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Product datasheet for MR205941

Prkar1a (NM_021880) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prkar1a (NM_021880) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prkar1a
Synonyms:	1300018C22Rik; R; RIalpha; Tse; Tse-; Tse-1; Tse1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205941 representing NM_021880 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGTCTGGCAGTATGGCAACCAGTGAGGAAGAGCGGAGTCTCCGGGAATGCGAGCTCTATGTGCAGA AGCACAATATCCAGGCCCTGCTGAAGGACTCCATCGTGCAGCTGTGCACTACGCGGCCCGAGAGGCCCAT GGCATTCCTTCGGGAATACTTTGAGAGGTTGGAGAAGGAGGAGGCAAGACAGATTCAGTGTCTACAGAAA ACCGGCATCCGTACTGACTCGAGGGAGGACGAGATCTCTCCTCCACCCCCCAATCCAGTGGTGAAGGGCC GACGGCGCCGAGGTGCTATCAGTGCTGAAGTTTACACTGAGGAGGATGCTGCCTCCTACGTTAGAAAGGT TATTCCAAAAGATTATAAGACAATGGCTGCTTTAGCCAAGGCCATCGAAAAGAATGTGCTGTTTTCACAC CTTGATGATAACGAGAGAAGTGACATTTTTGATGCTATGTTTCCAGTCTCCTTTATTGCTGGAGAGACGG TTATTCAGCAAGGTGATGAAGGGGATAACTTCTATGTGATTGATCAAGGAGAAATGGATGTCTATGTCAA TAATGAATGGGCAACCAGTGTTGGGGAAGGAGGGAGCTTTGGAGAGCTGGCTTTGATTTATGGAACACCC AGAGCAGCCACTGTCAAAGCAAAGACAAACGTGAAACTGTGGGGCATCGACCGAGACAGCTACCGAAGAA TCCTCATGGGAAGCACTCTGCGAAAGAGGAAGATGTATGAAGAATTCCTTAGTAAAGTGTCTATTTTAGA GTCTCTGGACAAGTGGGAGCGTCTCACAGTAGCCGATGCATTGGAGCCTGTCCAGTTTGAAGATGGACAG AAGATCGTGGTGCAAGGAGAGCCGGGGGATGAGTTCTTCATCATTTTAGAGGGCACAGCTGCTGTGCTGC AGCGTCGGTCAGAAAACGAAGAATTTGTTGAAGTGGGACGACTGGGGCCTTCTGATTATTTTGGTGAAAT TGCCCTGCTGATGAATCGTCCTCGGGCTGCCACTGTGGTTGCCCGGGGCCCTTTGAAGTGCGTTAAGTTG GACCGGCCTCGGTTTGAACGCGTCCTTGGCCCGTGCTCAGACATCCTCAAGCGGAACATCCAGCAGTACA ACAGCTTCGTGTCCCTGTCCGTC AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC TGGATTACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

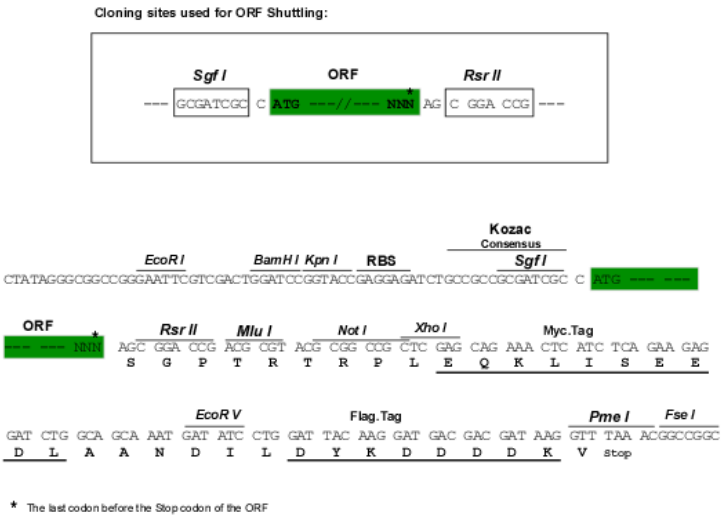
>MR205941 representing NM_021880
Red=Cloning site Green=Tags(s)

MASGSMATSEEERSLRECELYVQKHNIQALLKDSIVQLCTTRPERPMAFLREYFERLEKEEARQIQCLQK
TGIRTDSREDEISPPPPNPVVKGRRRRGAISAEVYTEEDAASYVRKVIPKDYKTMAALAKAIEKNVLFSH
LDDNERSDIFDAMFPVSFIAGETVIQQGDEGDNFYVIDQGEMDVYVNNEWATSVGEGGSFGELALIYGTP
RAATVKAKTNVKLWGIDRDSYRRILMGSTLRKRKMYEEFLSKVSILESLDKWERLTVADALEPVQFEDGQ
KIVVQGEPGDEFFIILEGTAAVLQRRSENEEFVEVGRLGPSDYFGEIALLMNRPRAATVVARGPLKCVKL
DRPRFERVLGPCSDILKRNIQQYNSFVSLSV

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_021880

ORF Size: 1143 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_021880.4

RefSeq Size: 3324 bp

RefSeq ORF: 1146 bp

Locus ID: 19084

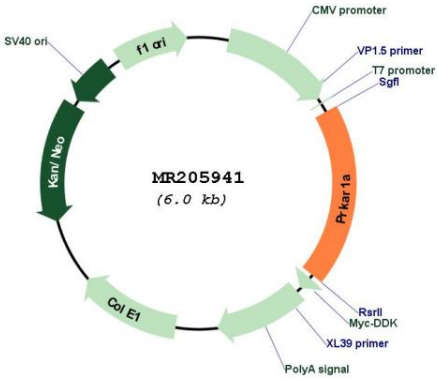
UniProt ID: Q9DBC7

Cytogenetics: 11 72.33 cM

MW: 43.6 kDa

Gene Summary: The encoded protein is a regulatory subunit of the cAMP-dependent protein kinase (PKA) complex, which is responsible for transducing most of the cAMP signals in eukaryotic cells. The inactive PKA complex contains two regulatory and two catalytic subunits. Binding of cAMP dissociates the complex, allowing monomeric catalytic subunits to phosphorylate cytosolic proteins or induce gene expression in the nucleus. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR205941