

## Product datasheet for **RG240125**

### Lubricin (PRG4) (NM\_001303232) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lubricin (PRG4) (NM_001303232) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lubricin
Synonyms:	CACP; HAPO; JCAP; MSF; SZP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG240125 representing NM_001303232. Blue=ORF Red=Cloning site Green=Tag(s)

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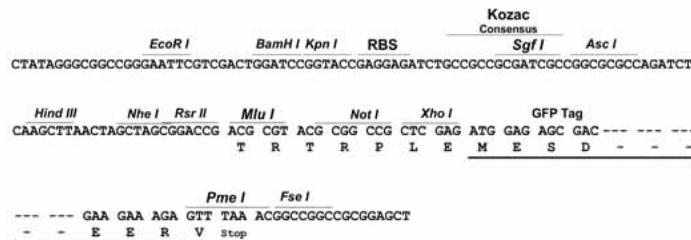
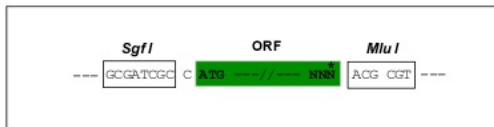
Protein Sequence: >Peptide sequence encoded by RG240125  
 Blue=ORF Red=Cloning site Green=Tag(s)

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Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

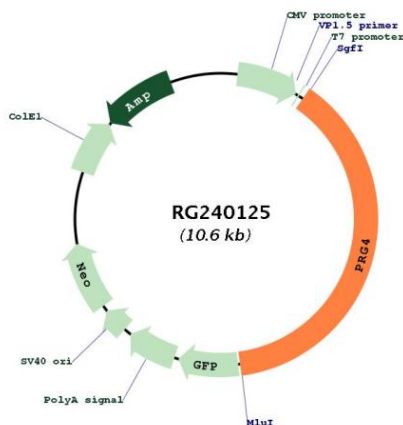


ACCN: NM\_001303232

ORF Size: 4083 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001303232.2</a>
<b>RefSeq Size:</b>	4921 bp
<b>RefSeq ORF:</b>	4086 bp
<b>Locus ID:</b>	10216
<b>UniProt ID:</b>	<a href="#">Q92954</a>
<b>Cytogenetics:</b>	1q31.1
<b>MW:</b>	146.9 kDa
<b>Gene Summary:</b>	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]

### Product images:



Circular map for RG240125