

Specifications:

Gene:	<i>hGJC2</i>
Accession:	NP_065168
Insert size:	1332bp
Concentration:	10µg at 0.2µg/µL

*h*Connexin 47/GJC2 cDNA Plasmid

**GJC2 gap junction protein,
gamma 2, 47kDa [*Homo sapiens*
(human)]**

Also known as: Cx47; HLD2; GJA12; SPG44; CX46.6; LMPH1C; PMLDAR

Summary:

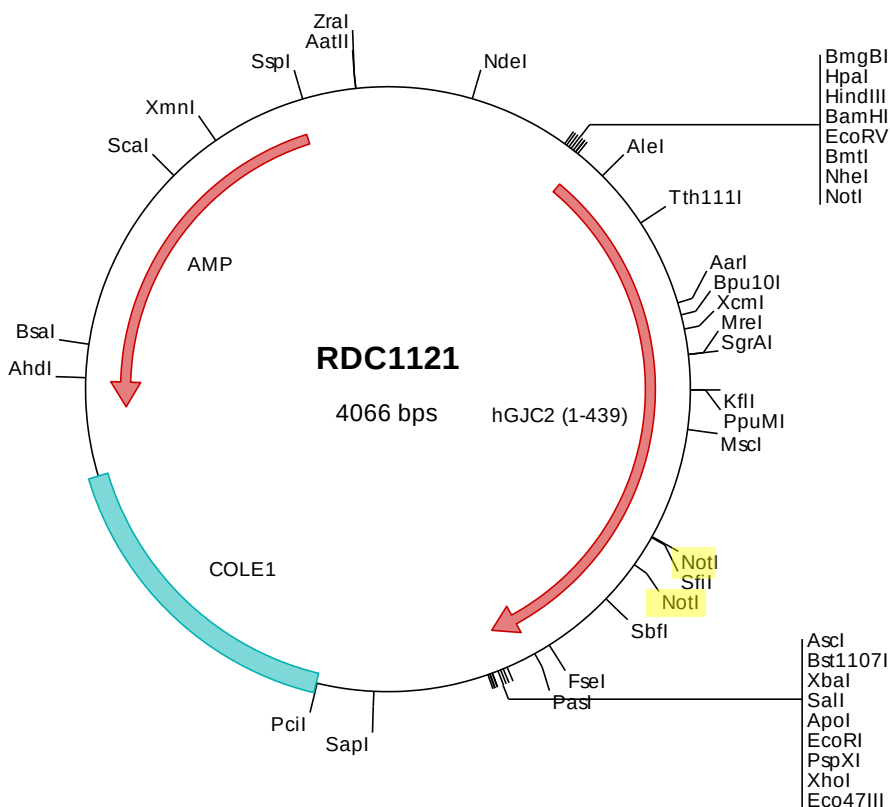
GJC2 is a member of the connexin gene family. It is a component of gap junctions, which are membrane-spanning proteins that assemble to form gap junction channels that facilitate the transfer of ions and small molecules between cells. GJC2 plays a key role in central myelination and is involved in peripheral myelination in humans. Defects in GJC2 are the cause of autosomal recessive Pelizaeus-Merzbacher-like disease-1.

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.



