

Product datasheet for **SC335849**

VRK2 (NM_001288838) Human Untagged Clone

Product data:

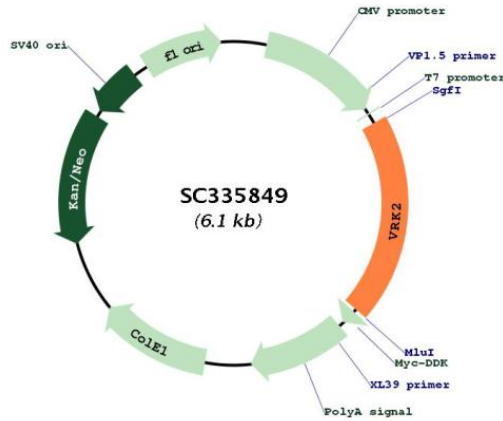
Product Type: Expression Plasmids
Product Name: VRK2 (NM_001288838) Human Untagged Clone
Tag: Tag Free
Symbol: VRK2
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC335849 representing NM_001288838.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCCACCAAAAAGAAATGAAAAATACAAACTTCTATTCCATTTCCAGAAGGCAAGGTTCTGGATGAT
ATGGAAGGCAATCAGTGGTACTGGGCAAGAAGATTGGCTCTGGAGGATTTGGATTGATATATTTAGCT
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TTATTTTCAGAACTTAAATTTTATCAGAGAGTTGCAAAAAAGACTGTATCAAAAAGTGGATAGAACGC
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AGTGACGTTGAGATCCTCGGCTACTGCATGCTGCGGTGGTTGTGTGGGAACTTCCCTGGGAACAGAAC
CTGAAGGACCCTGTGGCTGTGCAGACTGCTAAAACAAATCTGTTGGACGAGCTCCCCAGTCAGTGCTT
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AAGGCTGCAACAAAGCAAGTCAACAAGGCACACATAGGTTAATCGAAAAAAGTCCACAGTGAGAGA
AGCGCTGAGTCTGTGCAACATGGAAGTGCAGAAAGAGGAGAAACTGATTGGATTGATGAACAATGAA
GCAGCTCAGTTTAGGTAG
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN: NM_001288838

Insert Size: 1191 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_001288838.1](#)

RefSeq Size: 2430 bp

RefSeq ORF: 1191 bp

Locus ID: 7444

UniProt ID: [Q86Y07](#)

Cytogenetics: 2p16.1

Protein Families: Druggable Genome, Protein Kinase, Transmembrane

MW: 45 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 (9) represents use of an alternate upstream promoter, differs in the 5' UTR, and contains an alternate exon in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (3) has a shorter and distinct C-terminus, compared to isoform 1. Variants 5 and 9 encode the same isoform (3, also known as VRK2B).