

Product datasheet for **MC209644**

Vrk1 (NM_001029843) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Vrk1 (NM_001029843) 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: >MC209644 representing NM_001029843
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCCGTGTAAAAGCAGCTCAGGCTGGAAGACCCGGACCTGCGAAGAGGCGCCTCGCAGAGCAGTTT
CCGCTGGAGAGGTCCTAACCGACATGTCTAGGAAGGAGTGAAACTAGGATTGCCATTGGCCAAGGTGG
CTTTGGCTGCATCTATCTGGCGGACACAAATCTTCCAAACCGGTTGGCAGTGACGCGCCCTGTGTTGTG
AAAGTGAACCCAGTGACAATGGACCTCTTTTCACGGAATTAAGTTCTACCAGAGGGCTGCTAAACCAG
AGCAAATTCAGAAATGGATTTCGTACACATAAAATTGAAGTACCTTGGTGTCTTAAGTATTGGGGATCTGG
TCTACATGATAAAAAATGGAAAAAGTTACAGGTTTATGATAATGGACCGCTTTGGGAGTGACCTTCAGAAA
ATATATGAAGCAAATGCCAAAAGGTTTTCTCGGAAAACGTATTGCAGCTAAGCTTAAGAATTCTGGATA
TCCTGGAGTACATCCATGAGCATGAGTACGTGCACGGGGACATCAAGGCCTCCAACCTGCCTCCTGAGTCA
CAAGAACCCTGACCAGGTATATTTGGTAGACTATGGCCTTGCTTATCGGTACTGCCAGATGGAGTTCAT
AAAGAGTACAAGGAAGATCCCAAAGGTGCCATGACGGCACCCCTGGAGTTCACCAGCATCGACGCTCACA
AAGGCGTGGCCCATCAAGAGCTGGTGATTTGGAATACTTGGTTATTGCATGATCCAGTGGCTCAGCGG
CTGTCTTCTTGGGAAGATAACTTGAAAGATCCTAACTACGTTAGGGATTCCAAAATTAGATACAGAGAC
AACGTCGCAGCTTTGATGGAGAAATGCTTTCCTGAGAAAATAAGCCAGGTGAGATCGCTAAGTACATGG
AGTCTGTGAAACTACTGGAATACACCGAAAAACCTCTCTATCAAACCTACGTGATATCCTTTTACAAGG
ACTAAAAGCTATAGGAAGTAAAGACGACGGCAAACCTGGATTTTAGTGCTGTGGAGAACGGAAGTGTGAAG
ACAAGACCAGCCTCAAAGAAGCGGAAGAAAGAAGCAGAAGAAAGCGCGGTGTGCGCTGTGGAGGACATGG
AGTGCTCAGACACACAGGTGCAAGAGGCCGCACAGACCCGTTCCAGGAGGCAGCAGCATTGGGATTGGA
ACAAGACATGCTAAGGCTAGACCGTAGGGGTTACGAACCAGAAAGAAAGCCAGAAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001029843
Insert Size:	1251 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:	<u>NM_001029843.1</u> , <u>NP_001025014.1</u>
RefSeq Size:	3724 bp
RefSeq ORF:	1251 bp
Locus ID:	22367
UniProt ID:	<u>Q80X41</u>
Cytogenetics:	12 E- F1
Gene Summary:	<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 (2) lacks an in-frame exon in the 3' coding region, compared to variant 1. The resulting isoform (b) lacks an internal segment, compared to isoform a.</p>