

Product datasheet for **SC338019**

Lubricin (PRG4) (NM_001303232) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lubricin (PRG4) (NM_001303232) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRG4
Synonyms:	CACP; HAPO; JCAP; MSF; SZP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001303232, the custom clone sequence may differ by one or more nucleotides

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ATGGCATGAAAAACACTTCCCATTACCTGTTGTTGCTGCTGTCTGTTTTCGTGATTGAGCAAGTTTCAT
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CAATACTATAACATTGATGTGCCTAGTAGAACAGCAAGAGCAATTACTACTCGTTCTGGGCAGACCTTAT
CCAAAGTCTGGTACAACCTGTCCTTAG
    
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- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001303232
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001303232.1](#), [NP_001290161.1](#)

RefSeq Size: 4921 bp

RefSeq ORF: 4086 bp

Locus ID: 10216

UniProt ID: [Q92954](#)

Cytogenetics: 1q31.1

Gene 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]

Transcript Variant: This variant (E, also known as V1) lacks an alternate in-frame exon in the 5' coding region, compared to variant A. The resulting protein (isoform E) is shorter than isoform A.