

Product datasheet for **MG208468**

Prkcsh (BC009816) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prkcsh (BC009816) 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:

>MG208468 representing BC009816
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGCTGCTGCTGCTACTACTACTACCCTCTGTTGGCTGTAGAAGTCAAGAGACCCCGGGCGTTT
 CCCTCAGCAACCATCACTTCTATGAAGAATCTAAACCTTTACCTGTTTGACGGCACAGCCACCATCCC
 ATTCGATCAGGTGAACGACGACTACTGCGACTGTAAAGACGGTTCAGATGAGCCTGGCACAGCTGCTTGT
 CCCAATGGCAGCTTTCCTGACCAACTGGGTACAAGCCCTGTACATCCTCTCCAGCCGGTCAATG
 ATGGGGTATGTGACTGCTGTGATGGCACAGACGAGTACAACAGCGGCACGGTCTGCGAGAACACCTGCAG
 AGAGAAGGTGCGAAGGAAAAAGAGTCCCTGCAGCAGCTGGCGGAAGTACCCCGTGAAGGGTTCGCGCTG
 AAGAAGATTCTATTGAGGAGTGAAGACAGCCCGGAAGAAAAGCAGAGTAAGCTTCTTGAGCTTCAGG
 CTGAAAGAGTCTCTGGAAGACCAGGTAGAAACTGCGGGCAGCGAAAGAAGAAGCAGAGAGGCCAGA
 GAAGGAGGCCAAGGACCAGCACCAGGAGCTGTGGGAAGAGCAGCAAGCTGCTGCAAGGCCCGGGCGGAA
 CAGGAGCGGGCAGCCAGTGCCTTCCAGGAACCTGACGACAACATGGATGGATGGTCTCGCTGGCTGAGT
 TACAGACTCACCCGGAGCTGGACACAGATGGAGATGGAGCGCTGTCTGAGGAGGAGGCCAGGCCCTTCT
 CAGTGGAGACACAGACTGACACCACCTCTTATGACCGTGTCTGGCTGCCATCAGGGACAAGTAC
 CGCTCTGAGGTCCCGCCACTGACATACCTGTTCCGGAGGAGACTGAGCCCAAAGAGGAAAAGCCACCAG
 TGTGCCACCCACAGAGGAGGAGGAAGAGGAGGAGGAGGCCAGAAGAAGAGGAGGAGGAAGAGGAAGA
 GGAGGAGTGCAGGGGAGCAGCCCAAGGAGGCTCCGCCCCACTGCAGCCCCACAGCTCCAGCCCC
 ACAGAGGATGAGAAGATGCCGCCCTATGATGAGGAGACCAGGCCATCATCGATGCTGCACAGGAGGCC
 GGAGTAAGTTTGAGGAAGTCAACGGTCTTGAAGAGATGGAAGAGTCCATCAGGATTTGAAACAGA
 GATCTCCTTTGATTTCCGGTCCCTCTGGAGAGTTTGCATATCTCTACAGCCAATGCTACGAGCTCACACC
 AATGAGTACGCTACCGCTTTGCCCTTCAAACCTGGTCTCCAGAAACCAAACATGGGGCTCCCGCA
 CCAGCCTGGGCACATGGGGCTCTGGGCTGGCCCTGATCATGACAAGTTCAGTGCATGAAGTACGAGCA
 GGGCAGGGCTGTTGGCAGGGCCCAACCGATCCACCACAGTGCAGCTGTGTGGCAAAGAGACTGTG
 GTGACCAGCACCAGGAGCCAGTCGCTGTGAGTACCTCATGGAGCTGATGACACCAGCAGCTGCCAG
 AGCCGCCACCAGAAGCACCAGTGTGGGACCATGACGAGCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208468 representing BC009816
 Red=Cloning site Green=Tags(s)

MLLLLLLLLLPLCWAVEVKRPRGVSLSNHHFYEESKPFCTLDGTATIPFDQVNDYDCCKDGSDEPGTAAC
 PNGSFHCTNTGYKPLYILSSRVNDGVDCDDGTDEYNSGTVCENTCREKGRKEKESLQQLAEVTREGFRL
 KKILIEEWKTAREEKQSKLLELQAGKKSLEDQVETLRAAKEEAERPEKEAKDQHRKLEWEEQAAAKARRE
 QERAASAFQELDDNMDGMVSLAELQTHPELDTDGDGALSEEEAQLLSGDTQDTSFYDRVWAAIRDKY
 RSEVPPTDIPVPEETEPKEEKPPVLPPTEEEEEEEEPEEEEEEEEEVQGEQPKAPPPLQPPQPPSP
 TEDEKMPPYDEETQAIIDAAQEARKSFEEVERSLKEMEESIRSLEQEIFDFGPSGEFAYLYSQCYELTT
 NEYVYRLCPFKLVSQPKKHGGSPTSLGTWGSWAGPDHDKFSAMKYEQGTGCWQGNRSTTVRLLCGKETV
 VTSTTEPSRCEYLMELMTPAACPEPPPEAPSDGDHDEL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

ACCN:	BC009816
ORF Size:	1584 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:	BC009816.1
RefSeq Size:	2011 bp
RefSeq ORF:	1586 bp
Locus ID:	19089
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]