

Product datasheet for **MG205941**

Prkar1a (NM_021880) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prkar1a (NM_021880) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Prkar1a
Synonyms: 1300018C22Rik; R; R1alpha; Tse; Tse-; Tse-1; Tse1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205941 representing NM_021880
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGTCTGGCAGTATGGCAACCAGTGAGGAAGAGCGGAGTCTCCGGAATGCGAGCTCTATGTGCAGA
 AGCACAATATCCAGGCCCTGCTGAAGGACTCCATCGTGCAGCTGTGCACTACGCGGCCGAGAGGCCCAT
 GGCATTCCTTCGGAATACTTTGAGAGGTTGGAGAAGGAGGAGGCAAGACAGATTCAGTGTCTACAGAAA
 ACCGGCATCCGTACTGACTCGAGGGAGGACGAGATCTCTCCTCCACCCCAATCCAGTGGTGAAGGGCC
 GACGGCCCGAGGTGCTATCAGTGTGAAGTTTACTGAGGAGGATGCTGCCTCTACGTTAGAAAGGT
 TATTCCAAAAGATTATAAGACAATGGCTGCTTTAGCCAAGGCCATCGAAAAGAATGTGCTGTTTTACAC
 CTTGATGATAACGAGAGAAGTGACATTTTTGATGCTATGTTCCAGTCTCCTTTATTGCTGGAGAGACGG
 TTATTCAGCAAGGTGATGAAGGGGATAACTTCTATGTGATTGATCAAGGAGAAATGGATGTCTATGTCAA
 TAATGAATGGGCAACCAGTGTGGGGAAGGAGGGAGCTTTGGAGAGCTGGCTTTGATTTATGGAACACCC
 AGAGCAGCCACTGTCAAAGCAAAGACAAACGTGAAACTGTGGGCATCGACCGAGACAGCTACCGAAGAA
 TCCTCATGGGAAGCACTCTCGAAAGAGGAAGATGTATGAAGAATTCCTTAGTAAAGTGTCTATTTTAGA
 GTCTCTGGACAAGTGGGAGCGTCTCACAGTAGCCGATGCATTGGAGCCTGCCAGTTTGAAGATGGACAG
 AAGATCGTGGTGAAGGAGAGCCGGGGATGAGTTCTTCATCATTTTGAAGGGCACAGCTGTGTGCTGC
 AGCGTCGGTCAGAAAACGAAGAATTTGTTGAAGTGGGACGACTGGGCCTTCTGATTATTTTGGTGAAT
 TGCCCTGCTGATGAATCGTCTCGGGCTGCCACTGTGGTTGCCCGGGCCCTTTGAAGTGCGTAAAGTTG
 GACCGCCTCGGTTTGAACGCGTCTTGCCCGTCTCAGACATCCTCAAGCGGAACATCCAGCAGTACA
 ACAGCTTCGTGTCCCTGTCCGTC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205941 representing NM_021880
 Red=Cloning site Green=Tags(s)

MASGSMATSEERSLRECELYVQKHNIQALLKDSIVQLCTTRPERPMAFLREYFERLEKEEARQIQCLQK
 TGIRTDSREDEISPPPPNPVVKRRRRGAI SAEVYTEEDAASYVRKVIPKDYKTMALAKAIEKNVLF SH
 LDDNERSDIFDAMFPVSFIAGETVIQQGDEGDNFYVIDQGEMDVVYNNNEWATSVGEGGSGFELAL IYGTP
 RAATVKAKTNVKLWGIDRDSYRRLIMGSTLRKRKMYEEFLSKVSILESLDKWERLTVADALEPVQFEDGQ
 KIVVQGEPGDEFFIILEGTA AVLQRRSENEEFVEVGR LGPSDYFGEIALLMNRPR AATVVARGPLKCVKL
 DRPRFERVLGPCSDILKRNIQQYNSFVLSLV

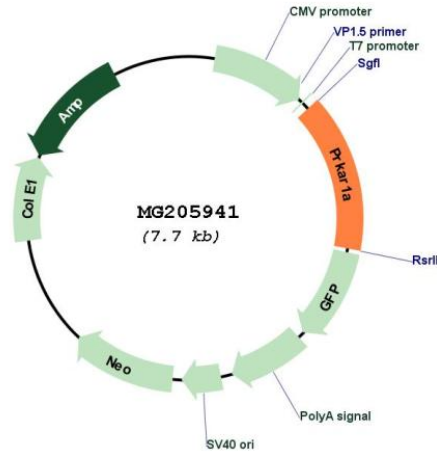
SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



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:	<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_021880.4
RefSeq Size:	3324 bp
RefSeq ORF:	1146 bp
Locus ID:	19084
UniProt ID:	Q9DBC7
Cytogenetics:	11 72.33 cM
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]