

Product datasheet for **SC102729**

VRK3 (AK074461) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VRK3 (AK074461) Human Untagged Clone
Tag:	Tag Free
Symbol:	VRK3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK074461, the custom clone sequence may differ by one or more nucleotides

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CACTCTGCCTAGGACGCACCTAATTGCCAGCCACAGGCTATGACAGTACATGGGAACGTGCCACCAGGA
GGTTCCTCAGAGGCTCAGTGCTCGGGGCTGTTATTGGGGAGTAGTCATGTGGCCCCCTCTGTCTGACATG
TATCCGCATCCCAGGTTCCCCAGAGGAAAGCAGGTGTTGCACAGAAACCACAGTGATTGCACAAGCAGTT
TAGGCTCAGCGAGCCCCACTCACTTAGGGGATTCTGGGAGCCCTCCCGAATCCAGGGTCCAGACCTTG
CCAGGAGAGCCGTCTCAGGCCTGCTGCATTAGCCCTTCTGCATGGCTGGATAGTGACAGAGAGAAAGAG
GAAGAAGAAGCTTATTTAAACTAGGAAGCAGCAGGTCTGAGAGCCAAGAGTGCCTTGACCTTGTGG
AACCAGGGCACCAGAGCCGCTTCTATTGCTGGGAAGTTTGGGGATGATGACCCTGACCTCCGCGTGGT
TATAACCTCACTCCCTTGTGTTTCCCCACAGCTGCACCCACCTCCACCCTCACCTGTGACTCAGGACC
ACAGAAGCAAAAGTTCTCACTCAAAGTGGTAAGTGACCCTGCAGGTGGGGGCGAGCTTGGAGGGGAGGGA
CTTTCACAAACACATCCTTGACTTCTGAGCCCGTCTGTCAGCTGGGAGAGCTCGGCCGGGGCCAGGTTT
CCCACCTGCAAGGAGTATTAAGACCGTGGGCGGGCAGGCGCCAGTTTCCATCATCCAGGGTGTGG
AAACCCACAGTTGGATCCACCAAGTCTGGCTCTGATGCTTCCCTGCTGTGTGACCTGGGCAAGCCATC
CCCCTCAGAGCTCAGTTTCTCATCTGTGAAATGGAGCCACTAATACCCACAGGGTGTGGCCCATCTGCC
CCCTACCACCGGCTCGCAGCGTCTCGTATCGAGCACCTACTGTGTATCACCGTCTGGGTGTGGGGTTC
CAAAAGAGAACCCAGCAGATGGGGTCCCTGTGCTGAGGATTCACTGAAATCACACATCGGGTGCCGAGCA
TGAGTCTCAGCAGACAGGACATGTGCACTCGAGGTTGGGGCTAAAAGGAAACAAATAGAGAAAGGGAGAG
TGGCCACGAGGGTGAATCACGCCTTCCACACAGAGGAGGTGCCTAACAGAAGGGCATCGTGGTGGTTCAT
AGCCCCGCCATCATCCCTGGGTGCTGGGATTACAGGTGACTCTTATTTTCTTTTGTGTTATCAGAATTGT
CTCACACCCAGAAAACCAGGGACAGTGGGTGAGTTGCCCTCCCTCCGCCCTAGGTGGAGGCCATGAGA
GTGGGTGAGAGCGTGGGCTGTGGAGCCGGGCTCACTAGTGGTGGGTAGCACCTGCTTTGAGAGCCTGGCA
TTGCCTGAGCCGGGCTGTGTTTCATAAGCACTGCTTCATTGAATCCTCCAGTAGGGCAGCTACCGTGTC
CCATTTAACACTTCTCTGCATGGTTCAGGTGTGTCTGGCAGAGTAGGCACCCCATCAACCTGAGCTGTTT
CTGTTATTACTACTGTAATTATGCTCATCATCCTAGAAATACAGCCTTGCTCTGTGTTCTGCATCTGAC
CTCATCAACATTTCTGAGGCTCAAACTTGGTGATGATGAGTTGGCCCCAGGCCAGCCCTGGAGAGGC
TCCCAGTCTGGCGGGAGCCATGTCATGTCCAGTCCCATCGGGAAGAGGGGTGGGCTGGGAGGGGAGCAC
