

## Product datasheet for **SC303403**

### p39 (CDK5R2) (NM\_003936) Human Untagged Clone

#### Product data:

|                           |                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                     |
| Product Name:             | p39 (CDK5R2) (NM_003936) Human Untagged Clone                                           |
| Tag:                      | Tag Free                                                                                |
| Symbol:                   | p39                                                                                     |
| Synonyms:                 | NCK5AI; P39; p39nck5ai                                                                  |
| Mammalian Cell Selection: | Neomycin                                                                                |
| Vector:                   | pCMV6-Entry (PS100001)                                                                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                                    |
| Fully Sequenced ORF:      | >SC303403 representing NM_003936.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**  
 ATGGGCACAGTGTCTCTTTTCGCTGCTCTCGGCCAAGGGCCGAGGCCGGCGGGCTGCCGAG  
 GAGAAGAAGAAGGCGCCGCCCGGGGACGAGGCGCTGGGGGGCTACGGGGCGCCGAGTGGGCAAG  
 GGCGGCAAGGCGAGAGCCGACTCAAGCGGCCGTCCGTGCTCATCTCGGCGCTCACCTGGAAGCGCCTG  
 GTGGCCGCGTCCGCCAAGAAGAAGAAAGGCAGCAAGAAGGTGACACCAAGCCGGCATCCACGGGCCCC  
 GACCCCTGGTCCAGCAACGCAACCGCGAGAACCTTCTCCGAAGGGCCGGGATCCCCCGACGGCGGC  
 GGCACCGCCAAGCCCCTGGCGGTGCCAGTGCCACCGTGCCCGCGGCTGCCGCCACCTGCGAGCCACCG  
 TCGGGGGGCGAGCGCGCCGCTCAGCCGCCGGGCTCGGGCGGGGAAAGCCTCCGCCGCCGCTCCCCCA  
 GCCCCGCAAGTGGCGCCGCCGCTGCTGCGGGCTCGCCGCGCGGGTTCATCGTGCAGGCGTCCACCGGC  
 GAGCTGCTGCGCTGTCTGGGCGACTTCTGTGCGGACGCTGCTATCGCCTCAAGGAGCTGAGCCCGGGC  
 GAGCTGGTGGGCTGGTTCGCGGTGTGGACCGCTCGCTGCTGTCAGGGCTGGCAAGACCAGGCCCTTC  
 ATTACGCTGCAAACCTGGTGTTCGTGTACCTGCTGTGCCGCGAGTCGCTGCGTGGGACGAGTGGCG  
 TCGGCCGCCGAGCTGCAGGCCGCTTCTCACCTGCCTTACCTCGCCTACTCTACATGGGCAACGAG  
 ATCTCTACCCACTCAAGCCCTTCTCGTGGAGCCGACAAGGAGCGCTTCTGGCAGCGCTGCTGCGC  
 CTCATCCAGCGGCTCAGCCCGCAGATGCTGCGGCTCAACGCCGACCCCACTTCTTACGCAGGTCTTT  
 CAAGACCTCAAGAACGAGGGCGAGGCCGCGCCAGCGGCGGGGGCCACCAGCGGGGGCGCGCCCGCC  
 GCCTCTCGGCCGCCAGGACAGCTGCGCGGCCGAACCAAGCACTGGACTATGAACCTGGACCGC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI


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|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ACCN:</b>                  | NM_003936                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Insert Size:</b>           | 1104 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).                                                                                                                                                                          |
| <b>OTI Annotation:</b>        | 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.                                                                                                                                                                                                                                                      |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                    |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| <b>RefSeq:</b>                | <u><a href="#">NM_003936.4</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>RefSeq Size:</b>           | 2528 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 1104 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 8941                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID:</b>            | <u><a href="#">Q13319</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 2q35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Families:</b>      | Druggable Genome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MW:</b>                    | 38.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary:</b>          | 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]                                                                                                                                                        |