

Product datasheet for **MG205954**

Prkar1b (NM_008923) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prkar1b (NM_008923) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prkar1b
Synonyms:	A1385716; Ribeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205954 representing NM_008923 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCCCCATCATGCTTCCACTCGGAGGACGAGGACTCTCTGAAAGGATGCGAGATGTACGTGCAGA
AACATGGCATCCAGCAGGTGCTCAAAGAATGCATTGTGCACCTCTGTGTCGCCAAGCCGGACCGCCACT
GCGATTCTCCGGGAGCACTTTGAGAAGTTGGAGAAGGAGGAAAACAGGCAGATCCTGGCTCGGCAGAAG
TCAAACCCCAGTGTGATTCCCACGATGAGGAGATCTCCCAACACCCCCAACCCCGTGGTCAAGGCGC
GTCGCCGGCGGGTGGTGTGAGTCTGAAGTCTACACTGAAGAAGATGCTGTCTCTACGTGAGGAAGGT
CATTCCCAAGGACTATAAGACCATGACCGCGCTGGCCAAGGCCATTTCCAAGAAGCTGCTTTTTCTCAC
CTGGACGACAACGAGAGAAGTGACATATTTGACGCCATGTTTCCTGTCACTCACATCGGTGGGAAACAG
TCATACAGCAAGGGAATGAAGGAGATAATTTCTATGTGATTGACCAAGGAGAAGTAGATGTATATGTGAA
CGGGGAATGGGTGACCAACATCAGTGAGGGGGGAAGCTTCGGGGAGCTGGCTCTCATCTACGGCACCCCC
AGAGCGGCTACCGTGAAGCCAAGACGGACCTCAAGCTCTGGGGTATCGACCGTGACAGCTACAGGCGCA
TCCTCATGGGAAGCAGCTGAGGAAACGCAAGATGTATGAGGAGTTCTCAGCAAAGTCTCCATCTAGA
ATCCCTGGAGAAGTGGGAACGCCTGACTGTAGCTGATGCCCTGGAGCCTGTGCAGTTTGAAGATGGAGAG
AAAATTGTGTGCAGGGGGAGCCTGGAGATGACTTCTACATCATCAGAGGGCACTTTCAGTCCCTCC
AGCGACGATCCCCAATGAGGAGTACGTGGAAGTGGGGCCCTTGACCCCTTGACTACTTTGGGGAGAT
TGCCCTGCTGCTGAATCGGCCCGTGCAGCCACTGTGGTGGCCCGGGTCCCCTCAAGTGTGTGAAGTTA
GACCGGCTCGTTTTGAGCGTGTCTGGGCCCTGCCCTGAGATCCTGAAGAGGAACATCCAGCGTTACA
ACAGCTTCATCTCCCTAACTGTC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205954 representing NM_008923
 Red=Cloning site Green=Tags(s)

MASPSCFHSEDEDSLKGCEMYVQKHGIQQVLKECIVHLCVAKPDRPLRFLREHFKELEKEENRQILARQK
 SNSQCDSHDEEISPTPPNPVVKARRRRGGVSAEVYTEADAVSYVRKVIPKDYKTMTALAKAISKNVLF SH
 LDDNERSDIFDAMFPVTHIGGETVIQQNEGDNFYVIDQGEVDVYVNGEWTNISEGGSFGEAL IYGTP
 RAATVKAKTDLKWLWIDRDSYRRILMGSTLRKRKMYEEFLSKVSI LESLEKWERLTVADALEPVQFEDGE
 KIVVQGEPGDDFYIITEGTASVLQRRSPNEEYVEVGR LGPSDYFGEIALLLNRPRAATVVARGPLKCVKL
 DRPRFERVLGPCPEILKRNIQRYNSFISLTV

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1662_b05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008923

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_008923.2](#), [NP_032949.2](#)

RefSeq Size: 2583 bp

RefSeq ORF: 1146 bp

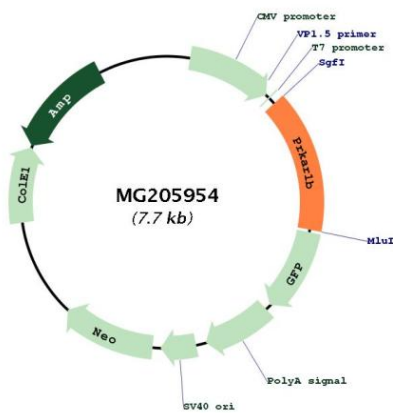
Locus ID: 19085

UniProt ID: [P12849](#)

Cytogenetics: 5 77.74 cM

Gene Summary: Regulatory subunit of the cAMP-dependent protein kinases involved in cAMP signaling in cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205954