

Product datasheet for **SC117994**

VRK1 (NM_003384) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VRK1 (NM_003384) Human Untagged Clone
Tag:	Tag Free
Symbol:	VRK1
Synonyms:	PCH1; PCH1A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_003384 edited
ATGCCTCGTGAAAAGCAGCTCAAGCTGGAAGACAGAGCTCTGCAAAGACATCTTGCA
GAACAATTTGCAGTTGGAGAGATAATAACTGACATGGCAAAAAAGGAATGGAAAGTAGGA
TTACCCATTGGCCAAGGAGGCTTTGGCTGTATATATCTTGCTGATATGAATCTTCAGAG
TCAGTTGGCAGTGATGCACCTTGTGTTGTAAAAGTGGAAACCCAGTGACAATGGACCTCTT
TTTACTGAATTAAGTTCTACCAACGAGCTGCAAAACCAGAGCAAATTCAGAAATGGATT
CGTACCCGTAAGCTGAAGTACCTGGGTGTTCTAAGTATTGGGGTCTGGTCTACATGAC
AAAAATGGAAAAAGTTACAGGTTTATGATAATGGATCGCTTTGGGAGTGACCTTCAGAAA
ATATATGAAGCAAATGCCAAAAGTTTTCTCGGAAAAGTCTTGACGCTAAGCTTAAGA
ATTCTGGATATTCTGGAATATATTCACGAGCATGAGTATGTGCATGGAGATATCAAGGCC
TCAAATCTTCTTGAAGTACAAGAATCCTGACCAGGTGACTTGGTAGATTATGGCCTT
GCTTATCGGTACTGCCAGAAAGGAGTTCATAAAGAATACAAGAAGACCCAAAAGATGT
CAGCATGGCACTATTGAATTCACGAGCATCGATGCACACAATGGCGTGGCCCATCAAGA
CGTGGTGAATTTGGAAATACTTGGTTATTGCATGATCCAATGGCTTACTGGCCATCTTCT
TGGGAGGATAATTTGAAAGATCCTAAATATGTTAGAGATTCCAAAATTAGATACAGAGAA
AATATTGCAAGTTTGTGGACAAATGTTTTCTGAGAAAAACAACCAGGTGAAATTTGCC
AAATACATGGAACAGTGAAATTAAGACTACTGAAAAACCTCTTTATGAAAATTTA
CGTGACATTTCTTTGCAAGGACTAAAAGCTATAGGAAGTAAGGATGATGGCAAATTTGGAC
CTCAGTGTGTGGAGAATGGAGTTTGAAGCAAAAACAATAACAAGAAGCGAAAGAAA
GAAATTGAAGAAAAGCAAGGAACCTGGTGTGAAGATACGGAATGGTCAAACACACAGACA
GAGGAGGCCATACAGACCCGTTCAAGAACCAGAAAGAGAGTCCAGAAGTAA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003384 unedited GTAATACGACTCACTATAGGGCGGCCGNGAATTCGCACGAGGCGGGAAGTTCGTA GCGAGAACGCGACGGGTCTGCGGCTTAGGTGAAAATGCCTCGTGTAAAAGCAGCTCAAGCT GGAAGACAGAGCTCTGCAAAGAGACATCTTGCAGAACAAATTTGCAGTTGGAGAGATAATA ACTGACATGGCAAAAAGGAATGGAAAGTAGGATTACCCATTGGCCAAGGAGGCTTTGGC TGTATATATCTTGCTGATATGAATCTTCAGAGTCAGTTGGCAGTGATGCACCTTGTGTT GTAAAAGTGGAAACCCAGTGACAATGGACCTCTTTTACTGAATTAAGTTCTACCAACGA GCTGCAAAACCAGAGCAAATTCAGAAATGGATTGTTACCCGTAAGCTGAAGTACCTGGGT GTTCTAAGTATTGGGGTCTGGTCTACATGACAAAAATGGAAAAAGTTACAGGTTTATG ATAATGGATCGCTTTGGGAGTGACCTTCAGAAAATATATGAAGCAAATGCCAAAAGGTTT TCTCGAAAACGTCTTTCAGCTAAGCTTAAGAATTCTGGATATTCTGGAATATATTCAC GAGCATGAGTATGTGCATGGAGATATCAAGGCCTCAAATCTTCTCTGAAGTACAAGAAT CCTGACCAGGTACTTGGTAGATTATGGCCTTGCTTATCGGTAAGTACCCAGAAGGAGTT CATAAAGAATACANAGAAGACCCANAGATGTCACGATGGCACTATTGAATTCACGAGCA TCGATGCACACAATGGCGTGGCCCATCAAGACGTGGGTGATTGGAAATACTTGGNTATT GCATGATCCAATGGCTTACTGGCCATCTTCTTGGNGAGATNNATTGAAAAGATCCTAAT ATGTTAGAGATCCAAATTAGATACAGAAATATATTGCAGNTTATGGACAATGTTTNC T G</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003384 unedited TGCTACAACAAAAGAGATGATTTTTAAGCTTTCATTTCCCTAAAGTGAGGACTTTGTCA AACATTTTTATCCACTCTGAGAAAGTACAATGATTAGAAAAGTGCCTGTCATAATAATTT TCATATATATGTACTCCAAAACATCACAACACACGGCTTTGGGATAACTTAAGGAGTAT AACCTGAAGATTTCAAATTTCAAAATTAGCCTTTAATGAATTGTACAAAATATTTTTA TAAAAAAGTTTATGTTTTCTGAACACATGAGTATTTAATCATTACTCCACCTCGCAAG ACTCACAGGAAAATAAACAGTTCAAATAGAAAAGGAGAAAAAGTCAAAAGAAAACAAA GAAAAGGAAATCTGGTTCACAGCATCTGAATTACTTCTGGACTCTCTTTCTGGTTCTTGA ACGGGTCTGTATGGCCTCCTCTGTCTGTGTGTTGACCATTCCGTATCTTCAACACCAGG TTCCTTGCCTTCTCAATTTCTTCTTTCGCTTCTTGTATTGTTTTGCTTTCAAACC TTCATTCTCCACAACACTGAGGTCCAATTTGCCATCATCCTTACTTCTATAGCTTTTAG TCCTTTGCAAAAAG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_003384
Insert Size:	1630 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).
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_003384.2](#), [NP_003375.1](#)

RefSeq Size: 1720 bp

RefSeq ORF: 1191 bp

Locus ID: 7443

UniProt ID: [Q99986](#)

Cytogenetics: 14q32.2

Domains: pkinase, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene encodes a member of the vaccinia-related kinase (VRK) family of serine/threonine protein kinases. This gene is widely expressed in human tissues and has increased expression in actively dividing cells, such as those in testis, thymus, fetal liver, and carcinomas. Its protein localizes to the nucleus and has been shown to promote the stability and nuclear accumulation of a transcriptionally active p53 molecule and, in vitro, to phosphorylate Thr18 of p53 and reduce p53 ubiquitination. This gene, therefore, may regulate cell proliferation. This protein also phosphorylates histone, casein, and the transcription factors ATF2 (activating transcription factor 2) and c-JUN. [provided by RefSeq, Jul 2008]