

Product datasheet for SC325742

PRKRA (NM_001139517) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRKRA (NM_001139517) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRKRA
Synonyms:	DYT16; HSD14; PACT; RAX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325742 representing NM_001139517. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAAAGCACACCTTTTTGTGGTTTTTGCAGTTTGGGAAGATGATAACAGCTAAGCCAGGGAAAAACA
CCGATTCAGGTATTACACGAATACGGCATGAAGACCAAGAACATCCAGTTTATGAATGTGAAAGATCT
GATGTGCAAAATACACGTGCCACTTTCACCTTCAGAGTAACCGTTGGTGACATAACCTGCACAGGTGAA
GGTACAAGTAAGAAGCTGGCGAAACATAGAGCTGCAGAGGCTGCCATAAACATTTTGAAAGCCAATGCA
AGTATTTGCTTTGCAGTTCCTGACCCCTTAATGCCTGACCCTTCCAAGCAACCAAGAACCAGCTTAAT
CCTATTGGTTCATTACAGGAATTGGCTATTCATCATGGCTGGAGACTTCCTGAATATACCCTTTCCAG
GAGGGAGGACCTGCTCATAAGAGAGAATATACTACAATTTGCAGGCTAGAGTCATTATGGAAGCTGGA
AAGGGGGCATCAAAAAGCAAGCCAAAAGGAATGCTGCTGAGAAATTTCTTGCCAAATTTAGTAATATT
TCTCCAGAGAACCACATTTCTTTAAACAAATGTAGTAGGACATTCTTTAGGATGTACTTGGCATTCTTTG
AGGAATTCTCCTGGTGAAAAGATCAACTTACTGAAAAGAGCCTCCTTAGTATTCCAAATACAGATTAC
ATCCAGCTGCTTAGTGAAATTGCCAAGGAACAAGGTTTAAATATAACATATTTGGATATAGATGAAGTG
AGCGCCAATGGACAATATCAATGTCTTGCTGAAGTGTCCAGGAGGAGGATCTGGCAGCAATGATATCCTGGAT
GGTATCTCCTGTGGCAATGCACAAAGTGATGCAGCTACAATGCTTTGCAGTATTTAAAGATAATAGCA
GAAAGAAAGTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCCGGC
  
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Restriction Sites:	SgfI-MluI
ACCN:	NM_001139517
Insert Size:	909 bp


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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001139517.1](#)

RefSeq Size: 1906 bp

RefSeq ORF: 909 bp

Locus ID: 8575

UniProt ID: [O75569](#)

Cytogenetics: 2q31.2

Protein Families: Druggable Genome

MW: 33.1 kDa

Gene Summary: This gene encodes a protein kinase activated by double-stranded RNA which mediates the effects of interferon in response to viral infection. Mutations in this gene have been associated with dystonia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2008]

Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. This difference causes translation initiation at a downstream AUG and an isoform (2) with a shorter N-terminus compared to isoform 1.