

Specifications:

Gene:	<i>h</i> OGN
Accession:	NP_054776.1
Insert size:	910bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

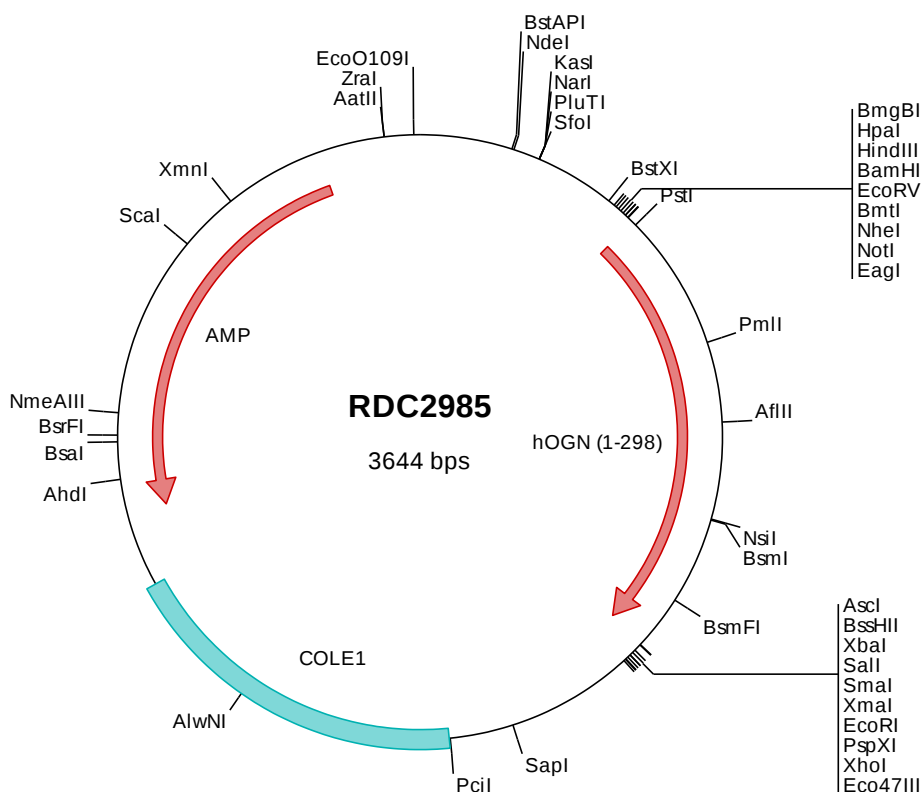
*h*Mimecan cDNA Plasmid

OGN osteoglycin [*Homo sapiens* (human)]

Also known as: OG; OIF; SLRR3A

Summary:

OGN is a member of the small leucine-rich proteoglycan (SLRP) family of proteins. It induces ectopic bone formation in conjunction with transforming growth factor beta and may regulate osteoblast differentiation. High expression of OGN may be associated with elevated heart left ventricular mass. Alternatively spliced transcripts encoding different proteins have been described.



