

Product datasheet for **RR215697**

Pkm (NM_053297) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pkm (NM_053297) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pkm
Synonyms:	PK; Pk3; Pkm2; PKM12
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR215697 representing NM_053297
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAAGCAGACAGCGAAGCAGGGACTGCCTTCATTAGACCCAGCAGCTCCATGCAGCCATGGCTG
 ACACCTTCTGGAACACATGTGCCGCTGGACATTGACTCCGCACCCATCACGGCCGCAACACTGGGAT
 CATCTGTACCATTGGCCCTGCTTCCCGATCTGTGGAGATGCTGAAGGAGATGATTAAGTCTGGGATGAAT
 GTGGCTCGGCTGAATTTCTCATGGAACCCATGAGTACCATGCAGAGACTATCAAGAATGTCCTGTCAG
 CCACAGAAAGCTTTGCATCTGATCCATTCTTACCGACCTGTTGCGGTGGCTCTGGATACAAAGGGACC
 TGAGATCCGGACTGGACTCATCAAGGGCAGCGCACCCGAGAGGTGGAGCTGAAGAAGGGAGCCACTG
 AAGATCACCTGGACAACGCCTACATGGAGAAGTGGATGAGAACATCCTGTGGCTGGACTATAAGAACA
 TCTGCAAGGTGGTGGAGGTGGCAGCAAGATCTACGTGGACGATGGGCTCATCTCCCTGCAGGTGAAGGA
 GAAAGGTGCTGACTACCTGGTGACAGAAGTGAAAATGGTGGCTCCTTGGCAGCAAGAAGGGCGTGAAC
 CTGCTGGTGTCTGTGGACCTCCCTGCTGTGTGAGAAAAGGACATCCAGGACCTGAAGTTGGGGTGG
 AGCAGGACGTGGACATGGTGTTCATCCGCAAGGCGGCTGACGTGCATGAGGTTAGGAAGGT
 CCTGGGAGAGAAGGGCAAGAACATCAAGATCATCAGAAAATCGAGAACCATGAAGGTGTCCGCAGGTTT
 GATGAGATTTTGGAGGCCAGCGATGGAATCATGGTAGCTCGTGGTGGACCTGGGCATTGAGATCCGGCAG
 AGAAGGTCTTCTAGCTCAGAAGATGATGATTGGACGATGCAACCGAGCTGGGAAGCCAGTCATCTGCGC
 CACCCAGATGCTGGAGAGCATGATCAAGAAGCCACGCCCCACCCGTGTAAGGCCAGTGACGTGGCCAT
 GCAGTCCTAGATGGAGCTGACTGCATCATGCTGTCCGGAGAAACAGCCAAAGGGGACTACCTCTGGAGG
 CTGTTCCGATGCAGCACCTGATAGCTCGAGAGGCTGAGGCACCGTGTTCACCGCTGCTTTTGAAGA
 GCTTGGCGGAGCCTCCAGTCAATCCACAGACCCCTGGAGGCCATGGCCATGGGCAGCGTGGAGGCCTCT
 TATAAATGTTTAGCAGCAGCTTTGATAGTTCTGACGGAGTCCGGCAGGAGTGCTACCAAGTGGCCCGT
 ACCGCCAAGGGCTCCTATCATTGCTGTGACACGCAATCCCAGACAGCCCGCCAGGCCCATCTGTACCG
 TGGCATCTTCCCTGTGCTGTGTAAGGATGCCGTAAGTGCCTGGGCTGAGGACGTTGATCTTCGTGTG
 AACTTGGCCATGAATGTTGGCAAGGCCGAGGCTTCTTCAAGAAGGGAGATGTGGTCATTGTGCTGACTG
 GATGGCGCCCTGGCTCTGGCTTACCAACACCATGCGTGTAGTGCCTGTACCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR215697 representing NM_053297
 Red=Cloning site Green=Tags(s)

MPKPDSEAGTAFIQQLHAAMADTFLEHMCRLDIDSAPITARNTGIICTIGPASRSVEMLKEMIKSGMN
 VARLNFSHGTHEYHAETIKNVRAATESFASDPILYRPVAVALDTKGPEIRTGLIKSGTAEVELKKGATL
 KITLDNAYMEKCDENILWLDYKNICKVVEVGSKIYVDDGLISLQVKEKGADYLVEVENGGSLGSKKGVN
 LPGAAVDLPAVSEKDIQDLKFGVEQDVMVFAFIRKAADVHEVRKVLGEKGKNIKIIISKIENHEGVRFF
 DEILEASDGMVARGDLGIEIPAQKMMIGRCNRAGKPVICATQMLESMIKKPRPTRAEGSDVAN
 AVLDGADCIMLSGETAKGDYPLEAVRMQHLIAREAEAAVFRLLFEELARASSQSTDPLEAMAMGSVEAS
 YKCLAAALIVL TESGRSAHQVARYRPRAPIIAVTRNPQTARQAHL YRGIFPVLCDAVLDAWAEDVDLRV
 NLAMNVGKARGFFKKGDVVIVL TGWRPGSGFTNTMRVVPVP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

ACCN:	NM_053297
ORF Size:	1593 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_053297.2 , NP_445749.1
RefSeq Size:	1971 bp
RefSeq ORF:	1596 bp
Locus ID:	25630
UniProt ID:	P11980
Cytogenetics:	8q24
MW:	57.8 kDa
Gene Summary:	M1 and M2 isozymes of pyruvate kinase; catalyzes the conversion of ATP and pyruvate to ADP and phosphoenolpyruvate in glycolysis [RGD, Feb 2006]