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Product datasheet for RR212849

Prkce (NM_017171) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prkce (NM_017171) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prkce
Synonyms:	Pkce
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RR212849 representing NM_017171
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTAGTGTTCAATGGCCTTCTTAAGATCAAAATCTGCGAGGCCGTGAGCTTGAAGCCCACAGCCTGGT
CGCTGCGCCATGCGGTGGGACCCCGGCCCCAGACGTTCCTTCTGGACCCCTACATTGCCCTTAACGTGGA
CGACTCGCGCATCGGCCAAACAGCCACCAAGCAGAAGACCAACAGTCCGGCCTGGCACGATGAGTTCGTC
ACTGATGTGTGCAATGGGCGCAAGATCGAGCTGGCTGTCTTTCACGATGCTCCTATCGGCTACGACGACT
TCGTGGCCAACTGCACCATCCAGTTCGAGGAGCTGCTGCAGAATGGGAGCCGTCACTTCGAGGACTGGAT
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GGATTTCATCTGGGGTGTCATAGGAAAACAGGGATATCAATGTCAAGTTTGTACCTGCGTCGTCCACAAA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR212849 representing NM_017171
Red=Cloning site Green=Tags(s)

MVVFNGLLKIKICEAVSLKPTAWSLRHAVGPRPQTFLLDPYIALNVDDSRIGQTATKQKTNSPAWHDEFV
TDVCNGRKIELAVFHDAPIGYDDFVANCTIQFEELLQNGSRHFEDWIDLEPEGKVYVIIDLSGSSGEAPK
DNEERVFRERMRPRKRQGAVRRRVHQVNGHKFMATYLRQPTYCSHCRDFIWGVIGKQGYQCQVCTCVVHK
RCHELIITKCAGLKKQETPDEVGSQRFSVNMPHKFGIHNYKVPTFCDHCGSLLWGLLRQGLQCKVCKMNV
HRRCETNVAPNCGVDARGIAKVLADLGVTPDKITNSGQRRKKLAAGAESPQPASGNSPSEDDRSKSAPTS
PCDQELKELENNIRKALSFDNRGEEHRASSSTDGQLASPGENGEVRQGQAKRLGLDEFNFIKVLGKGSFG
KVMLAELKGKDEVYAVKVLKKDVILQDDDVDCTMTEKRILALARKHPYLTQLYCCFQTKDRLFFVMEYVN
GGDLMFQIQRSRKFDEPRSGFYAAEVTSALMFLHQHGVIYRDLKLDNILLDAEGHSKLADFGMCKEGILN
GVTTTTFCGTPDYIAPEILQELEYGPSVDWWALGVLMYEMMAGQPPFEADNEDDLFESILHDDVLYPVWL
SKEAVSILKAFMTKNPHKRLGCVAAQNGEDAIKQHPFFKEIDWVLLEQKKMKPPFKPRIKTKRDVNNFDQ
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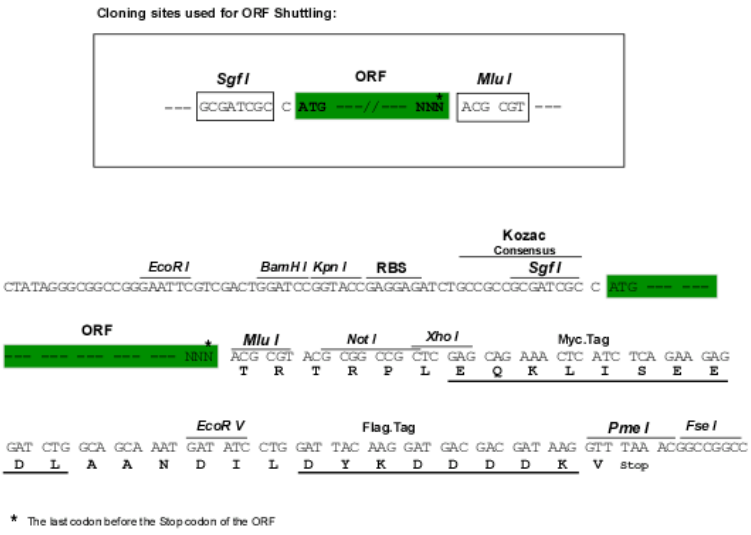
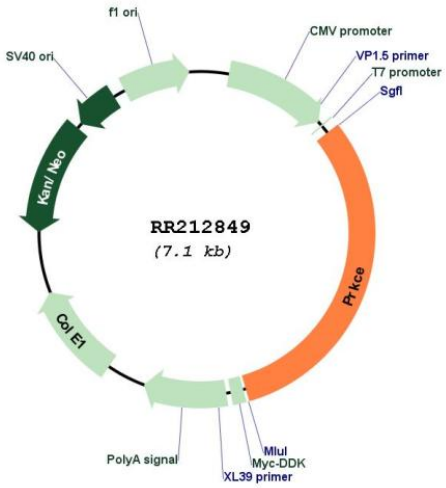
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_017171
ORF Size:	2211 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_017171.1, NP_058867.1
RefSeq Size:	2704 bp
RefSeq ORF:	2214 bp
Locus ID:	29340

UniProt ID:	P09216
Cytogenetics:	6q12
MW:	83.5 kDa
Gene Summary:	has phospholipid and diacylglycerol-dependent activity; plays a role in ouabain induced Na+/K+-ATPase mediated signal transduction in cardiac myocytes [RGD, Feb 2006]