

### Specifications:

Gene:	hGJA4
Accession:	NP_002051
Insert size:	1015bp
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.

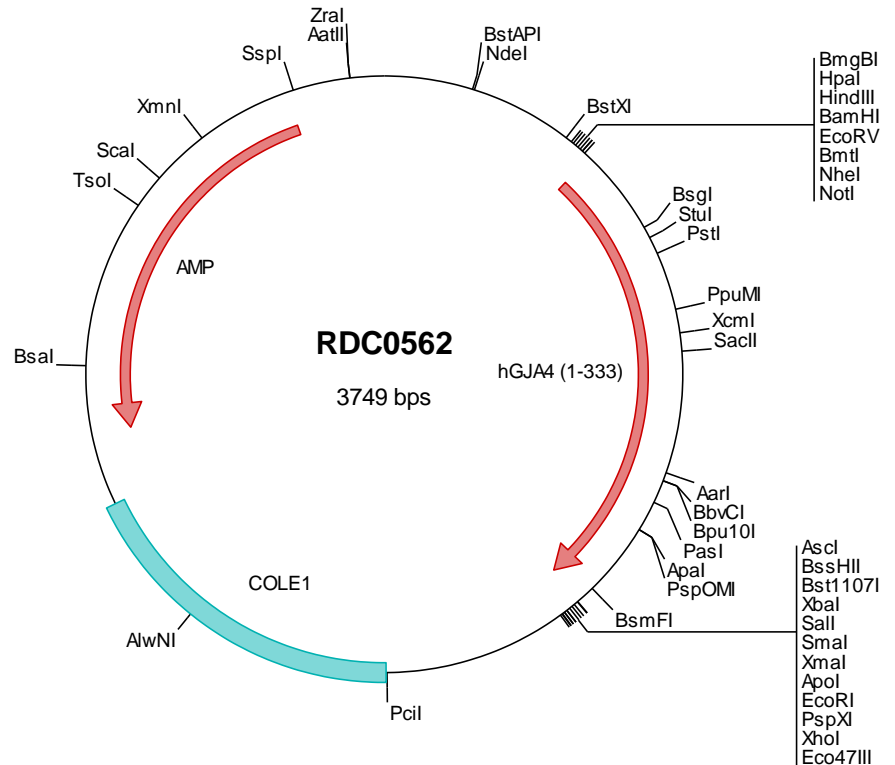
## hConnexin-37/GJA4 cDNA Plasmid

**GJA4 gap junction protein, alpha 4, 37kDa [ *Homo sapiens* ]**

**Also known as:** CX37; Connexin 37

### Summary:

Connexin 37, encoded by the GJA4 gene, protects against atherosclerosis. It is a component of gap junctions, which are composed of arrays of intercellular channels that provide a route for the diffusion of low molecular weight materials from cell to cell. Mutations in GJA4 have been associated with atherosclerosis and a higher risk of myocardial infarction.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0562 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcagggcgcg tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201 ccgcacacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
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501 ctogaccgtg gtgggtaaga tctggctgac ggtgctcttc atcttccgca tctcaatcct gggcctggcc ggcgagttag tgtggggtga cgagcagta
601 gatttogagt gtaaacacggc ccagccaggc tgcaccaacg totgctatga ccaggccttc cccatctccc acatccgcta ctgggtgctg cagtctctct
701 tegtcaagcac acccacctg gtctacctgg gccatgtcat ttacctgtct cggcgagaag agcggctcgg gcagaaggag ggggagctgc gggcactgcc
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1201 acccagggca cctcctcaga ccttaacacg gaccaggtct tottctacct cccgctgggc cagggggcct catccccacc atgccccacc tacaatgggc
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1601 tgtaaagcct ggggtgctca atgagtgagc taactcacat taattgcgtt gcgctcactg cccgctttcc agtcgggaaa cctgtcgtgc cagctgcatt
1701 aatgaatcgg ccaacgcgcg gggagagggc gtttgcgtat tggcgctct tccgctctct cgtcactga ctcgctgcgc tcggtcgttc ggtcggggc
1801 agcggatca gctcaactcaa agcggtaaat acggttatcc acagaatcag gggataacgc aggaaagaac atgtgagcaa aaggccagca aaaggccagg
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2201 cagcccagcc gctgcgctt atccgtaac tatcgtcttg agtccaacc ggtaagacac gacttatcgc cactggcagc agccactggt aacaggatta
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2401 gccagttacc ttcggaaaaa gagttgtag ctcttgatcc ggcaaacaaa ccaccgctg tagcgggtgt tttttgttt gcaagcagca gattacgcgc
2501 agaaaaaag gatctcaaga agatcctttg atcttttcta cggggctgta cgctcagtg aacgaaaact cacgtaagg gattttggtc atgagattat
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2701 aatcagtgag gcacctatct cagcagatct tctatttcgt toatccatag ttgcctgact ccccgctgtg tagataacta cgatacggga gggcttacca
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3701 atcatgacat taacctataa aaataggcgt atccaggagg cctttctgc

> RDC0562 Translated Insert Sequence

1 mgdwgflek1 ldqvqehstv vgkiwltvlf ifrllilgla gesvwdgeqs dfeentaqpg ctnvcydaqf pishirywvl qflfvstptl vylghviyls
101 rreerlrqke gelralpakd pqveralaav erqmakisva edgrlrirga lmgtyvasvl cksvleagfl yqqrlygwt mepvfvcqra pcpylvdcfv
201 srptektifi ifmlvvglis lvnlllelvh llrcslsrgm rarqqqdapp tqgtssdpyt dqvfilylpvg qppssppcpt ynglssseqn wanltteerl
301 assrplfld pppqngqkpp srpssaskk qyv