

Specifications:

Gene:	<i>h</i> GJA9
Accession:	NP_110399
Insert size:	1560bp
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.

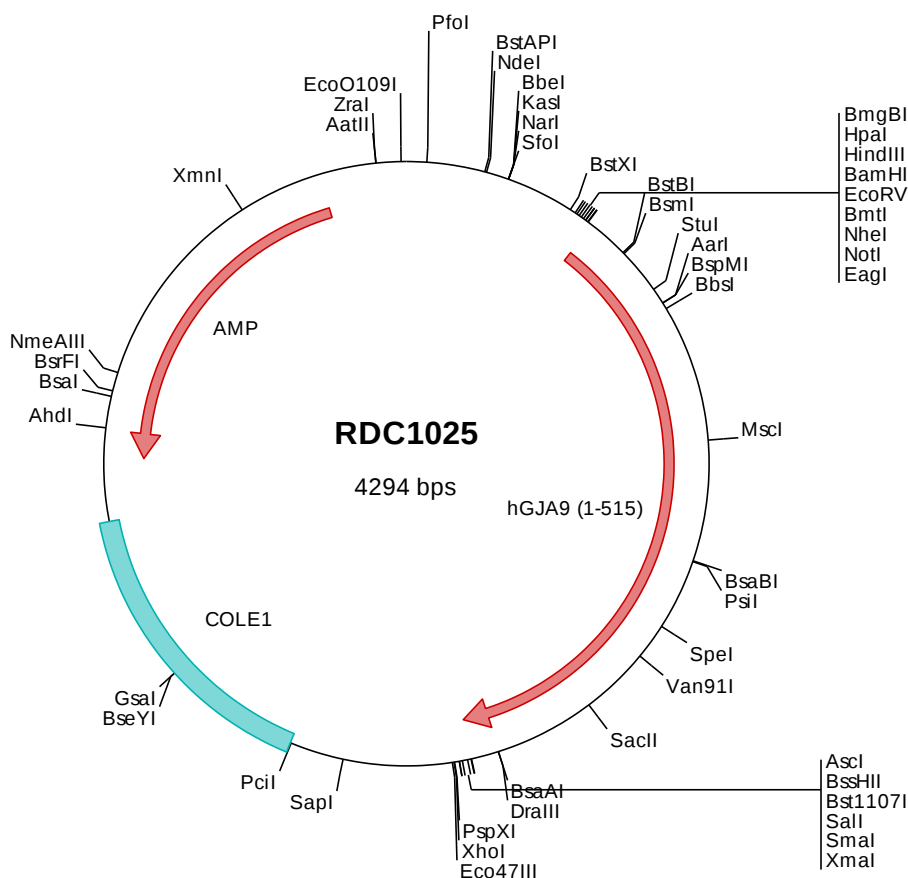
*h*Connexin 58/GJA9 cDNA Plasmid

GJA9 gap junction protein, alpha 9, 59kDa [*Homo sapiens* (human)]

Also known as: CX58; CX59; GJA10

Summary:

GJA9 is a member of the connexin gene family of proteins. 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. GJA9 is highly expressed in skeletal muscle.





