

## Product datasheet for **TL311869**

### Kallikrein 7 (KLK7) Human shRNA Plasmid Kit (Locus ID 5650)

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | shRNA Plasmids   |
| Product Name:             | Kallikrein 7 (KLK7) Human shRNA Plasmid Kit (Locus ID 5650)  |
| Locus ID:                 | 5650   |
| Synonyms:                 | hK7; PRSS6; SCCE   |
| Vector:                   | pGFP-C-shLenti (TR30023)   |
| E. coli Selection:        | Chloramphenicol (34 ug/ml)   |
| Mammalian Cell Selection: | Puromycin  |
| Format:                   | Lentiviral plasmids  |
| Components:               | KLK7 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 5650). 5µg purified plasmid DNA per construct<br>29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.  |
| RefSeq:                   | <a href="#">BC032005</a> , <a href="#">NM_001207053</a> , <a href="#">NM_001243126</a> , <a href="#">NM_005046</a> , <a href="#">NM_139277</a> , <a href="#">NM_005046.1</a> , <a href="#">NM_005046.2</a> , <a href="#">NM_005046.3</a> , <a href="#">NM_139277.1</a> , <a href="#">NM_139277.2</a> , <a href="#">NM_001207053.1</a> , <a href="#">NM_001243126.1</a> , <a href="#">BC032005.1</a> , <a href="#">NM_001207053.2</a> , <a href="#">NM_005046.4</a>   |
| UniProt ID:               | <a href="#">P49862</a>   |
| Summary:                  | This gene encodes a member of the kallikrein subfamily of serine proteases. These enzymes have diverse physiological functions and many kallikrein genes are biomarkers for cancer. The encoded protein has chymotrypsin-like activity and plays a role in the proteolysis of intercellular cohesive structures that precedes desquamation, the shedding of the outermost layer of the epidermis. The encoded protein may play a role in cancer invasion and metastasis, and increased expression of this gene is associated with unfavorable prognosis and progression of several types of cancer. Polymorphisms in this gene may play a role in the development of atopic dermatitis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, which is one of fifteen kallikrein subfamily members located in a gene cluster on chromosome 19. [provided by RefSeq, May 2011] |
| shRNA Design:             | These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .   |



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**Performance  
Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).