

Product datasheet for **MR218280**

Prkd3 (NM_001171004) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prkd3 (NM_001171004) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prkd3
Synonyms:	4930557O20Rik; 5730497N19Rik; Pkcnu; PKD3; Prkcn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR218280 representing NM_001171004
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGCAAATAATCCCTCCATCAGCCAGAATCTGTGTTCCCTGCAACTGTTTCTGCTGTGCTTC
 CAGCTCCTTCTCGTGTTCAAGTCCAAAACAGGACTCTCAGCTCGGCTCTCTAATGGCAGCTTCAGTGC
 CCCGCTACTCACAACTCTAGAGGCTCAGTGCACACAGTTTCATTTCTACTTCAGATTGGCCTCACACGA
 GAGAGTGTACCATCGAGGCCAGGAAGTGTCTCTCTGCTGTCAAAGACCTCGTGTGCTCCATTGTTT
 ATCAGAAGTTTCCAGAGTGTGGATTCTTTGGCATGTATGATAAAATTTCTCTCTTTCGCCACGACATGAA
 CTCAGAAAACATTTTGCAGCTGATTACCTCAGCAGATGAAATACATGAAGGGACCTGGTAGAAGTTGTC
 CTGTCAGCTTTGGCCACAGTGAAGACTCCAGATCCGCCCTCACGCTCTCTATGTACATTTTACAAG
 CACCTACTTTTTGTGATTACTGTGGTAAATGCTCTGGGGACTGGTACGTCAGGATTAAAATGTGAAGG
 CTGTGGATTAAAATATCATAAACGATGTGCCTCAAGATTCCAAATAACTGCAGTGGAGTAAAGAAAGAGA
 CGTCTGTCAAATGTATCTCTGCCAGGACCTGGCCTCTCAGTTCGAAGACCCTGCAGCCTGAGTGTGTGC
 CCCTTCTCAGTGAAGAGTCACATACTACCAAGAGCCAGTAAGAGAATCCCGTCGTGGAGTGGTGTGTC
 GATCTGGATGGAAAAGATGGTAATGTGCAGGGTCAAAGTCCCTCACACATTTGCTGTCCACTCTTATGGC
 CGCCCCACCATATGCCAGTACTGCAAGCGCTGTGAAAGGCCTTCCGCCAAGGGATGCAGTGTAAAG
 ATTGCAAATCAACTGCCATAAACGCTGTGCATCCAAAGTACCAAGAGACTGCCTTGGCGAAGTTACTTT
 CAATGGAGAGCCGTGCAGCGTGGGGACTGATGCAGACATGCCATGGATATTGACAGTAGTGTGAAC
 AGTGTGGCAGTAGGGGCTTGGATGACTCAGAGGAGCCGTCCCGCCGAAGACAAGATGTTCTTCTCG
 ACCCGACTGATCGACGTGGAGCGAGATGAGGAGACTGTTAAGACAATCAGTCCATCCACCAGCAATAA
 TATCCCGCTGATGAGGGTGGTGCAGTCCATCAAGCACACAAGAGGAGGAGCAGCACAGTTGTGAAGGAA
 GGGTGGATGGTCCACTACACCAGCAGGGACAACCTGAGAAAAGAGACATTATTGGAGACTTACAGTAAAT
 GTCTAACATTGTTTCAAATGAATCTGGATCAAAGTATTATAAGGAAATCCACTTTCAGAAAATTCGG
 TGTATCTTACCAGCAAGATTTACCAGCATTTACAAGGCAGTAACCCACACTGTTTTGAAATCATCACC
 GATACCGTGGTATACTTTGTTGGTGAACAATGGGAGCAGCTCTCATAATCCTGTTCTCGCTGCCACTG
 GAGTGGGACTAGATGTGGCGCAGAGCTGGGAAAAGCAATTCGCCAGGCCCTCATGCCTGCACTCCTCA
 AGCAAGTGTGGCACTTCTCCGGGCAAGGAAGGACCACAAAGATCTGGCTACCAGTATCTCCGTGTCT
 AACTGTCAGGTTCAAGGAAATGTGACATCAGCAGCGTTTACCAGATCTTTGCGGACGAGGTGCTTGGTT
 CTGGCCAGTTTGGCATTGTTTATGGAGGAAAACACAGAAAAGACGGGAAGGGATGTGGCTATTAAGTGAT
 TGATAAAATGAGGTTCCCAACAAGCAAGAGAGTCAAGTCCGGAACGAAGTGGCCATTTACAGAATCTG
 CACCATCTGGGATTGTAACCTGGAGTGTATGTTTGAACCCCAAGAGTCTTCGTGGTGTGGAAA
 AGCTCCATGGAGATATGTTGGAAATGATTTGTCCAGTAAAAGAGTTCGACTTCCAGAACGGATTACCAA
 ATTCATGGTCACACAGATACTTGTTCCTTGGGAATTTACATTTCAAGAATATTGTGCACTGTGATTTA
 AAGCCGAAAAATGTGCTGCTTGCATCCGCAGAGCCATTTCTCAGGTGAAGCTGTGTGACTTTGGGTTT
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 AGTGGCACATTCCATTCAATGAAGATGAAGATATAAATGACCAATCCAAAACGCTGCGTTTATGTACC
 CACCAAATCCATGGCGAGAAATTTCCAGTGAAGCAATTGACTTGATAAAACAATTGCTTCAAGTGAAGAT
 GAGAAAACGATACAGTGTGACAAATCTCTCAGTCATCCTTGGCTACAGGATTATCAGACTTGGCTTGC
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 TACACGCATACACGACAATCTGGAATACCAAGCATTTTATTATGGCCCCAACCCAGACGACATGGA
 GGAGGATCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218280 representing NM_001171004
 Red=Cloning site Green=Tags(s)