> RDC2985 Plasmid DNA Sequence

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1   tcgcgcgcttt cggatgatgac ggtgaaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctcgcg aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagctt ggcgaaaggg ggaatgtgtg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgatatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccaacc atgaagactc tgcagtttac acttctctctg ttaactgcttg tgcccttgat
501  aaagccagca ccaccaaaccc agcaggactc acgcattatc tatgattatg gaacagataa ttttgaagaa tocatattta gccaaagatta tgaggataaa
601  tacctggatg gaaaaaatat taaggaaaaa gaaactgtga taatacccaa tgagaaaagt cttcaattac aaaaagatga ggcaataaca ccattacctc
701  ccaagaaaaga aaatgatgaa atgcccacgt gtctgtctgtg tgtttgttta agtggctctg tatactgtga agaagttgac attgatgctg taccaccttt
801  accaaaggaa tcagcctatc tttacgcacg attcaacaaa attaaaaagc tgactgcca agatttttga gacataccta acttaagaag actcgatttt
901  acaggaaatt tgatagaaga tatagaagat ggtacttttt caaaactttc tctgttagaa gaactttcac ttgctgaaaa tcaactacta aaacttccag
1001 ttcttctccc caacggcact ttattttaatg caaaatacaa caaaatcaag agtaggggaa tcaaaagcaa tgcattcaaa aaactgaata acctcaacct
1101 cctctacttg gaccataatg ccttggatc cgtgcctctt aatttaaccag aaagtctacg tgtaattcat cttoagttca acaacatagc ttcaattaca
1201 gatgacacat ttgtcaaggc taatgacacc agttacatcc gggaccgcac tgaagagata cgccctggagg gcaatccaat cgtctctggga aagcatccaa
1301 acagttttat ttgcttaaaa agattaccga tagggtcata cttttaaagg cgcgccagta tactctagag tcgacacccg gggaaattcct cgagcgctcg
1401  tctctagctt ggcgtaatac tggtcatagc tgtttcctgt gtgaaattgt tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa
1501  agcctggggg gcctaatact tgagctaaat cacttaattt gcgttgctgc cactgccgcg tttccagtcg ggaaacctgt cgtgccagct gcattaatatg
1601  atcggccaac gcgcggggag agcggttttg cgtattgggc gctcttcctc ttctcctcgc actgactcgc tgcgctcggt cgttcggctg ccgcgagcgg
1701  tatcagctca ctcaaaaggc gtaatacggg tatccacaga atcaggggat aacgcaggaa agaacaatgt agcaaaaagg cagcaaaagg ccaggaaaccg
1801  taaaaaggcc gcgttgcctg cgtttttcca taggtccgcg cccctctgac agcatcacia aaatcgacgc tcaagtacga ggtggcgaaa ccgcacagga
1901  ctataaaagt accagcgctt tccccctgga agctccctcg tgcgtctctc tgtttccgacc tgtttccgacc gctccaaagt gttccgcttt ctcctctcgg
2001  gaagcgtggc gcttttctca ttgtcacgct gtatgtatct cagttcggtg taggtcgctt gctccaagct gggctgtgtg cagcaacccc ccgttcagcc
2101  cgaccgctgc gccttatccg gtaactatcg tcttgatctc aaccggtaaa gacacgactc atcgccactg gcagcagcca ctggtaacag gattagcaga
2201  gcgaggtatg taggcggtgc tacagagttc ttgaaagtgt ggcctaacta cggctacact agaaggacag tatttggtat ctgcgctctg ctgaagccag
2301  ttaccttcgg aaaaagagtt ggtagctctt gatccggcaa acaaacacc cgtggttagc gtggtttttt tgtttgcaag cagcagatta ccgcgagaaa
2401  aaaaggatct caagaagatc ctttgatctt ttctacgggg tctgacgctc agtggaacga aaactcacgt taagggattt tggctcatgag attatcaaaa
2501  aggatcttca cctagatcct tttaaattaa aaatgaagtt ttaaatcaat ctaaaagtata tatgagtaaa cttggtctga cagttaccaaa tgcttaataca
2601  gtgagggacc tatctcagcg atctgtctat ttogttcatc catagtgtcc tgactccccg tcgtgtagat aactacgata ccggagggct taccatctgg
2701  cccagtgctt gcaatgatac cgcgagacc acgctcacgg tctccagatt tatcagcaat aaaccagcca gccggaaggg ccgagcgcaag aagtggctct
2801  gcaactttat ccgcctccat ccagctctatt aattgttgcc ggggaagctag agtaagtagt tcgccagtta atagtttgcg caacgttgtt gccatttgta
2901  caggcatcgt ggtgtcacgc tcgtcgcttg gtatggcttc attcagctcc ggttcccaac gatcaaggcg agttacatga tccccatgt tgtgcaaaaa
3001  agcggtttag tccttcggtc ctccgatcgt tgtcagaagt aagtggcccg cagtgttacc actcatggtt atggcagcac tgcataattc tcttactgtc
3101  atgcoatccg taagatgctt tttctgtgact ggtgagtact caaccaagtc attctgagaa tagtgtatgc ggcgaccgag ttgctcttgc ccggcgtaaa
3201  tacgggataa taccgcgcca catagcagaa ctttaaaagt gctcatcatt ggaataacgtt cttccggggc aaaactctca aggatcttac cgtctgttag
3301  atccagttcg atgtaaccca ctcgtgcacc caactgatct tcagcatctt ttactttcac cagcgtttct gggtgagcaa aaacaggaag gcaaaatgcc
3401  gcaaaaaagg gaataagggc gacacggaaa tgttgaatac tcatactctt cctttttcaa tattattgaa gcatttatca ggttatttgt ctcatgagcg
3501  gatacatatt tgaatgtatt tagaaaaata aacaaatagg ggttccgcgc acatttcccc gaaaagtgcc acctgacgtc taagaaacca ttattatcat
3601  gacattaacc tataaaaaata ggcgatatcac gaggcccttt cgtc

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> RDC2985 Translated Insert Sequence

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1   mktlqstlll lllvplikpa pptqgdsrii ydygtdnfee sifsqdyedk yldgknikek etviipneks lqlqkdeait plppkkende mptcllcvc1
101  sgsvyceeve idavpplpke saylyarfkn ikkltakdka dipnlrrldf tgnliedied gtfsklslle elslaenql1 klvp1ppklt lfnakynkik
201  srgikanafk klnnltflyl dhnalesvpl nlpeslrvih lqfnliasit ddtfcakandt syirdrieel rlegnpivlg khpnslfcll rlpigsyf

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