> RDC1025 Plasmid DNA Sequence

```
1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgc 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 aagtgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgcaccc atgggggact ggaatctcct tggagataact ctggagggaag ttacacatcca
501  ctccaccatg attggaaaga tctggctcac catcctgttc atatttcgaa tgcttgttct ggggtgtagca gctgaagatg tctggaatga tgagcagctc
601  ggcttcatct gcaatacaga acaaccaggc tgcagaaatg tatgctacga ccaggccttt cctatctccc tcattagata ctgggtctctg cagggtgat
701  ttgtgtcttc accatccctg gtctacatgg gccatgcatt gtacgcactg agagtctctg aggaagagag gcaaaggatg aaagctcagt taagagtaga
801  actggaggag gtagagtttg aaatgcctag ggatcggagg agattggagc aagagctttg tcagctggag aaaaggaac taaataaagc tccactcaga
901  ggaaccttgc tttgcaacta tgtgatacac attttcaact cctctgttgt tgaagtgtga ttcattgatt gacagtacct tttatatgga tttcacttag
1001 agccgctatt taagtgccat ggcacccctg gtocaaatat aatgcactgt tttgtctcaa gaccaacaga aaagacaata ttcctattat ttatgcaact
1101 tatagccact atttcaactt tcttaaacat tcttgaatt ttccacctag gttttaaaaa gattaaaaga gggctttggg gaaaatacaa gttgaagaag
1201 gaacataatg aattccatgc aaacaaggca aaacaaatg tagccaaata ccagagcaca tctgcaaat cactgaagcg actcccttct gcccttgatt
1301 ataatctgtt agtggaaaag caaacacaca ctgcagtgtg ccctagttta aattcatctt ctgtattcca gccaaatcct gacaatcata gtgtaaatga
1401 tgagaaatgc attttggatg aacaggaaac tgtactttct aatgagattt ccacacttag agtcaatttc aacacatcag ttcaaaaca
1501 aaacaagaca ctcataaaat atttggaaaa gaacttaatg gtaaccagtt aatggaaaaa agagaaactg aaggcaaaag cagcaaaagg aactactact
1601 ctagagggtc ccgttctatt ccagggtgtg ctatagatgg agagaacaac atgaggcagt caccccaac agttttctcc ttgccagcta actgcgattg
1701 gaaaccgggg tggctttag ctacatgggg ttctctaca gaacatgaaa accgggggtc acctcctaaa ggtaacctca agggccagtt cagaaaagggc
1801 acagtccagaa ccttctctcc ttcaacaagg gatttcaat cacttgacat tccaaacact gctgattctt tgggagggtc gtcttttag ccagggttg
1901 tcagaacctg taataatcct gtttgtctc caaatcactg agtgtcccta acgaacaatc tcaattgtag gcgggttccc acagatcttc agatctaagg
2001  cgcgcagta tactctagag tcgacacccg gggaattcct cgagcgctcg tctctagctt ggcgtaatca tgggtcatagc tgtttcctgt gtgaaattgt
2101 tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa agcctggggt gcctaatagag tgagctaact cacattaatt gcgttgccgt
2201 cactgccgcg tttccagtcg ggaacactgt cgtgccagct gcattaatga atcgcccaac gcgcggggag aggcgggttg cgtattgggc gctcttccgc
2301 ttctctgctc actgactcgc tgcgtcgggt cgttcggctg cggcgagcgg tatcacgtca ctcaaaggcg gtaatacggg taatccacaga atcaggggat
2401 aacgcaggaa agaacatgtg agcaaaaggc cagcaaaagg ccaggaaccg taaaaaggcc gcgttgctcg cgtttttcca taggctccgc cccctgacg
2501 agcatcacaa aaatcgacgc tcaagtca gaagtcacgt gtcgccttt cccgacagga ctataaagat accaggcgtt tccccctgga agctccctcg tgcgtctcc
2601 tgttccgctc ctgcccgtta ccggatacct gtccgccttt ctccttccgg gacacacttg cctttctcaa tgctcacgtc gtaggtatct cagtctggtg
2701 taggtcgttc gtcctaacgt gggctgtgtg caagacccc cgtttcagcc cgaccgctgc gccttatccg gtaactatcg tcttgagtc aacccggtaa
2801 gacacgactt atcgccactg gcagcagcca ctggtaacag gattagcaga gacacttggc gcgaggtatg taggcggtgc tacagagttc ttgaagtggg ggcctaacta
2901 cggtacactc agaaggacag tatttggtat ctgcgtctcg ctgaagccag ttaacttcgg aaaaagagtt gatccggcaa acaaaaccac catcagggat
3001 gctggtagcg gtggtttttt tgtttgcaag cagcagatta cgcgagaaa aaaagatct caagaagatc ctttgatctt ttctacgggg tctgacgctc
3101 agtggaacga aaactcacgt taagggattt tgggtcatgag attatcaaaa aggatcttca cctagatcct tttaaattaa aaatgaagtt ttaaataca
3201 ctaaagtata tatgagtaaa cttggtctga cagttaccaa tgcctaatca gtgagcgacc tatctcagcg atctgtctat ttcgttcac catagttgcc
3301 tgactccccg tcgtgtagat aactacgata cgggaggcct taccatctgg cccagtgct gcaatgatac cgcgagaccc acgctcacc gctccagatt
3401 tatcagcaat aaaccagcca gccggaaggg ccgagcgcag aagtgtctct gcaactttat ccgcctccat ccagtcatt aattgttgc gggagctag
3501 agtaagtatg tcgccagtta atagtttgcg caacgttgtt gccattgcta caggcatcgt ggtgtcacgc tcgtctgttg gtaggtctc attcagctcc
3601 ggttcccaac gatcaaggcg agttacatga tccccatgt tgtgcaaaaa agcggttagc tcttctcggt cctcgatcgt tgtcagaagt aagttggcgc
3701 cagtgcttcc actcatggtt atggcagcac tgcataattc tcttactgtc atgccatccg taagatgctt taagtgtact ggtgagtact caaccaagtc
3801 attctgagaa tagtgtatgc ggcgaccgag ttgctcttgc ccggcgctca taaggataa taccgcgcca catagcagaa ctttaaaagt gctcatcatt
3901 ggaaaaacgtt cttcggggcg aaaactctca aggatcttac cgtggttag atccagttcg atgtaaccca ctctgcacc caactgatct tcagcatctt
4001 ttactttcac cagcttttct gggtagcaca aaacaggaag gcaaaaaggc gaataagggc gacacggaaa ttggaatac tcttgatctt
4101 cctttttcaa tattattgaa gcatttatca ggggtttatt cctatgagcg gatacatatt tgaatgtatt tagaaaaata acaaaatagg ggttcgcgc
4201 acatttcccc gaaaagtgc acctgacgtc taagaaacca ttattatcat gacattaacc tataaaaaa ggcgtatcac gaggcccttt cgtc
```

> RDC1025 Translated Insert Sequence

```
1   mgdwnllgdt leevhvhst igkiwltilf ifrmlvlvga aedvwndeqs gficnteqpg crnvcydqaf pislirywvl qvifvsspsl vymghalyrl
101  rvleeerqrm kaqlrvelee vefemprdr rleqelcqle krklmkaplr gtlletyvi hiftrsvvev fmiggyllly fhleplfkch ghpcpniidc
201  fvsrptekti flflmqsiat islflnilei fhlgfkikr glwgkyklkk ehnefhanka kqnvakyqst sanslklrps apdynllvek qthtavypsl
301  nsssvfqpnp dnhsvndekc ildeqetvls neistlstc sfhfhisnkn nkdkthkifg elngnqlmek retegkdsr nyysrghrsi pgvaidgenn
401  mrqspqtvfs lpancdwkp wlratwgsst ehenrgspk gnlkgqfrkg tvrtlppsqg dsqslidpnt adslglsfse pglvrtcnnp vcppnhvvs1
501  tnnligrrvp tdlqi
```