

## Product datasheet for **RC212639**

### **SNRK (NM\_001100594) Human Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                        |
| Product Name:             | SNRK (NM_001100594) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                    |
| Symbol:                   | SNRK                                       |
| Synonyms:                 | HSNFRK                                     |
| Mammalian Cell Selection: | Neomycin                                   |
| Vector:                   | pCMV6-Entry (PS100001)                     |
| E. coli Selection:        | Kanamycin (25 ug/mL)                       |



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**ORF Nucleotide  
Sequence:**

>RC212639 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGGATTTAAGCGAGGGTATGATGGAAGATTGCTGGGTTATATGATCTGGATAAAACCTTGGGTC  
 GAGGCCATTTTGCCGTGGTTAAACTTGCCAGGCATGTCCTTACGGGTGAAAAGGTGGCAGTAAAAGTTAT  
 TGACAAGACAAAACCTGGACACTCTAGCTACTGGTCATCTTTCCAGGAAGTGAGATGCATGAAACTAGTG  
 CAGCATCCTAACATCGTCCGCCTTTATGAAGTTATTGACACCCAGACCAAATATATCTTATTCTAGAAC  
 TTGGGGATGGAGGAGATATGTTTGATTATAATGAAACATGAGGAGGGTCTTAATGAAGACTTGGCCAA  
 GAAGTATTTTGTCTCAGATAGTTCATGCTATATCTTATTGCCATAAACTCCATGTGGTTACACAGACTTA  
 AAACCAGAGAATGTAGTCTTCTTGAAAAACAAGGTCTTGTAAGTTGACAGACTTTGGGTTACAGCAACA  
 AATTTCAACCAGGAAGAAGCTCACTACAAGCTGTGGATCTCTTGATATTCGGCTCCAGAAATCTGCT  
 TGGTGATGAGTATGATGCACCTGCAGTAGATATTTGGAGTCTGGGAGTGATCCTTTTCATGTTGGTGTGT  
 GGGCAGCCGCCCTTTCAAGAAGCCAATGACAGTGAACACTGACAATGATCATGGATTGCAAATATACAG  
 TACCATCCCATGTGTCTAAAGAGTGTAAAGACCTAATCACACGGATGCTACAGAGAGATCCCAAGAGAAG  
 GGCTTATTTAGAAGAGATTGAAAATCATCTTGGCTTCAGGGAGTGGACCCTTACCAGCTACAAAGTAT  
 AACATTTCCCTTGTGTACATAAAAAATCTCTCGGAAGAGGAGCACAACAGCATCATTACAGCGCATGGTGC  
 TTGGGGACATAGCGGATCGAGACGCCATTGTAGAAGCCCTGGAACCAACAGGTATAACCATATCACAGC  
 CACATACTTCTGCTGGTGAAGGATCCTGAGAGAAAAGCAAGAGAAAAGAAATACAGACCAGATCTGCA  
 AGCCCGAGCAATATCAAGGCCAGTTTAGGCAGTCATGGCCAACCAAAATTTGATGTACCCAGGACCTTG  
 AGGATGACCTCACGGCCACTCTTTGTCCACGCGACTGCCCTCAGTCTCCTGCTCGGGCTGTGAC  
 GTCTCTCAATGGCCACAGGAGCAAAAGCCCTGTGTGACTCAGTAAGAAAAGATGACCTCCCTGAGTTGGCT  
 GGACCAGCACTCTACGGTGCCACCCGAAGCTTAAACCCACAGCCAGTGGGCGGAAGTGTCTGTTCA  
 GGGTGAAGAAGATGAAGAGGAAGATGAGGAGGACAAGAAACCCATGTCCCTCTCAACACAAGTGGTTTT  
 GCGCCGGAAGCCATCTGTAACCAACCGCTGACATCCAGGAAGAGTGCGCCGTCGTCAACCAGATCTTT  
 GAGGAAGGGGAATCTGACGATGAGTTTACATGGATGAGAATCTGCCTCCCAAGTTGAGCAGGTTAAAGA  
 TGAATATAGCTTCTCCAGGTACAGTTCACAAACGCTACCACGGAGGAAAAGTCAAGGCGGGGCTCCAG  
 CTGCAGTAGTTCGGAGACCAGTGTATGATTCTGAAAGCCGGCGGGCTCGATAAAGATAGCGGGTTC  
 ACCTACTCTGGCACCGACGGGATAGCAGCGAGGGGCCCTTGGCAGTGAGGGGGATGGCGGGGCCAGA  
 GCAAGCCAAGCAATGCCAGTGGAGGGTGGACAAGGCCAGCCCCAGTGAGAACAAATGCTGGTGGGGCAG  
 TCCTCCAGCGGCTCGGGTGGCAACCCCAATACATCGGGTACCACAGCCGCTGTGCCGGCCCAAGC  
 AACTCCATGCAGCTGGCCTCTCGCAGTGTGGGGAGCTCGTTGAGAGCCTCAAACCTCATGAGCCTTGCC  
 TCGGCTCCAGCTTATGGGAGCACCAAGTACATTATTGATCCACAGAATGGCTTGTCAATTTCCAGTGT  
 GAAAGTCCAAGAGAAATCTACGTGGAATGTGCATTAGCTCCACAGGGAATGCAGGCGAGTCCCTGCA  
 GTGGGGCGCATAAAGTTTTCTCTGACCACATGGCAGATACCACCACTGAATTGGAACGGATAAGGAGCA  
 AGAACCTAAAAATAACGTGTCTGACCTACCTCTGTGCGAAAAGACCATCTCTGTGAACATCCAGCGGAA  
 CCTAAGGAGGGGCTGTGTGCGCATCCAGCCCAGCCAGCTGTTGCCATGTCATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC212639 protein sequence  
Red=Cloning site Green=Tags(s)

