

## Product datasheet for **MR222669**

### **Prg4 (NM\_001110146) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Prg4 (NM_001110146) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prg4
Synonyms:	CACP; DOL54; JCAP; lubricin; MSF; SZP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR222669 representing NM\_001110146  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGGGTGGAAAATACTTCCCGTCTGCTTGTGCTGCTGCTTCTGTTGTCTTGATTCAACAGGTTTCAT  
 CTAAGATTTATCAAGCTGTGCAGGAGATGTGGGAAGGGTACTCTAGAGATGCCACCTGCAACTGTGA  
 TTATAACTGTCAACACTACATGGAGTGCTGCTGATTCAAGAGAGTCTGCACTACAGAGCTCTCTGC  
 AAAGGACGCTGCTTCGAGTCTTCGCTCGAGGGAGGGAGTGTGACTGTGACTCCCAGTGTAAACAGTATG  
 GCAAGTGTGTGAGATTATGACAGCTTCTGTGAAGAAGTAAAAGATAACAAGAAAAACTCTAAAAA  
 GAAACCAATCCAGAACCGCGCTGTGGATGAAGCTGGAAGCGGGCTGGATAATGCTATTCCAGGCACT  
 GATCTTTGGCCGGGAGACTCAATCAAGGCATTAACATCAATCCCATGCTTTCAGATGAGACCAATTTAT  
 GCAATGGTAAGCCAGTGGATGGACTGACTACGCTGCGCAATGGGACATTAGTTGCATTTTCGAGGTCATTA  
 TTTCTGGATGCTGAATCCATTAGACCACCATCTCCACCACGCAATTACCGAAGTTTGGGGTATTCCC  
 TCTCTATTGACACAGTTTTTACTAGATGTAAGTGAAGGAAAACTTTCTTCTTAAGGATTCTCAGT  
 ACTGGCGCTTACCAATGATGTGGTAGATCCTGGGTATCCTAAACAAATTGTCAAAGGCTTTGGAGGACT  
 AACAGGGAAGATAGTGGCTGCTCTTTCAATAGCCAAGTACAAGGACAGGCTGAATCTGTGACTTCTTC  
 AAGAGAGTGGCAACATTAGCAGTACACTATAAACAGGAGCCAATGAAGAAGTGCACAGGAGGCGGC  
 CTGCCATCACTACTCGGTGTACGGGGAGGACAGGTCAGGAGGCGCCGCTTTGAGCGTGTGTTGG  
 ACCTTTCCAGACACACCTTCCAGATCCATTACTCGGTGCCATGAGAGTTTCTTATCAAGACAAAGGT  
 TTCTCCACAATGAAGTCAAAGTGAAGTACAATGTGGAGAGGGTTCCAAATGTTGTTACTTCAGCGATAA  
 CACTGCCATAACATTAGGAAACCTGATGGCTATGATTACTACGCCTTTTCCAAAGATCAATACTATAACAT  
 TGATGTGCCTACAAGAACAGCAAGAGCAATTACCACACGTTTCAGGGCAGACCCTCTCCAAATCTGGTAC  
 AACTGTCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR222669 representing NM\_001110146  
 Red=Cloning site Green=Tags(s)

MGWKILPVCLSLLLPVVLIQQVSSQDLSSCAGRCGEGYSRDATCNCNDYNCQHMECCPDFKRVCTTELSC  
 KGRCFESFARGRECDQCKQYKCCADYDSFCEEVDNKNTPKKNPEPPAVDEAGSGLDNAIPGT  
 DLLAGRLNQGGINPMLSDETNLNCGKPDGLTTLRNGTLVAFRGHYFWMLNPFRRPSPRRITEVWGIP  
 SPIDTVFTRCNCEGKTFKDSQYWRFTNDVVDPGYPKQIVKGFGLTGKIVAALSIKAKYDRPESVYFF  
 KRGGNIQQYTYKQEPMKCTGRRPAINYVYGEAAQVRRRRFERAVGPFQTHTFRIHYSVPMRVSQDKG  
 FLHNEVKVSTMWRGFPNVVTSAILPNIRKPDGYDYAFSKDQYINIDVPTRTARAITTRSGQTLSKIWY  
 NCP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001110146

**ORF Size:** 1269 bp

**OTI Disclaimer:** 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. [More info](#)
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\_001110146.1, NP\_001103616.1
**RefSeq Size:** 1884 bp

**RefSeq ORF:** 1272 bp

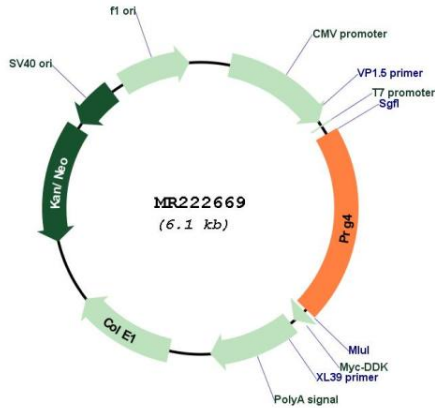
**Locus ID:** 96875

**UniProt ID:** Q9JIM99
**Cytogenetics:** 1 G1

**MW:** 48.5 kDa

**Gene Summary:** Plays a role in boundary lubrication within articulating joints. Prevents protein deposition onto cartilage from synovial fluid by controlling adhesion-dependent synovial growth and inhibiting the adhesion of synovial cells to the cartilage surface.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR222669