

## Product datasheet for **SC335809**

### VRK2 (NM\_001288836) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VRK2 (NM_001288836) Human Untagged Clone
Tag:	Tag Free
Symbol:	VRK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335809 representing NM_001288836. Blue=Insert sequence Red=Cloning site Green=Tag(s)

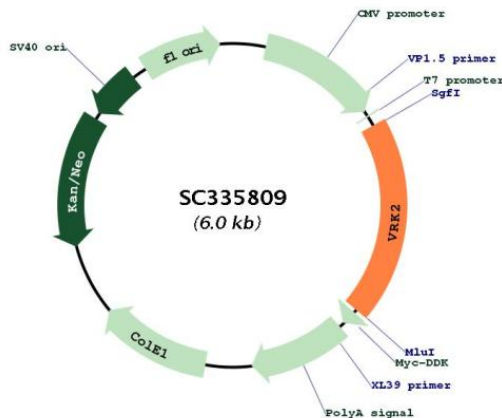
```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTAATGAAAAGACTAGGAATAGATTTACAGAAGATCTCAGGCCAGAATGGTACCTTTAAAAAGTCA
ACTGTCCTGCAATTAGGTATCCGAATGTTGGATGTACTGGAATATATACATGAAAATGAATATGTTTCAT
GGTGATATAAAAGCAGCAAACTACTTTTGGGTTACAAAAATCCAGACCAGGTTTATCTTGACAGATTAT
GGACTTTCCTACAGATATTGTCCAATGGGAACCACAAACAGTATCAGGAAAATCCTAGAAAAGGCCAT
AATGGGACAATAGAGTTTACCAGCTTGGATGCCACAAGGGAGTAGCCTTGTCAGACGAAGTGACGTT
GAGATCCTCGGCTACTGCATGCTGCGGTGGTTGTGTGGGAAACTCCCTGGGAACAGAACCTGAAGGAC
CCTGTGGCTGTGCAGACTGCTAAAAACAACTGTGTGGACGAGCTCCCCCAGTCAGTGCTTAAATGGGCT
CCTTCTGGAAGCAGTTGCTGTGAAATAGCCCAATTTTTGGTATGTGCTCATAGTTTAGCATATGATGAA
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TCCACAAAAGGACAGAGTATAAATGTCCATACTCCAAACAGTCAAAAAGTTGATTCACAAAAGGCTGCA
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TCCTGTGCAACATGGAAGTGCAGAAAGAGGAGAACTGATTGGATTGATGAACAATGAAGCAGCTCAG
GAAAGCACAAGGAGAAGACAGAAATATCAAGAGTCTCAAGAACCTTTGAATGAAGTAAACAGTTTCCCA
CAAAAATCAGCTATACACAATCCCAAACCTATTTTATGAGCCTCATCAAGATTTTACCAGTCCAGAT
ATATTCAGAAGTCAAGATCTCCATCTTGGTATAAATACACTCCACAGTCAGCAGGGGATCACAGAC
TTAGAAAGTTCAACTGGACTTTGGCCTACAATTTCCAGTTTACTCTTAGTGAAGAGACAAACGCAGAT
GTTTATTATTATCGCATCATACCTGTCTTTTGTAGTATTCTTGCTTATTTTTTCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCCGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001288836

**Insert Size:** 1173 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:** [NM\\_001288836.1](#)

**RefSeq Size:** 2076 bp

**RefSeq ORF:** 1173 bp

**Locus ID:** 7444

**UniProt ID:** [Q86Y07](#)

**Cytogenetics:** 2p16.1

**Protein Families:** Druggable Genome, Protein Kinase, Transmembrane

**MW:** 44.4 kDa

**Gene Summary:** This gene encodes a member of the vaccinia-related kinase (VRK) family of serine/threonine protein kinases. The encoded protein acts as an effector of signaling pathways that regulate apoptosis and tumor cell growth. Variants in this gene have been associated with schizophrenia. Alternative splicing results in multiple transcript variants that differ in their subcellular localization and biological activity. [provided by RefSeq, Jan 2014]  
Transcript Variant: This variant (6) uses an alternate splice site and contains an alternate exon in the 5' region, compared to variant 1. It initiates translation at a downstream in-frame start codon. The encoded isoform (4) has a shorter N-terminus than isoform 1. Variants 6 and 7 encode the same isoform (4).