

Product datasheet for **SC323405**

SNRK (NM_017719) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | SNRK (NM_017719) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | SNRK |
| Synonyms: | HSNFRK |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene ORF within SC323405 sequence for NM_017719 edited (data generated by NextGen Sequencing)

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ATGGCAGGATTTAAGCGAGGGTATGATGGAAAGATTGCTGGATTATATGATCTGGATAAA
ACCTTGGGTCGAGGCCATTTTGCCTGGTTAAACTTGCCAGGCATGTCTTTACGGGTGAA
AAGGTGGCAGTAATGGTTATTGACAAGACAAAACCTGGACACTCTAGCTACTGGTCATCTT
TTCCAGGAAGTGAGATGCATGAACTAGTGCAGCATCTAACATCGTCCGCCCTTTATGAA
GTTATTGACACCCAGACCAAATATATCTTATTCTAGAAGTTGGGGATGGAGGAGATATG
TTTGATTATATAATGAAACATGAGGAGGGTCTTAATGAAGACTTGCCCAAGAAATTTTT
GCTCAGATAGTTCATGCTATATCTTATTGCCATAAACTCCATGTGGTTCACAGAGACTTA
AAACCAGAGAATGTAGTCTTCTTTGAAAAACAAGGTCTTGTAAGTTGACAGACTTTGGG
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TCCGCTCCAGAAATCTGCTTGGTGATGAGTATGATGCACCTGCAGTAGATATTTGGAGT
CTGGGAGTGATCCTTTTCATGTTGGTGTGTGGCAGCCGCCCTTCAAGAAGCCAATGAC
AGTGAAACACTGACAATGATCATGGATTGCAAATATACAGTACCATCCCATGTGTCTAAA
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AACATTCCTTGTGTCATACAAAAATCTCTCGGAAGAGGAGCACAACAGCATCATTGAG
CGCATAGTGCTTGGGGACATAGCGGATCGAGACGCCATTGTAGAAGCCCTGGAACCAAC
AGGTATAACCATATCACAGCCACATACTTCTGCTGGCTGAAAGGATCCTGAGAGAAAAG
CAAGAGAAAGAAATACAGACCAGATCTGCAAGCCCGAGCAATATCAAGGCCCAAGTTAGG
CAGTCATGGCCAACCAAAATGATGTACCCAGGACCTTGAGGATGACCTCACGGCCACT
CCTTTGTCCCACGCGACTGTCCCTCAGTCTCCTGCTCGGGCTGCTGACAGTGTCTCAAT
GGCCACAGGAGCAAAGGCTGTGTGACTCAGCTAAGAAAGATGACCTCCCTGAGTTGGCT
GGACCAGCACTCTACGGTGCCACCCGCAAGCTTAAAACCCACAGCCAGTGGGCGGAAG
TGCTGTTCAGGGTGGAAGAAGATGAAGAGGAAGATGAGGAGGACAAGAAACCCATGTCC
CTCTCAACACAAGTGGTTTTGCGCCGGAAGCCATCTGTAACCAACCGCCTGACATCCAGG
AAGAGTGCGCCCGTCTCAACCAGATCTTTGAGGAAGGGGAATCTGACGATGAGTTTGAC
ATGGATGAGAATCTGCCTCCAAGTTGAGCAGGTTAAAGATGAATATAGCTTCTCCAGGT
ACAGTTCACAAACGCTACCACCGAGGAAAAGTCAGGGCCGGGGCTCCAGCTGCAGTAGT
TCGGAGACCAGTGATGATGATTCTGAAAGCCGGCGGGCTCGATAAAGATAGCGGGTTC
ACCTACTCCTGGCACCGAGGGATAGCAGCGAGGGGCCCTGCGAGTGAGGGGGATGGC
GGGGGCCAGAGCAAGCCAAGCAATGCCAGTGGAGGGTGGACAAGGCCAGCCCCAGTGAG
AACAATGCTGGTGGGGGAGTCCCTCCAGCGGCTCGGGTGGCAACCCCAACCAATACATCG
GGTACCACACGCCGCTGTGCCGGCCCCAGCAACTCCATGCAGCTGGCCTCTCGCAGTGCT
GGGGAGCTCGTTGAGAGCCTCAAATCATGAGCCTCTGCCTCGGCTCCCAGCTTCATGGG
AGCACCAAGTACATTATTGATCCACAGAATGGCTTGTCTTTCCAGTGTGAAAGTCCAA
GAGAAATCTACGTGAAAATGTGCATTAGCTCCACAGGGAATGCAGGGCAGGTCCCTGCA
GTGGGCGGCATAAAGTTTTCTCTGACCACATGGCAGATACCACCACTGAATTGGAACGG
ATAAAGAGCAAGAACCTGAAAAATAACGTGCTGCAGCTACCTCTGTGCGAAAAGACCATC
TCTGTGAACATCCAGCGGAACCTAAGGAGGGGCTGCTGTGCGCATCCAGCCCAGCCAGC
TGTTGCCATGTCATCTGA
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Clone variation with respect to NM_017719.4
134 a=>t;135 a=>g;906 g=>a

