

Product datasheet for **MR220039**

Prkcsh (NM_008925) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prkcsh (NM_008925) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prkcsh
Synonyms:	80K-H; PKCSH
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR220039 representing NM_008925
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCTGCTGCTGCTACTACTACTACCCTCTGTTGGCTGTAGAAGTTAAGAGACCCCGGGCGTTT
 CCCTCAGCAACCATCACTTCTATGAAGAATCTAAACCTTTCACCTGTTTGACGGCACAGCCACCATCCC
 ATTCGATCAGGTGAACGACGACTACTGCGACTGTAAAGACGGTTCAGATGAGCCTGGCACAGCTGCTTGT
 CCCAATGGCAGCTTCACTGCACCAACTGGGTACAAGCCCTGTACATCCTCTCCAGCCGGTCAATG
 ATGGGGTATGTGACTGCTGTGATGGCACAGACGAGTACAACAGCGGCACGGTCTGCGAGAACACCTGCAG
 AGAGAAGGTCGCAAGGAAAAAGAGTCCCTGCAGCAGCTGGCGGAAGTACCCCGTGAAGGGTCCGCCTG
 AAGAAGATTCTCATTGAGGAGTGAAGACAGCCCGGAAGAAAAGCAGAGTAAGCTTCTTGAGCTTCAGG
 CTGGAAGAAGTCTCTGGAAGACCAGGTAGAAACTGCGGGCAGCGAAAGAAGAAGCAGAGAGGCCAGA
 GAAGGAGGCCAAGGACCAGCACCAGGAGCTGTGGGAAGAGCAGCAAGCTGCTGCCAAGGCCCGGGGAA
 CAGGAGCGGGCAGCCAGTGCCTTCCAGGAATTGACGACAACATGGATGGGATGGTCTCGCTGGCTGAGT
 TACAGACTCACCCGGAGCTGGACACAGATGGAGATGGAGCGCTGTCTGAGGAGGAGGCCAGGCCCTTCT
 CAGTGGAGACACAGACTGACACCACCTCTTCTATGACCGTGTCTGGCTGCCATCAGGGACAAGTAC
 CGCTCTGAGGTCCCGCCACTGACATACCTGTTCCGGAGGAGACTGAGCCCAAAGAGGAAAAGCCACCAG
 TGTTGCCACCCACAGAGGAGGAGGAAGAGGAGGAGGAGGCCAGAAGAAGAGGAGGAGGAAGAGGAAGA
 GGAGGAGGAGGCTCCGCCCCACTGCAGCCCCACAGCCTCCAGCCCCACAGAGGATGAGAAGATGCCG
 CCCTATGATGAGGAGACCAGGCCATCATCGATGCTGCACAGGAGGCCCGGAGTAAGTTTGAGGAAGTCC
 AACGGTCTTGAAGAGATGGAAGATCCATCAGGAGTTTGAACAAGAGATCTCCTTTGATTTCCGGTCC
 CTCTGGAGAGTTTGCATATCTCTACAGCCAATGCTACGAGCTCACCAACATGAGTACGTCTACCGGCTT
 TGCCCTTCAAAGTCTCCAGAAACCAAACATGGGGCTCCCGACCAGCCTGGGCACATGGGGCT
 CCTGGGCTGGCCCTGATCATGACAAGTTCAGTGCATGAAGTACGAGCAGGGCACGGGCTGTTGGCAGGG
 CCCCAACCGATCCACCACAGTGCCTGCTGTGTGGCAAAGAGACTGTGGTGACCAGCACCACGGAGCCC
 AGTCGCTGTGAGTACCTCATGGAGCTGATGACACCAGCAGCCTGCCAGAGCCGCCACCAGAAGCACCCA
 GTGATGGGGACCATGACGAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220039 representing NM_008925
 Red=Cloning site Green=Tags(s)

MLLLLLLLLLPLCWAVEVKRPRGVSLSNHHFYEESKPFCLDGTATIPFDQVNDYCDCKDGSDEPGTAAC
 PNGSFHCNTNTGYKPLYILSSRVNDGVCDCCDGTDEYNSGTVCENTCREKGRKEKESLQQLAEVTREGFRL
 KKILIEEWKTAREEKQSKLLELQAGKKSLEDQVETLRAAKEEAERPEKEAKDQHRKLWEEQAAAARRE
 QERAASAFQELDDNMDGMVSLAELQTHPELDTDGDGALSEEAQALLSGDTQDTSFYDRVWAAIRDKY
 RSEVPPTDIPVPEETEPKEEKPPVLPPTEEEEEEEEEEEEEEEEEEEEAPPPLPPPPSPTDEKMP
 PYDEETQAIIDAAQEARSKFEEVERSLKEMEESIRSLEQEIFDFGSPGEFAYLYSQCYELTTNEYVYRL
 CPFKLVSQKPKHGGSPSLGTWGSWAGPDHDKFSAMKYEQGTGCWQGNRSTTVRLLCGKETVVTSTTEP
 SRCEYLMELMTPAACPEPPPEAPSDGDHDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

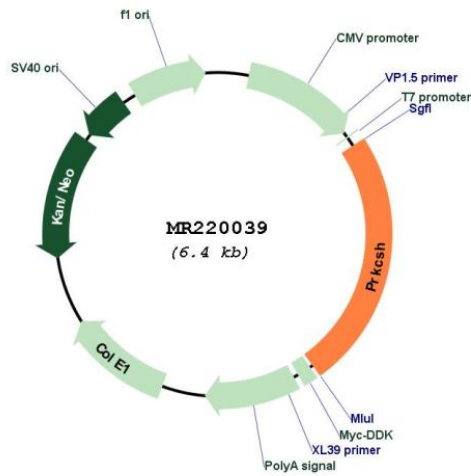
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_008925.2
RefSeq Size:	2030 bp
RefSeq ORF:	1566 bp
Locus ID:	19089
UniProt ID:	O08795
Cytogenetics:	9 8.04 cM
MW:	59.2 kDa
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]