

Product datasheet for **RG216625**

VRK3 (NM_001025778) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	VRK3
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PSI00010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG216625 representing NM_001025778
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGATCTCCTTCTGTCCAGACTGTGGCAAAGTATCCAAGCGGCATTCAAATTCTGCCCTACTGTGAA
ATTCTTGCCTGTAGAGGAGCATGTAGGGTCCAGACCTTTGTCAATCCACATGTGTCATCCTTCCAAGG
CTCCGGGAGCAGACCCCAACCCCAAAAGCAGCCCTCAGAAGACCAGGAAGAGCCCTCAGGTGACCAGG
GGTAGCCCTCAGAAGACCAGCTGTAGCCCTCAGAAGACCAGGCAGAGCCCTCAGACGCTGAAGCGGAGCC
GAGTGACCACCTCACTTGAAGCTTTGCCACAGGGACAGTGCTGACAGACAAGAGTGGGCGACAGTGAA
GCTGAAGTCCTTCCAGACCAGGACAACCAGGGCATTCTCTATGAAGCTGCACCCACCTCCACCTCACC
TGTGACTCAGGACCACAGAAGCAAAAGTTCTCACTCAAAGTGGATGCCAAGGATGGGCGCTTGTTCATG
AGCAGAATTCTTCCAGCGGGCCGCAAGCCTCTGCAAGTCAACAAGTGAAGAAGCTGTACTCGACCCC
ACTGCTGGCCATCCCTACCTGCATGGGTTTCGGTGTTACACAGGACAAATACAGGTTCTTGGTGTTACCC
AGCCTGGGAGGAGCCTTCAGTCGGCCCTGGATGTCAGCCCAAGCATGTGCTGTCAGAGAGGTCTGTGC
TGCAGGTGGCTGCCGGCTGCTGGATGCCCTGGAGTTCCTCCATGAGAATGAGTATGTTTCATGGAAATGT
GACAGCTGAAAATATCTTTGTGGATCCAGAGGACCAGAGTCAGGTGACTTTGGCAGGCTATGGCTTCGCC
TTCCGCTATTGCCAAGTGGCAACACGTGGCTACGTGGAAGGCAGCAGGAGCCCTCACGAGGGGGACC
TTGAGTTTATTAGCATGGACCTGCACAAGGATGCGGGCCCTCCCGCCGACGACCTCCAGAGCCTGGG
CTACTGCATGCTGAAGTGGCTCTACGGGTTTCTGCCATGGACAAATTGCCTTCCCAACTGAGGACATC
ATGAAGCAAAAACAGAAGTTTGTGATAAGCCGGGGCCCTTCGTGGGACCCTGCGGTCACTGGATCAGGC
CCTCAGAGACCCTGCAGAAGTACCTGAAGTGGTGTATGGCCCTCACGTATGAGGAGAAGCCGCCCTACGC
CATGCTGAGGAACAACCTAGAAGCTTGTGTCAGGATCTGCGTGTGTCTCCATATGACCCATTGGCCTC
CGATGGTGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG216625 representing NM_001025778

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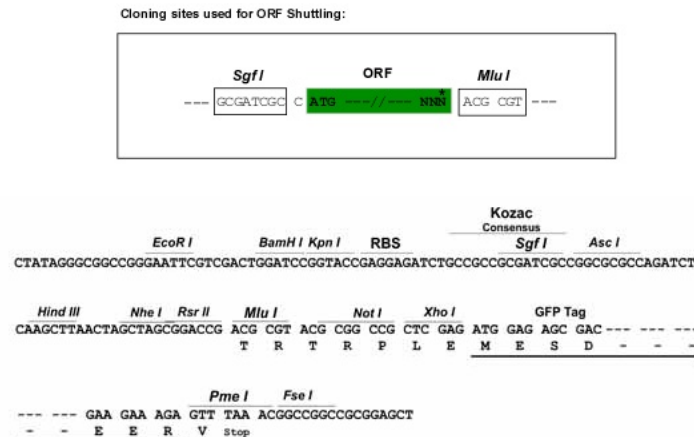
MISFCPDCGKSIQAAFKFCPYCGNSLPVEEHVGSQTFVNPVHVSFFQSGSRPPTPKSSPQKTRKSPQVTR
GSPQKTS CSPQKTRQSPQTLKRSRVTTSLALPTGTVLTDKSGRQWKLKSFQTRDNQGILYEAAPTSTLT
CDSGPQKQKFSKLDADKGRLEFNEQNFQRAAKPLQVNKWKLYSTPLLAIPTCMGFGVHQDKYRFLVLP
SLGRSLQSALDVSPKHVLSERSVLQVACRLLEFLHENEYVHGNVTAENIFVDPEDQSQVTLAGYGFA
FRYCPSGKHVAYVEGSRSPHEGDLEFI SMDLHKGCGPSRRSDLQSLGYCMLKWL YGFLPWTNCLPNTEDI
MKQKQKFVDKPGPFVGP CGHWIRPSETLQKYLKVVMALTYEEKPPYAMLRNNLEALLQDLRVSPYDPIGL
PMVP

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001025778

ORF Size:

1272 bp

OTI Disclaimer:

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:

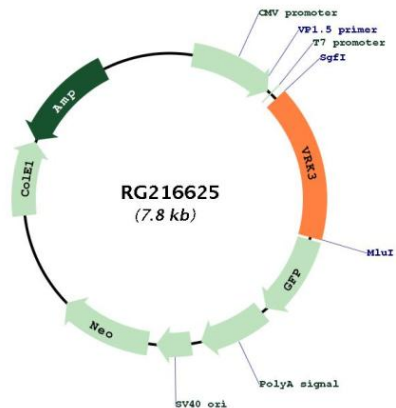
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001025778.1</u> , <u>NP_001020949.1</u>
RefSeq Size:	1979 bp
RefSeq ORF:	1275 bp
Locus ID:	51231
UniProt ID:	<u>Q8IV63</u>
Cytogenetics:	19q13.33
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	This gene encodes a member of the vaccinia-related kinase (VRK) family of serine/threonine protein kinases. In both human and mouse, this gene has substitutions at several residues within the ATP binding motifs that in other kinases have been shown to be required for catalysis. In vitro assays indicate the protein lacks phosphorylation activity. The protein, however, likely retains its substrate binding capability. This gene is widely expressed in human tissues and its protein localizes to the nucleus. Alternative splicing results in multiple transcripts encoding different isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG216625