

Product datasheet for **SC323275**

Lubricin (PRG4) (NM_001127709) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lubricin (PRG4) (NM_001127709) Human Untagged Clone
Tag: Tag Free
Symbol: Lubricin
Synonyms: CACP; HAPO; JCAP; MSF; SZP
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_001127709, the custom clone sequence may differ by one or more nucleotides

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ATGGCATGGAACACTTCCCATTACCTGTTGTTGCTGCTGCTGTTTTTCGTGATTCAG
CAAGTTTCATCTCAAGATTTATCAAGCTGTGCAGGGAGATGTGGGAAGGGTATTCTAGA
GATGCCACCTGCAACTGTGATTATAACTGTCAACTACATGGAGTGCTGCCCTGATTTT
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CCCAACACCCCTAAGGAGCCTGCTCCAACCTACCCCTAAGGAGCCTGCTCCAACCTACCCCT
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CAATACTATAACATTGATGTGCCTAGTAGAACAGCAAGCAATTACTACTCGTTCTGGG
CAGACCTTATCCAAAGTCTGGTACAACCTGTCCT
    
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Restriction Sites:

Please inquire

ACCN:

NM_001127709

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).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001127709.1](#), [NP_001121181.1](#)

RefSeq Size: 4780 bp

RefSeq ORF: 3936 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 (C, also known as V2) lacks two alternate in-frame exons in the 5' coding region, compared to variant A. The resulting protein (isoform C) is shorter than isoform A. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.