

## Product datasheet for **TL305173**

### Cathepsin H (CTSH) Human shRNA Plasmid Kit (Locus ID 1512)

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | shRNA Plasmids  |
| Product Name:             | Cathepsin H (CTSH) Human shRNA Plasmid Kit (Locus ID 1512)  |
| Locus ID:                 | 1512  |
| Synonyms:                 | ACC-4; ACC-5; ACC4; ACC5; CPSB  |
| Vector:                   | pGFP-C-shLenti (TR30023)  |
| E. coli Selection:        | Chloramphenicol (34 ug/ml)  |
| Mammalian Cell Selection: | Puromycin   |
| Format:                   | Lentiviral plasmids   |
| Components:               | CTSH - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 1512).<br>5µg purified plasmid DNA per construct<br>29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.  |
| RefSeq:                   | <a href="#">NM_001319137</a> , <a href="#">NM_004390</a> , <a href="#">NM_148979</a> , <a href="#">NM_004390.1</a> , <a href="#">NM_004390.2</a> , <a href="#">NM_004390.3</a> ,<br><a href="#">NM_004390.4</a> , <a href="#">BC002479</a> , <a href="#">BC002479.2</a> , <a href="#">BC018821</a> , <a href="#">BM849425</a> , <a href="#">NM_004390.5</a>   |
| UniProt ID:               | <a href="#">P09668</a>  |
| Summary:                  | The protein encoded by this gene is a lysosomal cysteine proteinase important in the overall degradation of lysosomal proteins. It is composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. The encoded protein, which belongs to the peptidase C1 protein family, can act both as an aminopeptidase and as an endopeptidase. Increased expression of this gene has been correlated with malignant progression of prostate tumors. Alternate splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2016] |
| 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).