

Product datasheet for **RC209274**

HAPLN1 (NM_001884) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HAPLN1 (NM_001884) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HAPLN1
Synonyms:	CRT1; CRTL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209274 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAAGAGTCTACTTCTTCTGGTCTGATTTCAATCTGCTGGGCTGATCATCTTTCAGACAACACTATACTC
TGGATCATGACAGAGCTATTCACATCCAAGCAGAAAATGGCCCCATCTACTTGTGGAAGCAGAGCAAGC
CAAGGTGTTTTACACAGAGGTGGCAATGTTACTGCTGCCATGTAATTTTATCGAGACCTACAGCATT
GGCTCAGGAATCCATAAAATCCGAATTAAGTGGACCAAGCTAACTTCGGATTACCTCAAGGAAGTGGATG
TTTTTGTTCATGGGATACCACAAAAAACCTATGGAGGCTACCAGGTAGAGTGTTCGAAGGGAGG
CAGTGATAGTGATGCTTCTGCTCATCAGACCTCACTCTGGAAGATTATGGGAGATATAAGTGTGAG
GTGATTGAAGGATTAGAAGATGATACTGTTGTGGTAGCACTGGACTTACAAGGTGTGGTATTCCCTTACT
TTCCACGACTGGGGCGCTACAATCTCAATTTTACGAGGCGCAGCAGGCGTGTCTGGACCAGGATGCTGT
GATCGCTCCTTCGACCAGCTGTACGACGCTGGCGGGGGCGGCTGGACTGGTGCATGCCGGCTGGCTC
AGTGATGGCTCTGTGCAATATCCCATCACAAAGCCAGAGAGCCCTGTGGGGGCCAGAACACAGTGCCCG
GAGTCAGGAACACGGATTTTGGGATAAAGATAAAAGCAGATATGATGTTTTCTGTTTTACATCCAATTT
CAATGGCCGTTTTACTATCTGATCCACCCACCAAACGACCTATGATGTAGCGGTGCAAGCTTGTCTC
AATGATGGTGTCTCAGATTGCAAAAGTGGCCAGATATTTGCTGCCTGGAAAATTCGGATATGACCGCT
GTGATGCGGGCTGGTTGGCGGATGGCAGCGTCCGCTACCCATCTCTAGGCCAAGAAGGGCGCTGCAGTCC
TACTGAGGCTGCAGTGGCTTCGTGGTTTTCCAGATAAAAAGCATAAGCTGTATGGTGTCTACTGCTTC
AGAGCATAACAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC209274 protein sequence
Red=Cloning site Green=Tags(s)

MKSLLLLVLISICWADHLSNYTLDHDRAIHIQAENGPHELLVEAEQAKVFSHRGGNVTLPCKFYRDPTAF
 GSGIHKIRIKWTKLTS DYLKEVDV FVSMGYHKKTYGGYQGRVFLKGGSDSDASLVIDLTLEDYGRYKCE
 VIEGLEDDTVVVALDLQGVVFPYFRLGRYNLNFHEAQQACL DQDAVIASFDQLYDAWRGGLDWCNAGWL
 SDGSVQYPITKPREPCGGQNTVPGVRNYGFWDKDKSRYDVF CFTSNFNGRFYLLIHP TKLYDVAVQACL
 NDGAQIAKVGQIFAAWKILGYDRCDAGWLADGSVRYPI SRPRRRCSPTEAAVRFVGFDPDKKHKLYGVYCF
 RAYN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6236_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001884

ORF Size: 1062 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_001884.4](#)

RefSeq Size: 4678 bp

RefSeq ORF: 1065 bp

Locus ID: 1404

UniProt ID: [P10915](#)

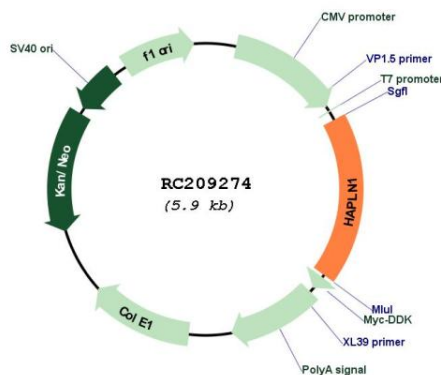
Cytogenetics: 5q14.3

Domains: Xlink, ig, IGv, IG

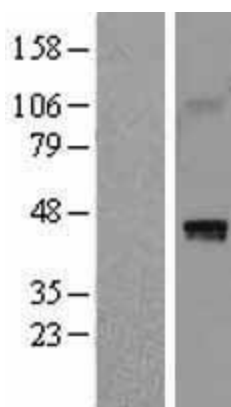
MW: 40.1 kDa

Gene Summary: Stabilizes the aggregates of proteoglycan monomers with hyaluronic acid in the extracellular cartilage matrix.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC209274



Western blot validation of overexpression lysate (Cat# [LY419681]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209274 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).