

Specifications:

Gene:	<i>h</i> GJA3
Accession:	AAD42925
Insert size:	1321bp
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.

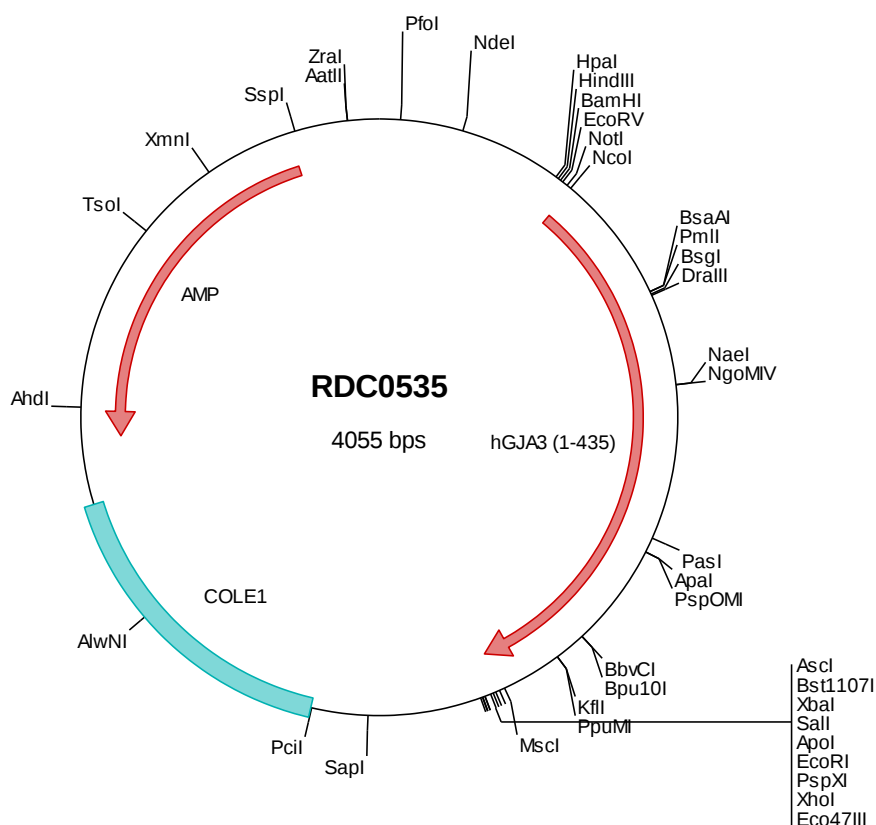
*h*Connexin 46/GJA3 cDNA Plasmid

GJA3 gap junction protein, alpha 3, 46kDa [*Homo sapiens*]

Also known as: CX46; CZP3

Summary:

GJA3 (Connexin 46) is a component of lens fiber gap junctions. Congenital cataract is the leading cause of visual disability in children. Defects in GJA3 are a cause of zonular pulverulent cataract type 3. Both normal hypoxic tissue (lens) and adaptive hypoxic tissue (breast tumor) utilize GJA3 as a protective strategy from hypoxia. GJA3 may provide a new direction for drug development for breast cancer treatment.





> RDC0535 Plasmid DNA Sequence

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101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggaatgtctg caaggcgatt aagtttggta acgccagggt tttccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgcaccc atgggcgact ggagctttct gggaagactc ttagaaaatg cacaggagca
501  ctccacggtc atcggcaagg ttggctgac cgtgctgttc atcttcgca tcttggctgt gggggccgcg cgggaggacg tgtggggcga tgagcagtca
601  gacttcaacct gcaacaccca gcagcggggc tgcgagaaag totgtacga cagggccttc cccatctccc acatccgctt ctgggcgctg cagatcatct
701  tegtgtccac gcccaacctc atctacctgg gccacgtgct gcacatcggt cgcattggaag agaagaagaa agagagggag gagggaggag agctgaagag
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2001 tgcattaatg aatcggccaa cgcgcgggga gaggcgggtt cgcgtattgg cgtctctccg cctcctcgct cactgactcg ctgctgcgtg tcgttcggct
2101 gcgcgcagcg gtatcagctc actcaaaagg ggtaatagcg ttatccacag aatcagggga taacgcagga aagaacatgt gagcaaaag ccagcaaaag
2201 gccaggaacc gtaaaaaggc cgcgttctgt cgcgttttcc ataggtcccg cccccctgac gagcatcaca aaaatcgacg ctcaagtcag aggtggcgaa
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> RDC0535 Translated Insert Sequence

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201  tifiifmlav acaslllml eiylhgwkl kqgvtsrlpg daseaplgt a dppplppssr ppavaigfpp yyahtaaplg qaravgyppa pppaadfkml
301  alteargkgy saklynghhh llmteqnwan qaaergppal kaypaastpa apspvgsssp plaheaeaga apllldgsgs slegsallagt peeeeqavtt
401  aaqmhqpplp lgdpggraska srassgrarp edlai
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