

Product datasheet for **RG205329**

p39 (CDK5R2) (NM_003936) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	p39
Synonyms:	NCK5A1; P39; p39nck5ai
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG205329 representing NM_003936
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCACAGTGTCTCTTTTCGCCTGCCTCCTCGGCCAAGGGCCGGAGGCCCGGGCGGGCTGCCCGAGG
AGAAGAAGAAGGCCGCCCGCGGGGACGAGGCGCTGGGGGGCTACGGGGCGCCGCAAGTGGGCAAGGG
CGGCAAGGCGAGAGCCGACTCAAGCGGCCGTCCGTGCTCATCTCGGCGCTCACCTGGAGGCGCCTGGTG
GCCCGTCCGCCAAGAAGAAGAAGGCAGCAAGAAGGTGACACCAAGCCGGCATCCAGGGCCCCGACC
CCCTGGTCCAGCAACGCAACCGCGAGAACCTTCTCCGCAAGGGCCGGGATCCCCCGACGGCGCGGCAC
CGCCAAGCCCCTGGCGGTGCCAGTGCACCGTGCCTCGGCGGTGCCGCCACCTGCGAGCCACCGTCGGGG
GGCAGCGCGGCCGCTCAGCGCCGGGCTCGGGCGGGGAAAGCCTCCGCCGCCCTCCCCAGCCCCGC
AGGTGGCGCCCGGTGCCTGGCGGCTCGCCGCGGGGTATCGTGCAGGCGTCCACGGCGAGCTGCT
GCGCTGTCTGGGCGACTTCGTGTGCCGACGCTGCTATCGCCTCAAGGAGCTGAGCCCCGGCGAGCTGGTG
GGCTGGTTCGCGGTGTGGACCGCTCGTGTGCTGCAGGGCTGGCAAGACCAGGCCTTCATTACGCCTG
CAAACCTGGTGTTCGTGTACCTGCTGTGCCGCGAGTCGCTGCGTGGGACGAGCTGGCGTCGGCCGCCGA
GCTGCAGGCCGCCCTTCCTCACCTGCCTTACCTCGCTACTCCTACATGGGCAACGAGATCTCCTACCCA
CTCAAGCCCTTCTCGTGGAGCCCGACAAGGAGCGCTTCTGGCAGCGCTGCCTGCGCCTCATCCAGCGGC
TCAGCCCGCAGATGCTGCGGCTCAACGCCGACCCCACTTCTTACGCAGGTCTTCAAGACCTCAAGAA
CGAGGGCGAGGCCGCCGACGCGGGGGGCCACCGAGCGGGGGCGGCCCGCCCTCCTCGGCCGCC
AGGGACAGCTGCGCGCCGGAACCAAGCACTGGACTATGAACCTGGACCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG205329 representing NM_003936

Red=Cloning site Green=Tags(s)

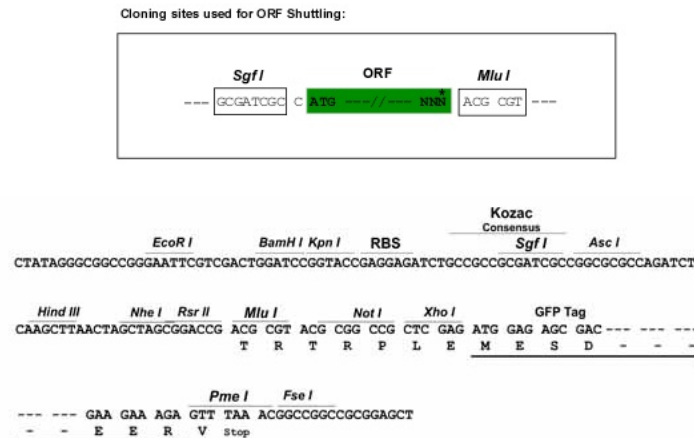
MGTVLSLSPASSAKGRRPGGLPEEKKKAPPAGDEALGGYGAPPVGGKGGESRLKRPSVLISALTWRRLV
AASAKKKKGSKKVTPKPASTGPDPLVQQRNRENLLRKGRDPPDGGGTAKPLAVPPTVPAATAATCEPPSG
GSAAAQPPGSGGGKPPPPPPAPQVAPPVGGSPRRVIVQASTGELLRLCLGDFVCRRCYRLKELSPGELV
GWFRGVDRSLLLQGWQDQAFITPANLVFVYLLCRESLRGDELASAAELQAAFLTCLYLAYSIMGNEISYP
LKPFLVEPDKERFWQRLRLIQRLSPQMLRLNADPHFFTQVFQDLKNEGEAAASGGGPPSGGAPAAASSAA
RDSCAAGTKHWTMNLDR

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_003936

ORF Size:

1101 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:

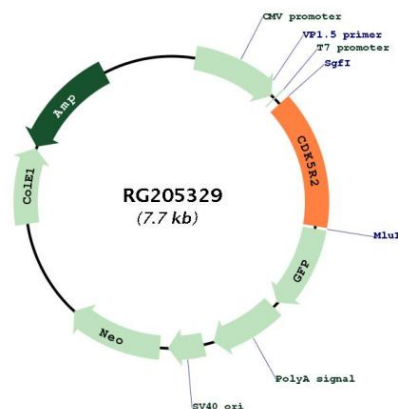
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_003936.3, NP_003927.1</u>
RefSeq Size:	2495 bp
RefSeq ORF:	1104 bp
Locus ID:	8941
UniProt ID:	<u>Q13319</u>
Cytogenetics:	2q35
Protein Families:	Druggable Genome
Gene Summary:	The protein encoded by this gene is a neuron-specific activator of CDK5 kinase. It associates with CDK5 to form an active kinase. This protein and neuron-specific CDK5 activator CDK5R1/p39NCK5A both share limited similarity to cyclins, and thus may define a distinct family of cyclin-dependent kinase activating proteins. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG205329