

Product datasheet for **MG220039**

Prkcsh (NM_008925) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prkcsh (NM_008925) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prkcsh
Synonyms:	80K-H; PKCSH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG220039 representing NM_008925
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCTGCTGCTGCTACTACTACTACCCTCTGTTGGCTGTAGAAGTTAAGAGACCCCGGGCGTTT
 CCCTCAGCAACCATCACTTCTATGAAGAATCTAAACCTTTACCTGTTTGACGGCACAGCCACCATCCC
 ATTCGATCAGGTGAACGACGACTACTGCGACTGTAAAGACGGTTCAGATGAGCCTGGCACAGCTGCTTGT
 CCCAATGGCAGCTTCACTGCACCAACTGGGTACAAGCCCTGTACATCCTCTCCAGCCGGTCAATG
 ATGGGGTATGTGACTGCTGTGATGGCACAGACGAGTACAACAGCGGCACGGTCTGCGAGAACACCTGCAG
 AGAGAAGGTCGCAAGGAAAAAGAGTCCCTGCAGCAGCTGGCGGAAGTACCCCGTGAAGGTTCCGCCTG
 AAGAAGATTCTATTGAGGAGTGAAGACAGCCCGGAAGAAAAGCAGAGTAAGCTTCTTGAGCTTCAGG
 CTGAAAGAGTCTCTGGAAGACCAGGTAGAAACTGCGGGCAGCGAAAGAAGAAGCAGAGAGGCCAGA
 GAAGGAGGCCAAGGACCAGCACCAGGAGCTGTGGGAAGAGCAGCAAGCTGCTGCCAAGGCCCGGGGAA
 CAGGAGCGGGCAGCCAGTGCCTTCCAGGAACCTGACGACAACATGGATGGATGGTCTCGCTGGCTGAGT
 TACAGACTCACCCGGAGCTGGACACAGATGGAGATGGAGCGCTGTCTGAGGAGGAGGCCAGGCCCTTCT
 CAGTGGAGACACAGACTGACACCACCTCTTATGACCGTGTCTGGCTGCCATCAGGGACAAGTAC
 CGCTCTGAGGTCCCGCCACTGACATACCTGTTCCGGAGGAGACTGAGCCCAAAGAGGAAAAGCCACCAG
 TGTTGCCACCCACAGAGGAGGAGGAAGAGGAGGAGGAGGCCAGAAGAAGAGGAGGAGGAAGAGGAAGA
 GGAGGAGGAGGCTCCGCCCCACTGCAGCCCCACAGCCTCCAGCCCCACAGAGGATGAGAAGTGGCC
 CCCTATGATGAGGAGACCAGGCCATCATCGATGCTGCACAGGAGGCCCGGAGTAAGTTTGAGGAAGTCC
 AACGGTCTTGAAGAGATGGAAGAGTCCATCAGGAGTTTGAACAAGAGATCTCCTTTGATTTCCGGTCC
 CTCTGGAGAGTTTGCATATCTCTACAGCCAATGCTACGAGCTCACCAACATGAGTACGTCTACCGGCTT
 TGCCCTTCAAAGTCTCCAGAAAACCAACATGGGGCTCCCGACCAGCCTGGGCACATGGGGCT
 CCTGGGCTGGCCCTGATCATGACAAGTTCAGTGCATGAAGTACGAGCAGGGCACGGGCTGTTGGCAGGG
 CCCCAACCGATCCACCACAGTGCCTGCTGTGTGGCAAAGAGACTGTGGTGACCAGCACCACGGAGCCC
 AGTCGCTGTGAGTACCTCATGGAGCTGATGACACCAGCAGCCTGCCAGAGCCGCCACCAGAAGCACCCA
 GTGATGGGGACCATGACGAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG220039 representing NM_008925
 Red=Cloning site Green=Tags(s)

MLLLLLLLLLPLCWAVEVKRPRGVSLSNHHFYEESKPF TCDLGTATIPFDQVNDYDCCKDGSDEPGTAAC
 PNGSFHCTNTGYKPLYILSSRVNDGVDCDDGTDEYNSGTVCENTCREKGRKEKESLQQLAEVTREGFRL
 KKILIEEWKTAREEKQSKLLELQAGKKSLEDQVETLRAAKEEAERPEKEAKDQHRKLVWEEQQAARRE
 QERAASAFQELDDNMDGMVSLAELQTHPELDTDGDGALSEEEAQLLSGDTQDTSFYDRVWAAIRDKY
 RSEVPPTDIPVPEETEPKEEKPPVLPPTEEEEEEEEPEEEEEEEEEAPPPLQPPPPSPTDEKMP
 PYDEETQAIIDAAQEARKFEEVERSLKEMEESIRSLEQEIFDFGSPGEFAYLYSQCYELTTNEYVYRL
 CPFKLVSQPKHGGSPSTSLGTWGSWAGPDHDKFSAMKYEQGTGCWQGNRSTTVRLLCGKETVVTSTTEP
 SRCEYLMELMTPAACPEPPPEAPSDGDHDEL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_008925

ORF Size: 1563 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:

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_008925.2](#)

RefSeq Size: 2030 bp

RefSeq ORF: 1566 bp

Locus ID: 19089

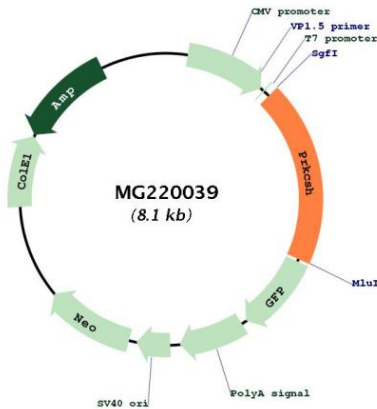
UniProt ID: [O08795](#)

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]

Product images:



Circular map for MG220039