MAGFKRGYDGKIAGLYDLDKTLGRGHFAVVKLARHVFTGEKVAVKVIDKTKLDLTLATGHLFQEVRCMKLV  
 QHPNIVRLYEVIDTQTKLYLILELGDGDMFDYIMKHEEGLNEDLAKKYFAQIVHAISYCHKLHVHRDL  
 KPENVVFFEKQGLVKLTDFGFSNKFQPGKLLTSCGSLAYSAPAILLGDEYDAPAVDIWSLGVILFMLVC  
 GQPPFQEANDSETLTMIMDCKYTPSHVSKECKDLITRMLQRDPKRRAYLEEIENHPWLQGVDPSPATKY  
 NIPLVSYKNLSEEEHNSIIQRMVLGDIADRDAIVEALETNRYNHITATYFLLAERILREKQEKEIQTRSA  
 SPSNIKAQFRQSWPTKIDVPQDLEDDL TATPLSHATVPQSPARAADSVLNGHRSGKGLCDSAKKDDLPELA  
 GPALSTVPPASLKPTASGRKCLFRVEEDEEEDEEDKKPMSLSTQVVLRRKPSVTNRLTSRKSAPVNVQIF  
 EEGESDDEFDMDENLPPKLSRLKMNIASPGTVHKRYHRRKSQGRGSSCSSSETSDDDSESRRRLDKDSGF  
 TYSWHRSDSEGGPPGSEGDGGGQSKPSNASGGVDKASPSENNAGGGSPSSGGGNPTNTSGTTRRCAGPS  
 NSMQLASRSAGELVESLKLMSLCLGSQLHGSTKYIIDPQNLFSVVKVQEKSTWKMCISSGTGNAGQVPA  
 VGGIKFFSDHMADTTTELERIRSKNLKNNVLQLPLCEKTSVNIQRNPKEGLLCASSPASCCHVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6263\\_h07.zip](https://cdn.origene.com/chromatograms/mk6263_h07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

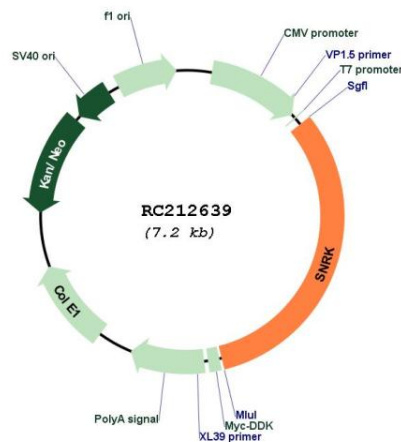
**ACCN:** NM\_001100594

**ORF Size:** 2295 bp

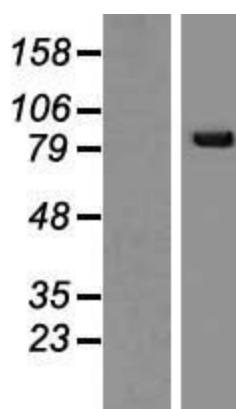
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

|                               |   |
|-------------------------------|---|
| <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>NM_001100594.1</u> , <u>NP_001094064.1</u>   |
| <b>RefSeq Size:</b>           | 5174 bp   |
| <b>RefSeq ORF:</b>            | 2298 bp   |
| <b>Locus ID:</b>              | 54861   |
| <b>UniProt ID:</b>            | <u>Q9NRH2</u>   |
| <b>Cytogenetics:</b>          | 3p22.1  |
| <b>Protein Families:</b>      | Druggable Genome, Protein Kinase  |
| <b>MW:</b>                    | 84.4 kDa  |
| <b>Gene Summary:</b>          | SNRK is a member of the sucrose nonfermenting (SNF)-related kinase family of serine/threonine kinases (Kertesz et al., 2002 [PubMed 12234663]).[supplied by OMIM, Apr 2009]   |

**Product images:**


Circular map for RC212639



Western blot validation of overexpression lysate (Cat# [LY420274]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212639 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).