

Product datasheet for **SC325130**

VRK2 (NM_001130482) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | VRK2 (NM_001130482) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | VRK2 |
| Vector: | <u>pCMV6 series</u> |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_001130482, the custom clone sequence may differ by one or more nucleotides ATGGAAGGCAATCAGTGGTACTGGGCAAGAAGATTGGCTCTGGAGGATTTGGATTGATA TATTTAGCTTTCCCCACAAATAAACAGAGAAAGATGCAAGACATGTAGTAAAAGTGAA TATCAAGAAAATGGCCCGTTATTTTCAGAACTTAAATTTTATCAGAGAGTTGCAAAAAA GACTGTATCAAAAAGTGGATAGAACGCAAACTTGAATTTTATGGAATTCCTCTGTTT TATGGATCTGGTCTGACTGAATTCAGGGAAGAAGTTACAGATTTATGGTAATGGAAAGA CTAGGAATAGATTTACAGAAGATCTCAGGCCAGAATGGTACCTTTAAAAAGTCAACTGTC CTGCAATTAGGTATCCGAATGTTGGATGTACTGGAATATATACATGAAAATGAATATGTT CATGGTGATATAAAAGCAGCAAATCTACTTTTGGGTTACAAAAATCCAGACCAGGTTTAT CTTGACAGATTATGGACTTTCCTACAGATATTGTCCCAATGGGAACCAACAACAGTATCAG GAAAATCTAGAAAAGGCCATAATGGGACAATAGAGTTTACCAGCTTGGATGCCACAAG GGAGTAGCCTTGTCCAGACGAAGTGACGTTGAGATCCTCGGCTACTGCATGCTGCGGTGG TTGTGTGGGAACTTCCCTGGGAACAGAACCTGAAGGACCCTGTGGCTGTGCAGACTGCT AAAACAAATCTGTTGGACGAGCTCCCCAGTCAGTGCTTAAATGGGCTCCTTCTGGAAGC AGTTGCTGTGAAATAGCCCAATTTTGGTATGTGCTCATAGTTTAGCATATGATGAAAAG CCAAACTATCAAGCCCTCAAGAAAATTTGAACCCTCATGGAATACCTTTAGGACCACTG GACTTTTCCACAAAAGGACAGAGTATAAATGTCCATACTCAAACAGTCAAAAAGTTGAT TCACAAAAGGCTGCAACAAGCAAGTCAACAAGGCACACAATAGGTTAATCGAAAAAAA GTCCACAGTGAGAGAAGCGCTGAGTCTGTGCAACATGGAAAAGTGCAGAAAGAGGAGAAA CTGATTGGATTGATGAACAATGAAGCAGCTCAGGAAAAGCACAAGGAGAAGACAGAAATAT CAAGAGTCTCAAGAACCTTTGAATGAAGTAAACAGTTTCCACAAAAAATCAGCTATACA CAATCCCAAACCTATTTTATGAGCCTCATCAAGATTTTACCAGTCCAGATATATTCAAG AAGTCAAGATCTCCATCTTGGTATAAATACACTCCACAGTCAGCACGGGGATCACAGAC TTAGAAAAGTTCAACTGGACTTTGGCCTACAATTTCCAGTTTACTCTTAGTGAAGAGACA AACGCAGATGTTTATTATTATCGCATCATCATACTGTCTTTTATGTTAGTATTCTT GCTTTATTTTTCTC |
| Restriction Sites: | Please inquire |
| ACCN: | NM_001130482 |
| Insert Size: | 1885 bp |



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| 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). |
| OTI Annotation: | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| 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_001130482.1</u> , <u>NP_001123954.1</u> |
| RefSeq Size: | 1885 bp |
| RefSeq ORF: | 1458 bp |
| Locus ID: | 7444 |
| UniProt ID: | <u>Q86Y07</u> |
| Cytogenetics: | 2p16.1 |
| Protein Families: | Druggable Genome, Protein Kinase, Transmembrane |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus than isoform 1.</p> |