MSANNPPSAQKSVFPATVSAVLPAPSPCSSPKTGLSARLSNGSFSAPSLTNSRGSVHTVSFLLQIGLTR
 ESVTIEAQELSLSAVKDLVCSIVYQKFPECGFFGMYDKILLFRHDMNSENILQLITSADEIHEGDLVEVV
 LSALATVEDFQIRPHALVYHSYKAPTFCDYCGEMLWGLVRQGLKCEGCGLNYHKRCAFKIPNNCSGVRKR
 RLSNVSLPGPGLSVPRPLQPECVPLLSEESHTHQEPSKRIPSWSGRPIWMEKMVMCRVKVPHTFAVHSYG
 RPTICQYCKRLLKGLFRQGMQCKDCKFNCHKRCASKVPRDCLGEVTFNGEPCSVGTADAMPMDIDSSDVN
 SDGSRGLDDSEEPSPPEDKMFLLDPTDLDERDEETVKTISPSTSNNIPLMRVVQSISKHTKRRSSTVYKE
 GWMVHYTSRDNLKRHYWRLDSKCLTLFQNESGSKYYKEIPLSEILRVSSPDFTSISQGSNPHCFEIT
 DTVVYFVGENGSSSHNPVLAATGVGLDVAQSWEKAIRQALMPVTPQASVCTSPGQGDHKLATSISVS
 NCQVQENVDISSVYQIFADEVLGSGQFGIVYGGKHKRKTGRDVAIKVIDKMRFPKQESQLRNEVAIQL
 HHPGIVNLECMFETPERVFVMEKLGDMLEMLSSEKSRLPERITKFMVTQILVALRNLHFKNIVHCDL
 KPENVLLASAEPFPQVKLCDFGFARIIGEKSFRRSVVGTAYLAPEVLRKGYNRSLDMWSVGVIVVYVSL
 SGTFFPNEDEDINDQIQNAAFMYPPNPWREISSEIDLINLLQVKMRKRYSDKLSLHPWLQDYQTWLD
 LRFETRIGERYITHESDDARWEIHAYTHNLEYPKHFIMAPNPDDMEEDP

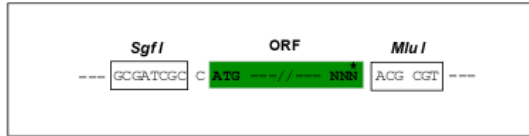
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9009_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

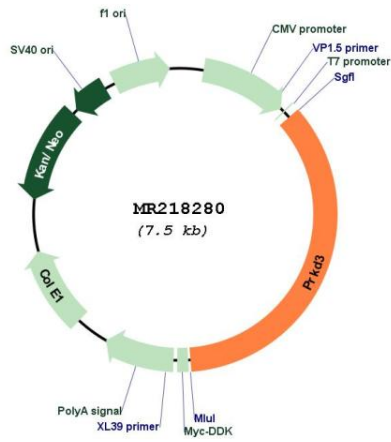


* The last codon before the Stop codon of the ORF

ACCN: NM_001171004

ORF Size:	2670 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_001171004.1 , NP_001164475.1
RefSeq Size:	5887 bp
RefSeq ORF:	2673 bp
Locus ID:	75292
Cytogenetics:	17 E3
MW:	100.7 kDa
Gene Summary:	Converts transient diacylglycerol (DAG) signals into prolonged physiological effects, downstream of PKC. Involved in resistance to oxidative stress (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218280