

Product datasheet for **MR227729**

Pkig (NM_001277096) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pkig (NM_001277096) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pkig
Synonyms: PKIgamma
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR227729 representing NM_001277096
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATGGAAGTCGAGTCCTCCTACTCGGACTTCATCTCCTGCGACCGGACAGGCCGTCGGAATGCAGTCC
CTGACATCCAGGGTGACTCGGAGGCCGTGAGTGTGCGGAAGCTCGCTGGAGACATGGCGAGCTCGCACT
TGAGGGAGCAGGACAGGCAGAGGGAAGTACCCCGACAAGGAAGCCAGCCAGCCTGAGAGCAGTGAT
GCGAACACCTCATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227729 representing NM_001277096
Red=Cloning site **Green**=Tags(s)

MMEVESSYDFISCDRTGRRNAVPIQGDSEAVSVRKLADGMGELALEGAGQAEGSTPDKEASSQPESSD
ANTSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

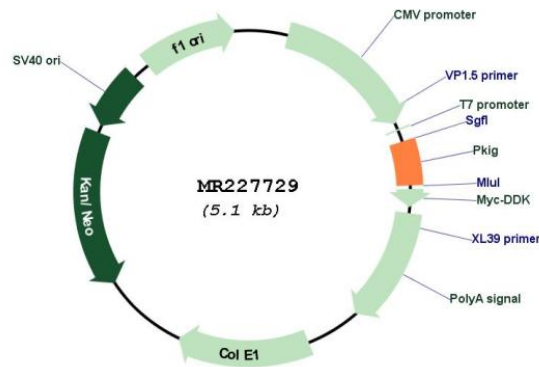


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001277096

ORF Size: 225 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:	<u>NM_001277096.1, NP_001264025.1</u>
RefSeq Size:	1050 bp
RefSeq ORF:	228 bp
Locus ID:	18769
Cytogenetics:	2 84.4 cM
MW:	8.3 kDa
Gene Summary:	Extremely potent competitive inhibitor of cAMP-dependent protein kinase activity, this protein interacts with the catalytic subunit of the enzyme after the cAMP-induced dissociation of its regulatory chains.[UniProtKB/Swiss-Prot Function]