

Product datasheet for SC304509

Asporin (ASPN) (NM 017680) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Asporin (ASPN) (NM_017680) Human Untagged Clone

Tag: Tag Free
Symbol: Asporin

Synonyms: OS3; PLAP-1; PLAP1; SLRR1C

Mammalian Cell

Selection:

None

Vector: pCMV6-XL5

E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_017680 edited

GCCACCATGAAGGAGTATGTGCTCCTATTATTCCTGGCTTTGTGCTCTGCCAAACCCTTC TTTAGCCCTTCACACATCGCACTGAAGAATATGATGCTGAAGGATATGGAAGACACAGAT TCTCTTTTCCAACAGAGAGCCAAGAGCCATTTTTTTCCATTTGATCTGTTTCCAATG TGTCCATTTGGATGTCAGTGCTATTCACGAGTTGTACATTGCTCAGATTTAGGTTTGACC TCAGTCCCAACCAACATTCCATTTGATACTCGAATGCTTGATCTTCAAAACAATAAAATT AAGGAAATCAAAGAAAATGATTTTAAAGGACTCACTTCACTTTATGGTCTGATCCTGAAC AACAACAAGCTAACGAAGATTCACCCAAAAGCCTTTCTAACCACAAAGAAGTTGCGAAGG CTGTATCTGTCCCACAATCAACTAAGTGAAATACCACTTAATCTTCCCAAATCATTAGCA GAACTCAGAATTCATGAAAATAAAGTTAAGAAAATACAAAAGGACACATTCAAAGGAATG AATGCTTTACACGTTTTGGAAATGAGTGCAAACCCTCTTGATAATAATGGGATAGAGCCA GGGGCATTTGAAGGGGTGACGGTGTTCCATATCAGAATTGCAGAAGCAAAACTGACCTCA GTTCCTAAAGGCTTACCACCAACTTTATTGGAGCTTCACTTAGATTATAATAAAATTTCA ACAGTGGAACTTGAGGATTTTAAACGATACAAAGAACTACAAAGGCTGGGCCTAGGAAAC AACAAAATCACAGATATCGAAAATGGGAGTCTTGCTAACATACCACGTGTGAGAGAAATA CATTTGGAAAACAATAAACTAAAAAAAATCCCTTCAGGATTACCAGAGTTGAAATACCTC CAGATAATCTTCCTTCATTCTAATTCAATTGCAAGAGTGGGAGTAAATGACTTCTGTCCA ACAGTGCCAAAGATGAAGAAATCTTTATACAGTGCAATAAGTTTATTCAACAACCCGGTG AAATACTGGGAAATGCAACCTGCAACATTTCGTTGTGTTTTGAGCAGAATGAGTGTTCAG

CTTGGGAACTTTGGAATGTAA

Restriction Sites: Please inquire ACCN: NM_017680

Insert Size: 1200 bp



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Asporin (ASPN) (NM_017680) Human Untagged Clone - SC304509

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. It carries

12bp insertion in ORF around highly repetitive TGA regions.

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: <u>NM 017680.3</u>, <u>NP 060150.3</u>

 RefSeq Size:
 2480 bp

 RefSeq ORF:
 1143 bp

 Locus ID:
 54829

 UniProt ID:
 Q9BXN1

 Cytogenetics:
 9q22.31

Protein Families: Secreted Protein

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]

Transcript Variant: This variant (1), which represents the D13 allele, is the longer transcript

and encodes the longer isoform (1).