

## Product datasheet for TP302740

### Prostate Specific Antigen (KLK3) (NM\_001648) Human Recombinant Protein

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Recombinant protein of human kallikrein-related peptidase 3 (KLK3), transcript variant 1, 20 µg |
| Species:                              | Human   |
| Expression Host:                      | HEK293T   |
| Expression cDNA Clone or AA Sequence: | >RC202740 protein sequence<br>Red=Cloning site Green=Tags(s)                                    |

MWVPWFLLTSLVTWIGAAPLILSRIVGGWECEKHSQPWQVLVASRGRAVCGGVLVHPQWVLTAAHCIRNK  
SVILLGRHSLFHPEDTGQVFQVSHSFPHPPLYDMSLLKNRFLRPGDDSSHDLMMLRLSEPAELTDAVKVMD  
LPTQEPALGTTTCYASGWGSIEPEEFLTPKKLQCVDLHVISNDVCAQVHPQKVTKFMLCAGRWTGGKSTCS  
GDSGGPLVCNGVLQGITSWGSEPCALPERPSLYTKVVHYRKWIKDTIVANP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                |  |
|----------------|--|
| Tag:           | C-Myc/DDK  |
| Predicted MW:  | 26.8 kDa   |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:        | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| Preparation:   | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                     |
| Note:          | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage:       | Store at -80°C.  |
| Stability:     | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.        |
| RefSeq:        | <a href="#">NP_001639</a>  |
| Locus ID:      | 354  |



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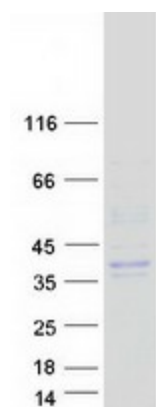
UniProt ID: [P07288, Q546G3](#)  
RefSeq Size: 1464  
Cytogenetics: 19q13.33  
RefSeq ORF: 783  
Synonyms: APS; hK3; KLK2A1; PSA

**Summary:** Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. The gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. It encodes a single-chain glycoprotein, a protease which is synthesized in the epithelial cells of the prostate gland, and is present in seminal plasma. It is thought to function normally in the liquefaction of seminal coagulum, presumably by hydrolysis of the high molecular mass seminal vesicle protein. The serum level of this protein, called PSA in the clinical setting, is useful in the diagnosis and monitoring of prostatic carcinoma. Alternate splicing of this gene generates several transcript variants encoding different isoforms. [provided by RefSeq, Dec 2019]

**Protein Families:** Druggable Genome, Protease, Secreted Protein

**Protein Pathways:** Pathways in cancer, Prostate cancer

### Product images:



Coomassie blue staining of purified KLK3 protein (Cat# TP302740). The protein was produced from HEK293T cells transfected with KLK3 cDNA clone (Cat# [RC202740]) using MegaTran 2.0 (Cat# [TT210002]).