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| 5' Read Nucleotide Sequence: | >OriGene 5' read for mutant NM_017719 unedited CCCGCCGTTTGTAGCAATGGGCGGTAGGCGTGTACGGAGTGGAGGTCTATATAAGCAGAGCTCGTTTAGTG AACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACCAGCGACATTGAAAAT GAATTTTTTGTATTACCCAGATATTCTTATATGAGAAGATCTATTTTAAACAGTCTAAATATTTTTTCTT CTGTTGGACCAGCATGGCAGGATTAAGCGAGGGTATGATGGAAAGATTGCTGGATTATATGATCTGGAT AAAACCTTGGGTCGAGGCCATTTTTGCCGTGGTAAACTTGCCAGGCATGCTTTACGGGGTAAAAGGTG TGTCGTGTAATGGTTATTGACAAGACACAAAACCTGGACACTTCTACCTACTTGTTCATCCTTTTCCAGGA GTGGAGAAGGCTGGGAAACTATTGCCACCATTCCCTAACTCCTTCCGCCTTTTTAAATTTATTGACCCCC GAACCAACCTATTTCTAATTCCAAAAACCTGGGGAGGGAGGAAATTTTTTTTTGTTTTTAAATGGAACC ATGGGAAAGGCTAATAAAAAATTGGGCAAAAAAGTTTTTTGCCAAAAAGCCAGGCCTAACCCAAAGC GCCTAAACCCCGTGGTTTCACAAAACCTAAACCCAGAAAAGTGTCTCTTTTTTAAAAAAGGGTTTTGAA ATTTACAAAATTTGGTTCCCCCATTTTCCCGGGGAAAACCCAAAAACCTGGGACTCTTTGATTTC CCCCAAAATTTGCTGGGAGAAAATGAATGCCCCCGAAATTTGAGTCTGGAGTGTGCCCTTCTGTGGT GGGAGCACCTTTGAGACCGAGCGGAAACGCGAGATATTGTGTGCATCAGGCCCCCGCTGTGTAGTGT GAGACCTCCCGGCCTCCCAAT |
| Kinase Domain Sequence: | >SC323405 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation CKATGMGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTC AGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACCAGCGACATTGAAAATGAATTTT TTGTATTACCCAGATATTCTTATATGAGAAGATCTATTTTAAACAGTCTAAATATTTTTTCTTCTGTGG ACCAGCATGGCAGGATTTAAGCGAGGGTATGATGGAAAGATTGCT |
| Restriction Sites: | Please inquire |
| ACCN: | NM_017719 |
| Insert Size: | 6220 bp |
| OTI Disclaimer: | 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). |
| OTI Annotation: | This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548. |
| 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: | <ol style="list-style-type: none"> 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_017719.3 , NP_060189.2 |

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| RefSeq Size: | 5118 bp |
| RefSeq ORF: | 2298 bp |
| Locus ID: | 54861 |
| UniProt ID: | Q9NRH2 |
| Cytogenetics: | 3p22.1 |
| Domains: | pkinase, TyrKc, S_TKc |
| Protein Families: | Druggable Genome, Protein Kinase |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same isoform (1).</p> |