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Product datasheet for MR230353

Prkcsh (NM_001293651) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prkcsh (NM_001293651) 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

View online »

ORF Nucleotide Sequence:

>MR230353 representing NM_001293651
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGCTGCTGCTGCTACTACTACTACCCCTCTGTTGGGCTGTAGAAGTTAAGAGACCCCGGGGCGTTT
CCCTCAGCAACCATCACTTCTATGAAGAATCTAAACCTTTCACCTGTTTGGACGGCACAGCCACCATCCC
ATTCGATCAGGTGAACGACGACTACTGCGACTGTAAGGACGGTTCAGATGAGCCTGGCACAGCTGCTTGT
CCCAATGGCAGCTTTCACTGCACCAACACTGGGTACAAGCCCTTGTACATCCTCTCCAGCCGGGTCAATG
ATGGGGTATGTGACTGCTGTGATGGCACAGACGAGTACAACAGCGGCACGGTCTGCGAGAACACCTGCAG
AGAGAAGGGTCGCAAGGAAAAAGAGTCCCTGCAGCAGCTGGCGGAAGTCACCCGTGAAGGGTTCCGCCTG
AAGAAGATTCTCATTGAGGAGTGGAAGACAGCCCGGGAAGAAAAGCAGAGTAAGCTTCTTGAGCTTCAGG
CTGGAAAGAAGTCTCTGGAAGACCAGGTAGAAACACTGCGGGCAGCGAAAGAAGAAGCAGAGAGGCCAGA
GAAGGAGGCCAAGGACCAGCACCGGAAGCTGTGGGAAGAGCAGCAAGCTGCTGCCAAGGCCCGGCGGGAA
CAGGAGCGGGCAGCCAGTGCCTTCCAGGAACTTGACGACAACATGGATGGGATGGTCTCGCTGGCTGAGT
TACAGACTCACCCGGAGCTGGACACAGATGGAGATGGAGCGCTGTCTGAGGAGGAGGCCCAGGCCCTTCT
CAGTGGAGACACACAGACTGACACCACCTCCTTCTATGACCGTGTCTGGGCTGCCATCAGGGACAAGTAC
CGCTCTGAGGTCCCGCCCACTGACATACCTGTTCCGGAGGAGACTGAGCCCAAAGAGGAAAAGCCACCAG
TGTTGCCACCCACAGAGGAGGAGGAAGAGGAGGAGGAGGAGCCAGAAGAAGAGGAGGAGGAAGAGGAAGA
GGAGGAGGAGGCTCCGCCCCCACTGCAGCCCCCACAGCCTCCCAGCCCCACAGAGGATGAGAAGATGCCG
CCCTATGATGAGGAGACCCAGGCCATCATCGATGCTGCACAGGAGGCCCGGAGTAAGTTTGAGGAAGTCG
AACGGTCCTTGAAAGAGATGGAAGAGTCCATCAGGAGTTTGGAACAAGAGATCTCCTTTGATTTCGGTCC
CTCTGGAGAGTTTGCATATCTCTACAGCCAATGCTACGAGCTCACCACCAATGAGTACGTCTACCGGCTT
TGCCCCTTCAAACTGGTCTCCCAGAAACCCAAACATGGGGGCTCCCCGACCAGCCTGGGCACATGGGGCT
CCTGGGCTGGCCCTGATCATGACAAGTTCAGTGCGATGAAGTACGAGCAGGGCACGGGCTGTTGGCAGGG
CCCCAACCGATCCACCACAGTGCGCCTGCTGTGTGGCAAAGAGACTGTGGTGACCAGCACCACGGAGCCC
AGTCGCTGTGAGTACCTCATGGAGCTGATGACACCAGCAGCCTGCCCAGAGCCGCCACCAGAAGCACCCA
GTGATGGGGACCATGACGAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

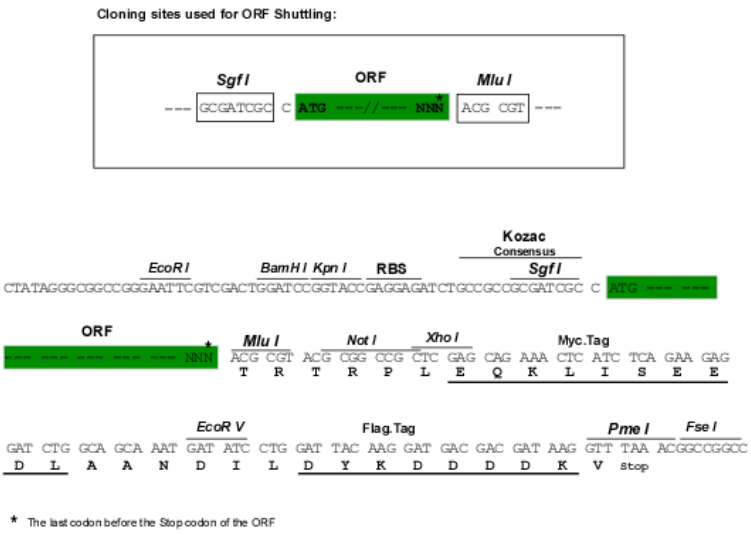
>MR230353 representing NM_001293651
Red=Cloning site Green=Tags(s)

MLLLLLLLLPLCWAVEVKRPRGVSLSNHHFYEESKPFTCLDGTATIPFDQVNDDYCDCKDGSDEPGTAAC
PNGSFHCTNTGYKPLYILSSRVNDGVCDCCDGTDEYNSGTVCENTCREKGRKEKESLQQLAEVTREGFRL
KKILIEEWKTAREEKQSKLLELQAGKKSLEDQVETLRAAKEEAERPEKEAKDQHRKLWEEQQAAAKARRE
QERAASAFQELDDNMDGMVSLAELQTHPELDTDGDGALSEEEAQALLSGDTQTDTTSFYDRVWAAIRDKY
RSEVPPTDIPVPEETEPKEEKPPVLPPTEEEEEEEEPEEEEEEEEEEEAPPPLQPPQPPSPTEDEKMP
PYDEETQAIIDAAQEARSKFEEVERSLKEMEESIRSLEQEISFDFGPSGEFAYLYSQCYELTTNEYVYRL
CPFKLVSQKPKHGGSPTSLGTWGSWAGPDHDKFSAMKYEQGTGCWQGPNRSTTVRLLCGKETVVTSTTEP
SRCEYLMELMTPAACPEPPPEAPSDGDHDEL

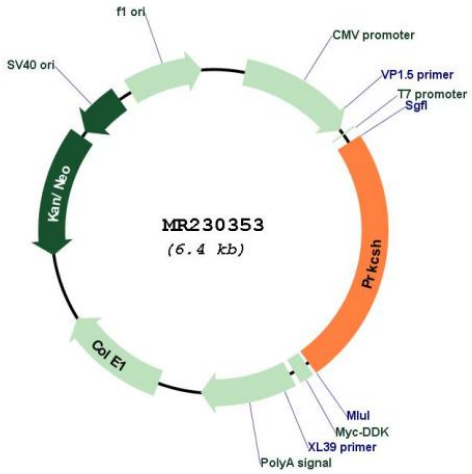
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001293651
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_001293651.1, NP_001280580.1
RefSeq Size:	2069 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]