AGGGCACTGGGCAACCAGAAGACATTCACCCTCCCCATCCACTGGGAAGGCAGCTCTGTTCTGAAGCAT
TCGAAAGGTGAGGGGCTGAATGCCAGTGGTGTTCATCCATCCATTTATTCATTTATTCACCAAGCCTTT
CCTGCAACCTCCTGTGAAGTGAAGTGTGGGACATCTGCAGAGATGGGTGAGACCAATTCTGCCCTGA
AGGAGCTGCCCCCTTTGGGGAGTGGGGCAGGCATGAATACCCACATGAGATTGCTCAGGGCCTGCATGG
CTGTGCCACGTCGCTCGCGTCAGTCACTATGGGCTTACCAGCATCGTGGGGAGGACTCCAGGACGCAA
AAAAAAAAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for AK074461 unedited CAGAAATTTTGTAAACGACTCACTATAGGGCGGCNCGGATTTCGGCACGAGAACCTGGGT CACCCCTGGGATGTGGCCTTGGATGAAGTCACTCTGCCTAGGACGCACCTAATTGCCCAGC CACAGGCTGTGACAGTACATGGGAAGTCCACCAGGAAGTTCCTCAGAGGCTCAGTGCT CGGGGCTGTTATTGGGGAGTAGTCATGTGGCCCCCTCTGTCTGACATGTATCCGCATCCC AGGTTCCCCAGAGGAAAGCAGGTGTTGCACAGAAACCACAGTGATTGCACAAGCAGTTTA GGCTCAGCGAGCCCCACTCACTTAGGGGATTCTGGGAGCCCTCCCGAATCCAGGGTCCC AGACCTTGCCAGGAGAGCCGTCTCAGGCCTGCTGCATTAGCCCTTCCTGCATGGCTGGAT AGTGACAGAGAGAAAGAGGAAGAAGAAGCTTATTTAAACTAGGAAGCAGCAAGTCGTGA GAGCCAAGAGTGCGCTTGACCTTGTTGGAACCAGGGCACCAGAGCCGCTTCTCATTGCTG GGAAGTTTGGGGATGATGACCCTGACCTTCCGCGTGGTTATAACCTCACTCCCTTGTTTG TTCCCCCAGAGTGCACCCACCTCCACCCTCACCTGTGACTCANGACCACAGAAGCAAAA GTTCTCACTCAAAGTGGATGCCAAGGATGGGCGCTTGTCAATGAGCAGAACTTCTTCCA GCGGGCCGCCAAGCCTCTGCAAGGTACCTGACAGGGAAGTGNNGCAGGANGGGAAAGTGA GGGGGGGCCCACTTGGTCACAGCACTTGACTTCTACCTGCAGCATGANAAGGGTGGGCTA NATTAAGGGCCCACTTGCTCCATCTGTGCCATACCTGACTCTGA
Restriction Sites:	NotI-NotI
ACCN:	AK074461
Insert Size:	2600 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:	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:	AK074461.1
RefSeq Size:	2110 bp
RefSeq ORF:	2110 bp
Locus ID:	51231
Cytogenetics:	19q13.33
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. In both human and mouse, this gene has substitutions at several residues within the ATP binding motifs that in other kinases have been shown to be required for catalysis. In vitro assays indicate the protein lacks phosphorylation activity. The protein, however, likely retains its substrate binding capability. This gene is widely expressed in human tissues and its protein localizes to the nucleus. Alternative splicing results in multiple transcripts encoding different isoforms. [provided by RefSeq, Jul 2008]