**Caution! Internal NotI sites
in this gene.**

FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC1121 Plasmid DNA Sequence

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1   tcgcgcggttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggaatgtctg caaggcgatt aagtttggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggaatccgata tcgctagcgc ggccgcgcacc atgaccaaca tgagctggag cttcctgaag cggctgctgg aggagatcca
501  caaccactcc accttcgttg gcaaggtgtg gctcacggtg ctggtgtgtot tccgcattgt gctgacgggt gtgggcggcg aggccatota ctcggaacgag
601  caggccaagt tcaacttgcaa cagcggcgag ccaggtctgcg acaacgtctg ctatgaagcc ttgcgcgcgc tgtgcacagt gcgcttctgg gtcttccaga
701  ttgttgtcat ctccacgccc tcggtcatgt acctgggcta cgctgtgcac cgctggcccc gtgcgtctga gcaggagcgg cgccgcgcgc tccgcgcgcg
801  cccggggcca cgccgcgcgc cccagggcca cctgcgcgcc cgcacgcgcg gctggcctga gccgcgcgac ctgggcgagg aggagcccat gctgggcctg
901  ggcgaggagg aggaggagga ggagacgggg gcagccgagg gcgcgcgcga ggaagcggag gaggcaggcg cggaggaggc gtgcactaag gcggtcggcg
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1201  ccgcacgttg tggactgctt cgtgtcgcgc cctactgaaa agacggtctt cctgctggtt atgtacgtgg tcagctgcct gtgcctgctg ctcaacctct
1301  gtgagatggc ccacctgggc ttgggcagcg cgcaggacgc ggtgcgcgcg cgcgcgcgcg ccccgccctc cgcgcccgcc ccgcgcgcgc ggcgcccgcc
1401  ctgctgcttc cctgcgcggg ccgctggctt ggccctggcc cccgactaca gctgtgtggt gcgggcggcc gagcgcgctc gggcgcatga ccagaacctg
1501  gcaaaccttg ccttcgaggg gctgcgcgac ggggcagcgg ctggggacgg cgacccggac agttcgcgct gcgtcggcct ccttcgcgcc tcccgggggc
1601  cccccagagc aggcgcgcgc cgttcccgga cgggcagctg tactctcgcg ggcactgtcg gggagcaggg ccggcccgcc acccacgagc ggcacggagg
1701  caagcccagg gctggctcgc agaaggcgag tgcccagcag agggacggga agaccaacct gtggatctga ggcgcgccag tatactctag agtcgacacc
1801  cggggaattc ctgcagcgct cgtctctagc ttggcgtaat catggtcata gctgtttcct gtgtgaaatt gttatccgct cacaattcca cacaacatac
1901  gagccggaag cataaagtgt aaagcctggg gtgcctaag agtgagctaa ctacattaa ttgcgtttcg ctactgccc gctttccagt cgggaaacct
2001  gtcgtgccag ctgcattaat aaatcgggca acgcgcgggg agagcggtt ttgcgtattg gcgctcttcc gcttccctcg tcaactgact gctgcgctcg
2101  gtcgttcgcg tcggcgcgagc ggtatcagct cactcaaaag cggtaatcag gttatccaca gaatcagggg ataacgcagg aaagaacatg tgagcaaaag
2201  gccagcaaaa ggcaggaaac cgtaaaaagg ccgcgtttgt ggcgtttttc cataggtctc gcccccttga cgagcatcac aaaaatcgac gctcaagtca
2301  gaagtgccga aaccgcagag gactataaag ataccagcg cgtgcgctct cgtgcgctct cgtgttccga ccttgccgct taccggatac
2401  ctgtccgctt ttctcccttc gggaaagcgt gcgctttctc aatgctacg ctgtaggtat ctcaagttcg ttaggtctgt tcgctccaag ctgggctgtg
2501  tgcacgaacc ccccgcttca cccgaccgct gcgccttacc cgttaactat gctacagagt tcttgaagtg ttgatccgca aaacaaacca ccgctggtag cgggtgtttt tttgtttgca
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2801  agcagcagat tacgcgcaga aaaaaaggat ctcaagaaga tccctttgat tttttacagg ggtctgacgc tcagtggaa c gaaaactcac gtttaagggat
2901  ttgtgtcatg agattatcaa aaaggatctt cacctagatc cttttaaatt aaaaatgaag ttttaaatca atctaaagta tatatagta aacttggtct
3001  gacagttacc aatgcttaat cagtgaaggca cctatctcag cgatctgtct atttcgttca tccatagttg cctgactccc cgtcgtgtag ataactacga
3101  tacgggaggg cttaccatct ggccccagtg ctgcaatgat accgcgagac ccacgctcac cggtccaga tttatcagca ataaccagc cagccggaag
3201  ggccgagcgc agaagtgttc ctgcaacttt atccgcctcc atccagtcta ttaattgttg ccgggaagct agagtaagta gttcgccagt taatagtttg
3301  cgcaacgttg ttgccattgc tacaggcatc gtggtgtcac gctcgtcgtt tggtatggct tcattcagct ccggttccca acgatcaagg cgagttacat
3401  gatcccccac gttgtgcaaa aaagcgggta gctccttcgg tctcgcgac gttgtcagaa gtaagttggc cgcagtgtta tcaactatgg ttatggcagc
3501  actgcataat tctcttactg tcatgccatc cgtaaagatg ttttctgtga ctggtgagta ctcaaccaag tcattctgag aatagtgtat gcggcgaccg
3601  agttgtctct gcccgcgctc aatacgggat aataccgcgc cacatagcag aactttaaaa gtgctcatca ttgaaaaacg tttcttcggg cgaaaaactc
3701  caaggtatctt accgctgttg agatcagtt cgatgtaacc cctcgtgcca cccaactgat cttcagcatc accagcgttt ccagcgttgc
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3901  cagggttatt gtctcatgag cggatacata tttgaatgta tttgaaaaaa taacaaataa ggggttccgc gcacatttcc ccgaaaagt ccacctgacg
4001  tctaagaaac cattattatc atgacattaa cctataaaaa taggcgtatc acgaggccct ttcgtc
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> RDC1121 Translated Insert Sequence

```
1   mtnmswslft rlleeihhns tfvgkwltv lvvfrivlta vggaiysde qakftcntrq pgcdnvcyda faplsrvrfw vfqivvistp svmylgyavh
101  rlaraseqer rralrrrrpg rraprahlpp phagwpepad lgeeeplmgl geeeeeetg aaegageeae eagaeactk avgadgkaag tpgptgqhgd
201  rrriqreglm rvyvaqlvar aafevaflvg qylllygferv pffpcsrqpc phvvdcfvsr ptektvflv myvvsclcll lnlcemahlg lgsaqdavrg
301  rrgppasapa paprpppcaf paaaaglacp pdyslvvraa erarahdqn l anlalqalrd gaaagdrdrd sspcvglpaa srppragap asrtsatsa
401  gtvgeqgrpg therpgakpr agseksass rdgkttvwi
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