

Product datasheet for MC224000

Prg4 (NM_021400) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prg4 (NM_021400) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Prg4
Synonyms:	CACP; DOL54; JCAP; lubricin; MSF; SZP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224000 representing NM_021400 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGTGGAAAATACTCCCGTCTGCTTGTGCGTCTGCTTCTGTTGCTTGATTCAACAGGTTTCAT
CTCAAGATTTATCAAGCTGTGCAGGAGATGTGGGAAGGGTACTCTAGAGATGCCACCTGCAACTGTGA
TTATAACTGTCAACACTACATGGAGTGTCTCCTGATTTCAAGAGAGTCTGCACTACAGAGCTCTCCTGC
AAAGGACGCTGCTTCGAGTCTTCGCTCGAGGGAGGGAGTGTGACTGTGACTCCCAGTGTAAACAGTATG
GCAAGTGCTGTGCAGATTATGACAGCTTCTGTGAAGAAGTGCATAATCCACATCACCATCTCCAAGAC
TGCACCTCCGCTCCAGGAGCATCTCACACCATCAAATCAACTACCAAACGCTCACCCAAATCACAAAA
AAGAAGACTAAGAAAGTTGTAGAATCTGAGGAAAATAACAGAAGAACATTCTGTTTCTGAAAAATCAAGAGT
CCTCCTCCTCCTCTTCTTCTTCAACTATTCGAAAAATCAAGTCTTCAAAAAATTCAGCTAATAG
AGAATTACAGAAGAACCCAAAAGTAAAAGATAACAAGAAAAACTCCTAAAAAGAAACCAATCCAGAA
CCGCCGGCTGTGGATGAAGCTGGAAGCGGGCTGGATAATGGTGAGTTCAAGCTCACCCACCTCCTCCTG
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TAAACCCAGTCTTGACCTAATTCGTGACATCCAAGAGGCATCTTTAGCATCCAATAAAGAGACAACA
GTTGAAACGAAAAGAGACTACTGCAACAAATAAACAATCTTCTGCCAGTAAAAAAAAGACGACTTCAGCTA
AAGAGACACGGAGTGCAGAGAAAACATCTGATAAAGATGTTGAGCCACATCTACAACCTCCAAGAACTC
AGCTCCCCTACTACTCAAGAAGCCTGTTACTACAACCAAGGAACCAAGTTCCTACCCTCCAAGGAGCCT
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AACCCACAACCTCCAAGGAGCCTGAACCCACCACCCCAAGGAGCCTGAACCCACCCTCCAAGGAGCC
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GCCTGAACCTACAACCCCAAGGAGCCTGAACCCACAACCTCCAAGGAGCCTGAACCCACCCTCTCAAG
GAGCCTGAACCCACCACGCCAAGGAGCCTGAACCCACAACCTCCAAGGAGCCTGAACCTACAACCCCA



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AGGAGCCTGAACCCACAACCTCCCAAGGAGCCTGAACCCACAACCTCCCAAGGAGCCTGAACCCACAACCTCC
 CAAGGAGCCTGAACCCACAACCTCCCAAGGAGCCTGAACCCACCACGCCAAGGAGCCTGAACCCACAAC
 CCCAAGGAGCCTGAACCTACAACCCCAAGGAGCCTGAACCCACAACCTCCCAAGGAGCCTGAACCCACCA
 CTCTCAAGGAGCCTGAACCTACAACCCCAAGGAGCCTGAACCCACCACCTCCCAAGGAGCCTGAACCCAC
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 ACAACCCCAAGGAGCCTGAACCCACCACCACCAAGGAGCCTGAATCCACCACCCGCAAGGAGCCTGAAC
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 GAACCCACAACCCCAAGGAGCCTGAACCCACAACCTCCCAAGAAACCTGAACCCACAACCTCCCAAGGAGC
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 CAACAACCTCTTGACCCAAAGTAACTGCTCCAGCAGAAGAGATTGAGAACAACCTGAAGAAACAACCTCC
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 CTATTCAGGCACTGATCTTTGGCCGGGAGACTCAATCAAGGCATTAACATCAATCCCATGCTTTCAGA
 TGAGACCAATTTATGCAATGGTAAGCCAGTGGATGGACTGACTACGCTGCGCAATGGGACATTAGTTGCA
 TTTGAGGTTCATTATTTCTGGATGCTGAATCCATTCAGACCACCTCTCCACCACGCAGAATTACCGAAG
 TTTGGGTATTCCTCTCTCTATTGACACAGTTTTTACTAGATGTAACCTGTAAGGAAAAAATTTCTTCTT
 TAAGGATTCTCAGTACTGGCGCTTCACCAATGATGTGGTAGATCCTGGGTATCCTAAACAATTTGTCAA
 GGCTTTGGAGGACTAACAGGGAAGATAGTGGCTGCTCTTTCAATAGCCAAGTACAAGGACAGGCCTGAAT
 CTGTGTACTTCTCAAGAGAGGTGGCAACATTCAGCAGTACACTTATAAACAGGAGCCAATGAAGAAGTG
 CACAGGGAGGCGGCTGCCATCAACTACTCGGTGTACGGGGAGGCAGCACAGGTCAGGAGGCGCCGCTTT
 GAGCGTGTGTTGGACCTTCCAGACACACACCTTCAGGATCCATTACTCGGTGCCCATGAGAGTTTCTT
 ATCAAGACAAAGTTTCTCCACAATGAAGTCAAAGTGAATGAGTACAATGTGGAGAGGTTTCCAAATGTTGT
 TACTTCAGCGATAACACTGCCTAACATTAGGAAACCTGATGGCTATGATTACTACGCTTTTCCAAAGAT
 CAATACTATAACATTGATGTGCCTACAAGAACAGCAAGAGCAATTACCACACGTTACGGGACAGCCCTCT
 CCAAAATCTGGTACAACCTGCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_021400
- Insert Size:** 3666 bp
- 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_021400.3](#), [NP_067375.3](#)

RefSeq Size: 4278 bp

RefSeq ORF: 3666 bp

Locus ID: 96875

Cytogenetics: 1 G1

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]
Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by orthologous human data.