

## Specifications:

Gene:	hConnexin 43/GJA1
Accession:	NP_000156
Insert size:	1162bp
Concentration:	10µg at 0.2µg/µL

## hConnexin 43/GJA1 cDNA Plasmid

**GJA1 gap junction protein, alpha 1, 43kDa [ *Homo sapiens* ]**

**Also known as:** HSS; CX43; GJAL; ODDD; AVSD3; HLHS1; DFNB38

### Summary:

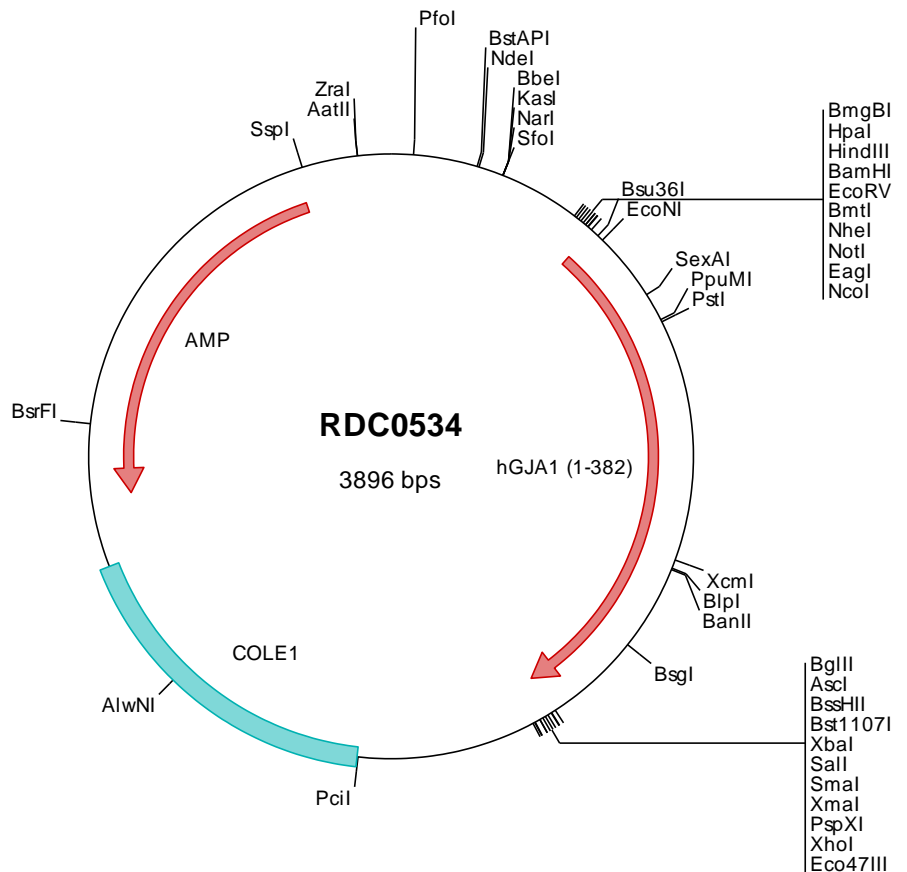
Connexin 43/GJA1 is a member of the connexin family of proteins. It is a widely expressed connexin with a long cytoplasmic C-terminal tail that contains several potential protein-interaction domains. GJA1 is a major component of gap junctions in the heart that may play a role in the synchronized contraction of the heart and in embryonic development. Mutations in GJA1 have been associated with oculodentodigital dysplasia and heart malformations.

## 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.





> RDC0534 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg teggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccagggt tttccagtc acgacgttgt aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagcct ggatccgata tcgctagcgc gggcgcacc atgggtgact ggagcgcctt aggcaaacct cttgacaagg ttaaacgcta
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3601 ttttactttc accagcgttt ctgggtgagc aaaaacagga aggcaaaatg ccgcaaaaaa gggaataaag gcgacacgga aatggttaat actcactac
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3801 gcacatttcc ccgaaaagtg ccacctgacg tctaagaaac cattattatc atgacattaa cctataaaaa taggcgtatc acgaggccct ttggtc

> RDC0534 Translated Insert Sequence

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101 rkeeklnkke eelkvaqtdg vnvdmh1kqi eikkfkygie ehgkvkrrgg llrtyiisil fksifevaf1 liqwyiygfs lsavytkrd pcphqvdcfl
201 srptektifi ifmlvsvlvs lalniiefly vffkgykdrv kgksdpyhat sgalspakdc gsqkyayfng cssptaplsp mspgpyklvt gdrnnsrnrn
301 ynkqaseqmw anysaeqnrm gqagstisns haqpfdfpdd nqnskklaag helqplavid qrpssrassr assrprpddl ei