

## Product datasheet for **RC209353**

### Asporin (ASPEN) (NM\_017680) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Asporin (ASPEN) (NM\_017680) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Asporin  
**Synonyms:** OS3; PLAP-1; PLAP1; SLRR1C  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC209353 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGC**

ATGAAGGAGTATGTGCTCCTATTATTCCTGGCTTTGTGCTCTGCCAAACCCTTCTTTAGCCCTTCACACA  
 TCGCACTGAAGAATATGATGCTGAAGGATATGGAAGACACAGATGATGATGATGATGATGATGATGATGA  
 TGATGATGATGATGATGATGATGAGGAGGACAACCTCTCTTTTCCAACAAGAGAGCAAGAAGCCATTTT  
 TTCCATTTGATCTGTTCCAATGTGCCATTTGGATGTCAGTGCATTCACGAGTTGTACATTGCTCAG  
 ATTTAGGTTTACCTCAGTCCCAACCAACATTCCATTTGATACTCGAATGCTTGATCTTCAAACAATAA  
 AATTAAGGAAATCAAAGAAAATGATTTTAAAGGACTCACTTCACCTTTATGGTCTGATCCTGAACAACAAC  
 AAGCTAACGAAGATTCACCCAAAAGCCTTTCTAACCAACAAGAAGTTGCGAAGGCTGTATCTGTCCACAA  
 ATCAACTAAGTAAAATACCACTTAATCTTCCCAAATCATTAGCAGAACTCAGAATTCATGAAAATAAAGT  
 TAAGAAAATACAAAAGGACACATTCAAAGGAATGAATGCTTTACACGTTTTGAAATGAGTGAAACCCT  
 CTTGATAAATAATGGGATAGAGCCAGGGCATTGAAAGGGTGACGGTGTCCATACAGAATTGCAGAAAG  
 CAAAACGACCTCAGTTCTTAAAGGCTTACCACCAACTTTATTGGAGCTTCACCTAGATTATAATAAAAT  
 TTCAACAGTGAACCTTGAGGATTTTAAACGATACAAAAGAATCACAAGGCTGGCCTAGGAAACAACAAA  
 ATCAGATATCGAAAATGGGAGTCTTGCTAACATACCACGTGTGAGAGAATAACATTTGGAAAACAATA  
 AACTAAAAAAAATCCCTCAGGATTACCAGAGTTGAAATACCTCCAGATAATCTTCCTCATTCTAATT  
 AATTGCAAGAGTGGGAGTAAATGACTTCTGTCCAACAGTGCCAAAAGATGAAGAAATCTTTATACAGTGCA  
 ATAAGTTTATTCAACAACCCGGTAAATACTGGGAAATGCAACCTGCAACATTCGTTGTGTTTTGAGCA  
 GAATGAGTGTTCAGCTTGGGAACCTTTGAATG

**ACGGTAC**CGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC209353 protein sequence  
Red=Cloning site Green=Tags(s)

MKEYVLLLFLALCSAKPFFSPSHIALKNMMLKDMEDTDDDDDDDDDDDDDEEDNSLFPTREPRSHF  
 FPFDLFPMCPFGCQCYSRVVHCSDLGLTSVPTNIPFDTRMLDLQNNKIKEIKENDFKGLTSLYGLILNNN  
 KLTKIHPKAFLTTKKLRRLYL SHNQLSEIPLNLPKSLAELRIHENKVKKIQKDTFKGMNALHVLEMSANP  
 LDNNGIEPGAFEGVTVFHIRIAEAKLTSVPKGLPPTLLELHLDYNKISTVELEDFKRYKELQRLGLGNNK  
 ITDIENGLANIPRVREIHLENNLKKIPSGLPKYLQIIFLHSNSIARVGVNDFCPTVPKMKKSLYSA  
 ISLFNNPVKYWEMQPATFRCLVLSRMSVQLGNFGM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6666\\_b05.zip](https://cdn.origene.com/chromatograms/mk6666_b05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_017680

**ORF Size:** 1152 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_017680.2](#)

**RefSeq Size:** 2541 bp

**RefSeq ORF:** 1140 bp

**Locus ID:** 54829

**UniProt ID:** [Q9BXN1](#)

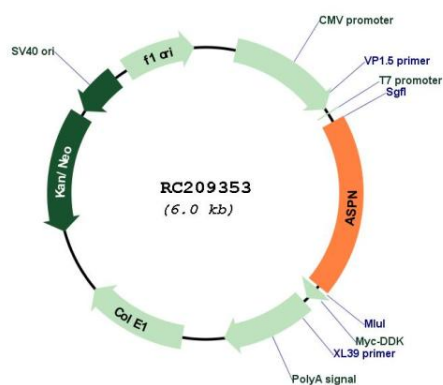
**Cytogenetics:** 9q22.31

**Protein Families:** Secreted Protein

**MW:** 43.9 kDa

**Gene Summary:** This gene encodes a cartilage extracellular protein that is member of the small leucine-rich proteoglycan family. The encoded protein may regulate chondrogenesis by inhibiting transforming growth factor-beta 1-induced gene expression in cartilage. This protein also binds collagen and calcium and may induce collagen mineralization. Polymorphisms in the aspartic acid repeat region of this gene are associated with a susceptibility to osteoarthritis, and also with intervertebral disc disease. Alternative splicing of this gene results in multiple transcript variants.[provided by RefSeq, Jul 2014]

Product images:



Circular map for RC209353