCAGGAGCTGTGGGAAGAGCAGCAAGCTGCTGCCAAGGCCCGGGGAA  
 CAGGAGCGGGCAGCCAGTGCCTTCCAGGAATTGACGACAACATGGATGGGATGGTCTCGCTGGCTGAGT  
 TACAGACTCACCCGGAGCTGGACACAGATGGAGATGGAGCGCTGTCTGAGGAGGAGGCCAGGCCCTTCT  
 CAGTGGAGACACAGACTGACACCACCTCTTATGACCGTGTCTGGGCTGCCATCAGGGACAAGTAC  
 CGCTCTGAGGTCCCGCCACTGACATACCTGTTCCGGAGGAGACTGAGCCCAAAGAGGAAAAGCCACCAG  
 TGTTGCCACCCACAGAGGAGGAGGAAGAGGAGGAGGAGGCCAGAAGAAGAGGAGGAGGAAGAGGAAGA  
 GGAGGAGGAGGCTCCGCCCCACTGCAGCCCCACAGCCTCCAGCCCCACAGAGGATGAGAAGATGCCG  
 CCCTATGATGAGGAGACCAGGCCATCATCGATGCTGCACAGGAGGCCCGGAGTAAGTTTGAGGAAGTCG  
 AACGGTCTTGAAGAGATGGAAGATCCATCAGGAGTTTGAACAAGAGATCTCCTTTGATTTCCGGTCC  
 CTCTGGAGAGTTTGCATATCTCTACAGCCAATGCTACGAGCTCACCAATGAGTACGTCTACCGGCTT  
 TGCCCTTCAAAGTCTCCAGAAAACCAACATGGGGCTCCCGACCAGCCTGGGCACATGGGGCT  
 CCTGGGCTGGCCCTGATCATGACAAGTTCAGTGCATGAAGTACGAGCAGGGCACGGGCTGTTGGCAGGG  
 CCCCAACCGATCCACCACAGTGCCTGCTGTGTGGCAAAGAGACTGTGGTGACCAGCACCACGGAGCCC  
 AGTCGCTGTGAGTACCTCATGGAGCTGATGACACCAGCAGCCTGCCAGAGCCGCCACCAGAAGCACCCA  
 GTGATGGGGACCATGACGAGCT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001293651
- Insert Size:** 1566 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001293651.1](#), [NP\\_001280580.1](#)

**RefSeq Size:** 2069 bp

**RefSeq ORF:** 1566 bp

**Locus ID:** 19089

**UniProt ID:** [O08795](#)

**Cytogenetics:** 9 8.04 cM

**Gene Summary:** Regulatory subunit of glucosidase II that cleaves sequentially the 2 innermost alpha-1,3-linked glucose residues from the Glc(2)Man(9)GlcNAc(2) oligosaccharide precursor of immature glycoproteins (PubMed:27462106, PubMed:9148925). Required for efficient PKD1/Polycystin-1 biogenesis and trafficking to the plasma membrane of the primary cilia (PubMed:21685914). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) differs in the 5' UTR and uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. The encoded protein (isoform 2) is shorter, compared to isoform 1. Variants 2 and 3 encode the same protein (isoform 2).