

## Product datasheet for MC207443

### Vrk1 (NM\_001029844) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vrk1 (NM_001029844) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vrk1
Synonyms:	51PK
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC207443 representing NM_001029844 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCCCGTGTAAAAGCAGCTCAGGCTGGAAGACCCGGACCTGCGAAGAGGCGCCTCGCAGAGCAGTTT  
CCGCTGGAGAGGTCCTAACCGACATGTCTAGGAAGGAGTGAAACTAGGATTGCCATTGGCCAAGGTGG  
CTTTGGCTGCATCTATCTGGCGGACACAAATCTTCCAAACCGGTTGGCAGTGACGCGCCCTGTGTGTG  
AAAGTGAACCCAGTGACAATGGACCTCTTTTCACGGAATTAAGTTCTACCAGAGGGCTGCTAAACCAG  
AGCAAATTCAGAAATGGATTTCGTACACATAAAATTGAAGTACCTTGGTGTCTTAAGTATTGGGGATCTGG  
TCTACATGATAAAAAATGGAAAAAGTTACAGGTTTATGATAATGGACCGCTTTGGGAGTGACCTTCAGAAA  
ATATATGAAGCAAATGCCAAAAGGTTTTCTCGGAAAACGTATTGCAGCTAAGCTTAAGAATTCTGGATA  
TCCTGGAGTACATCCATGAGCATGAGTACGTGCACGGGGACATCAAGGCCTCCAACCTGCTCCTGAGTCA  
CAAGAACCCTGACCAGGTATATTTGGTAGACTATGGCCTTGCTTATCGGTACTGCCAGATGGAGTTCAT  
AAAGAGTACAAGGAAGATCCCAAAGGTGCCATGACGGCACCCCTGGAGTTCACCAGCATCGACGCTCACA  
AAGGCGTGGCCCATCAAGAGCTGGTGATTTGGAATACTTGGTTATTGCATGATCCAGTGGCTCAGCGG  
CTGTCTTCTTGGGAAGATAACTTGAAAGATCCTAACTACGTTAGGGATTCCAAAATTAGATACAGAGAC  
AACGTCGCAGCTTTGATGGAGAAATGCTTTCCTGAGAAAATAAGCCAGGTGAGATCGCTAAGTACATGG  
AGTCTGTGAAACTACTGGAATACACCGAAAAACCTCTCTATCAAACCTACGTGATATCCTTTTACAAGG  
ACTAAAAGCTATAGGAAGTAAAGACGACGGCAAACCTGGATTTTAGTGCTGTGGAGAACGGAAGTGTGAAG  
ACAAGACCAGCCTCAAAGAAGCGGAAGAAAGAAGCAGAAGAAAGCGCGGTGTGCGCTGTGGAGGACATGG  
AGTGCTCAGACACACAGGTGCAAGAGGCCGCACAGACCCGTTACGAACCAGAAAGAAAGCCAGAAGTA  
A

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001029844
<b>Insert Size:</b>	1191 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>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_001029844.1</a></u> , <u><a href="#">NP_001025015.1</a></u>
<b>RefSeq Size:</b>	3664 bp
<b>RefSeq ORF:</b>	1191 bp
<b>Locus ID:</b>	22367
<b>UniProt ID:</b>	<u><a href="#">Q80X41</a></u>
<b>Cytogenetics:</b>	12 E- F1
<b>Gene Summary:</b>	<p>Serine/threonine kinase involved in Golgi disassembly during the cell cycle: following phosphorylation by PLK3 during mitosis, required to induce Golgi fragmentation. Acts by mediating phosphorylation of downstream target protein. Phosphorylates 'Thr-18' of p53/TP53 and may thereby prevent the interaction between p53/TP53 and MDM2. Phosphorylates casein and histone H3. Phosphorylates BANF1: disrupts its ability to bind DNA, reduces its binding to LEM domain-containing proteins and causes its relocalization from the nucleus to the cytoplasm. Phosphorylates ATF2 which activates its transcriptional activity (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) lacks two consecutive exons in the 3' coding region, but maintains the reading frame, compared to variant 1. The resulting isoform (c) lacks an internal segment in the C-terminal region, compared to isoform a.</p>