

## Product datasheet for TR310183

## OriGene Technologies, Inc.

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## **Lubricin (PRG4) Human shRNA Plasmid Kit (Locus ID 10216)**

**Product data:** 

**Product Type:** shRNA Plasmids

**Product Name:** Lubricin (PRG4) Human shRNA Plasmid Kit (Locus ID 10216)

**Locus ID:** 10216

Synonyms: CACP; HAPO; JCAP; MSF; SZP

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

Components: PRG4 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

10216). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

RefSeq: NM 001127708, NM 001127709, NM 001127710, NM 001303232, NM 005807,

NM 001127710.1, NM 001127710.2, NM 001127709.1, NM 001127709.2, NM 001127708.1,

NM 001127708.2, NM 001303232.1, NM 005807.2, NM 005807.3, NM 001303232.2

UniProt ID: Q92954

**Summary:** The protein encoded by this gene is a large proteoglycan that is synthesized by chondrocytes

located at the surface of articular cartilage and by some synovial lining cells. This protein contains both chondroitin sulfate and keratan sulfate glycosaminoglycans. It functions as a boundary lubricant at the cartilage surface and contributes to the elastic absorption and energy dissipation of synovial fluid. Mutations in this gene result in camptodactyly-arthropathy-coxa vara-pericarditis syndrome. Alternative splicing results in multiple

transcript variants. [provided by RefSeq, Dec 2014]

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 <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.







## 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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).