*h*Connexin 45/GJC1 VersaClone cDNA

Catalog Number: RDC1093

Specifications:

Gene:	*h*GJC1
Accession:	NP_005488
Insert size:	1203bp
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

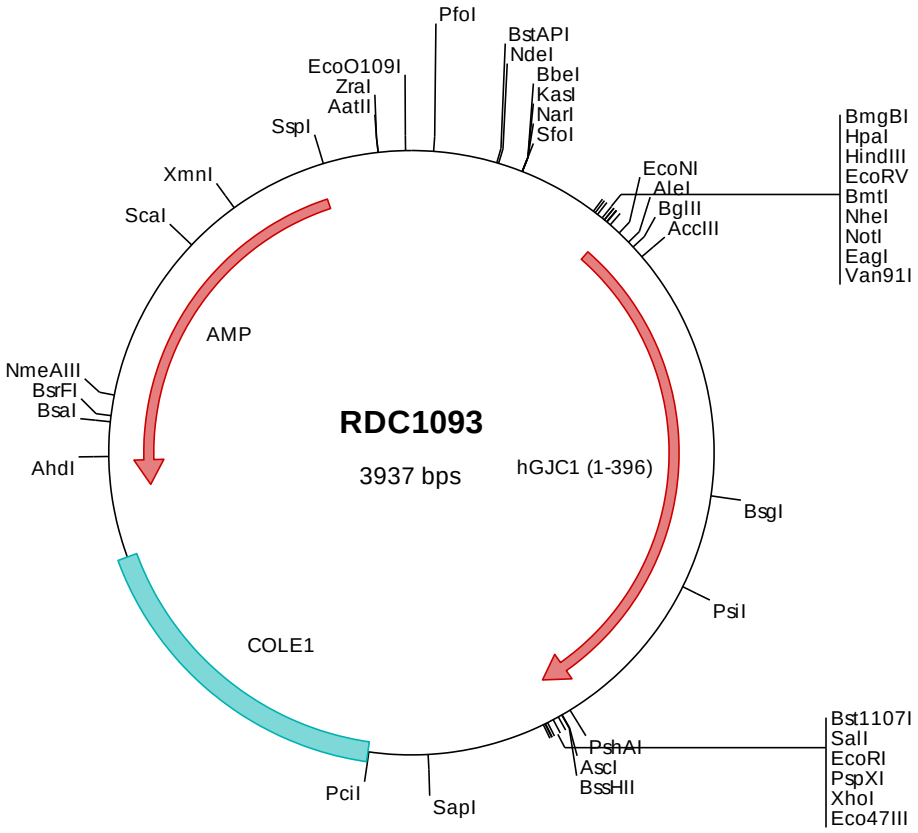
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*Connexin 45/GJC1 cDNA Plasmid

GJC1 gap junction protein, gamma 1, 45kDa [*Homo sapiens* (human)]

Also known as: CX45; GJA7

Summary:
GJC1 is a member of the connexin gene family. It is a component of gap junctions, which are membrane-spanning proteins that assemble to form gap junction channels that facilitate the transfer of ions and small molecules between cells. Mutations in connexin genes are associated with human diseases including sensorineural deafness, a variety of skin disorders, peripheral neuropathy and cardiovascular diseases.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC1093 Plasmid DNA Sequence

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 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
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 501  cacatttgtg gggaagatct ggctcactgt tctgattgtc ttccggatcg tccttacagc tgtaggagga gaatccatct attacgatga gcaaagcaaa
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 701  tggcaactcc ctctgtgatg tacctgggct atgctatcca caagattgcc aaaatggagc acggtgaagc agacaagaag gcagctcgga gcaagcccta
 801  tgcaatgcgc tggaaacaac accgggctct ggaagaaacg gaggaggaca acgaagagga tcctatgatg tatccagaga tggagttaga aagtgataag
 901  gaaaataaag agcagagcca acccaaacct aagcatgatg gccgacgacg gattcgggaa gatgggctca tgaaaatcta tgtgctgcag ttgctggcaa
1001  ggaccgtgtt tgaggtgggt tttctgatag ggcagtattt tctgtatggc ttccaagtcc acccgtttta tgtgtgcagc agacttcctt gtcctcataa
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1401  cacagcccag gaacagcagt atggcagcca tgaggagaac ctcccagctg acctggaggc tctgcagcgg gagatcagga tggctcagga acgcttggat
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1701  cttggcgtaa tcatggtcat agctgtttcc tgtgtgaaat tgttatccgc tcacaattcc acacaacata cgagccggaa gcataaagtg taaagcctgg
1801  ggtgcctaat gagtgagcta actcacatta attgcgttgc gctcactgcc cgctttccag tcgggaaacc tgtcgtgcca gctgcattaa tgaatcggcc
1901  aacgcgcggg gagaggcggt ttgcgtattg ggcgctcttc cgcttcctcg ctcactgact cgctgcgctc ggtcgttcgg ctgcggcgag cggtatcagc
2001  tcactcaaag gcggtaatac ggttatccac agaatcaggg gataacgcag gaaagaacat gtgagcaaaa ggccagcaaa aggccaggaa ccgtaaaaag
2101  gccgcgttgc tggcgttttt ccataggctc cgcccccctg acgagcatca caaaaatcga cgctcaagtc agaggtggcg aaacccgaca ggactataaa
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2901  acctatctca gcgatctgtc tatttcgttc atccatagtt gcctgactcc ccgtcgtgta gataactacg atacgggagg gcttaccatc tggccccagt
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> RDC1093 Translated Insert Sequence

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 201  fqvhpfyvcs rlpcphkidc fisrptekti fllimygvtg lclllniwem lhlgfgtird slnskrrele dpgaynypft wntpsappgy niavkpdqiq
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