

Product datasheet for **RR207122**

Gja4 (NM_021654) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gja4 (NM_021654) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gja4
Synonyms:	CXN37
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR207122 representing NM_021654 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGTGACTGGGCTTCTCGGAGAAGCTGCTAGACCAGGTCCAGGAGCACTCGACCGTGGTGGCAAGA
TCTGGTTAACGGTCTTTCATCTCCGAATCCTCATCCTGGGCCTGGCTGGTGGTGGGCGCA
CGAGCAGTCTGATTTGGAATGTAACACAGCCAGCCAGGCTGCACCAATGTGTGCTATGACCAGGCTTTC
CCCATCTCCACATCCGATACTGGGTGCTGAGTTCTCTTCGTGAGCACACCCACCTGATCTACCTGG
GCCACGTCAATTTACCTGTCTCGGCGGAAGAACGGTTGCGGCAGAAAGAGGGAGAGCTTCGGGCACTGCC
ATCCAAGGACCTCATGTAGAGCGGGCACTAGCAGCCATAGAATCAGATGGCCAAGATCTCGGTGGCA
GAGGACGGTCTGCTTCGATTTCGAGGGGCGCTCATGGGTACCTACGTGATCAGTGTGCTGTGAAGAGTG
TGCTGGAGGCAGGCTTCTCTATGGCCAGTGGCGTCTCTACGGCTGGACCATGGAGCCGGTGTGGTG
CCAGCGTGGCCCTGCCCCACGTGCTGGACTGCTACGCTCTCGACCCACCGAGAAGACCATCTTCATC
ATTTTCATGTTGGTGGTAGGGTTCATCTCCTTGGTGTCAACCTACTGGAGCTGGTGCACCTGTTGTGCC
GCTGTGTCAGCCGGGAGATAAAGGCACGGAGGACCATGACACCCCGGCTCAGGGCAGTGCCTCAGA
CCCTTACCCTGAACAGGTTTTCTTCTACCTCCCATGGGCGAGGGACCCTCGTCCCACCGTGTCCACC
TACAATGGGCTCTCATCCACTGAGCAAACTGGGCAATTTGACCACCGAGGAGAGACTGACCTCTACCA
GACCTCCCCATTTGTAATGCAGCCCCCAGGGTGGCCAGAAGTCTCTAGCCGCCCAACAGCTCTGC
ATCCAAGAAGCAGTATGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR207122 representing NM_021654
Red=Cloning site Green=Tags(s)

MGDWGFLEKLLDQVQEHSTVVGKIWLTVLFIFRILILGLAGESVWGDEQSDFECNTAQPGCTNVCYDQAF
 PISHIRYWVLQFLVSTPTLIYLGHVIYLSRREERLRQKEGELRALPSKDPHVERALAAIEHQMAKISVA
 EDGRLRIRGALMGTYVISVLCCKSVLEAGFLYGQWRLYGWTMEPVFVCQRAPCPHVVDCCYVSRPTEKTIFI
 IFMLVVGVISLVLNLELVHLLCRCVRSREIKARRDHDTRPAQGSASDPYEQVFFYLPMGEGPSSPPCPT
 YNGLSSTEQNWANLTTEERLTSTRPPPFVNAAPQGGQKSSSRPNSSASKKQYV

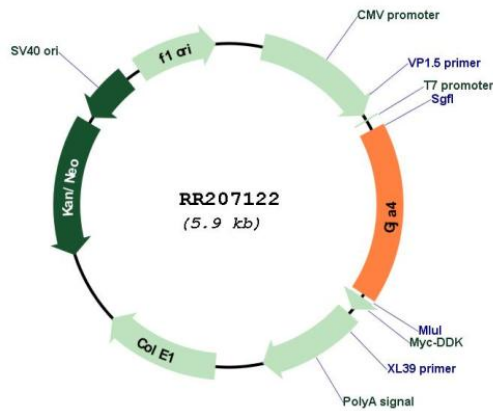
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_021654

ORF Size: 999 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_021654.2 , NP_067686.1
RefSeq Size:	1617 bp
RefSeq ORF:	1002 bp
Locus ID:	25655
UniProt ID:	Q03190
Cytogenetics:	5q36
MW:	37.6 kDa
Gene Summary:	gap junction protein that mediates cell-cell communication; may mediate hyperexcitability following nerve injury [RGD, Feb 2006]