

## Recombinant Human VRK2

**Cat. No.** VRK2-31741TH    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant fragment corresponding to amino acids 1-375 of Human VRK2 with an N terminal proprietary tag; MWt 66 kDa inclusive of tag.                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>              | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>       | 375 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>         | This gene encodes a member of the vaccinia-related kinase (VRK) family of serine/threonine protein kinases. This gene is widely expressed in human tissues and has increased expression in actively dividing cells, such as those in testis, leukocytes, fetal liver, and carcinomas. Its protein localizes to the endoplasmic reticulum and has been shown to phosphorylate casein and undergo autophosphorylation. Multiple alternatively spliced transcript variants have been found for this gene. |
| <b>Molecular Weight</b>    | 66.000kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Tissue specificity</b>  | Widely expressed. Highly expressed in fetal liver, skeletal muscle, pancreas, heart, peripheral blood leukocytes and testis.                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Biological activity</b> | Specific activity: 12 nmol/min/mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Form</b>                | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                              |                                                                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>                | >90% by SDS-PAGE                                                                                                                                     |
| <b>Storage buffer</b>        | Preservative: None<br>Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 10mM Glutathione, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, pH 7.5 |
| <b>Storage</b>               | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                            |
| <b>Sequence Similarities</b> | Belongs to the protein kinase superfamily. CK1 Ser/Thr protein kinase family. VRK subfamily. Contains 1 protein kinase domain.                       |

## GENE INFORMATION

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Gene Name</b>           | VRK2 vaccinia related kinase 2 [ Homo sapiens ]                        |
| <b>Official Symbol</b>     | VRK2                                                                   |
| <b>Synonyms</b>            | VRK2; vaccinia related kinase 2; serine/threonine-protein kinase VRK2; |
| <b>Gene ID</b>             | 7444                                                                   |
| <b>mRNA Refseq</b>         | NM_001130480                                                           |
| <b>Protein Refseq</b>      | NP_001123952                                                           |
| <b>MIM</b>                 | 602169                                                                 |
| <b>Uniprot ID</b>          | Q86Y07                                                                 |
| <b>Chromosome Location</b> | 2p16.1                                                                 |

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**Function**

ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity;

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