

Product datasheet for MR204914

Gja4 (NM_008120) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gja4 (NM_008120) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gja4
Synonyms:	AU020209; AW558810; Cnx37; Cx37; Gja-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204914 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGACTGGGGCTTCCTGGAGAAGTTGCTAGACCAGGTCCAGGAACACTCGACCGTGGTGGCAAGA
TCTGGTTAACGGTGTCTTCATCTTCCGCATCCTCATCTGGGGCTGGCTGGCGAGTCGGTGTGGGGCGA
CGAGCAGTCTGATTTTGAGTGTAACACAGCCCAGCCGGGCTGCACCAACGTCTGCTATGACCAGGCCTTC
CCCATCTCCACATCCGATACTGGGTGCTGCAGTTCCTCTTCGTCAGCACACCCACCTGATCTACCTGG
GCCATGTCATCTACCTGTCTCGGCGGAAGAGCGGTTGCGGCAGAAAGAGGGAGAGCTCCGGGCGCTGCC
ATCCAAGGACCTACATGTAGAGCGGGCACTGGCTGCCATCGAACATCAGATGGCCAAGATCTCGGTGGCA
GAGGACGGTCTTTCGGATTCTGTGGGGCGCTCATGGGTACCTATGTGGTCAGCGTGTGTAAAGAGTG
TGCTGGAGGCAGGCTTCCTCTATGGCCAGTGGCGCCTCTATGGCTGGACCATGGAGCCGGTGTGGTGTG
CCAGCGTGCACCCCTGCCCCACATCGTGGACTGCTATGTCTCTCGACCCACTGAGAAGACTATCTTCATC
ATCTTCATGCTGGTGGTAGGAGTCATCTCCCTGGTGTCAACCTGCTGGAGTGGTTCACCTGCTGTGTC
GGTGTGTCAGCCGGGAGATAAAGGCACGAAGGGACCAGGACGCCCGCCCGCCAGGGCAGTGCCTCAGA
CCCTTACCCTGAACAGGTTTTCTTCTACCTCCCCATGGGCGAGGGACCTCTTCCCCACCGTGTCCCACC
TACAACGGGCTCTCATCCACTGAGCAGAACTGGGCCAACTTGACCACAGAGGAGAGACTGACCTCTTCCA
GACCTCCCCATTGTAAACACAGCTCCCCAGGGTGGCCGAAAGTCCCCTAGCCGCCCAACAGCTCTGC
ATCCAAGAAGCAGTATGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204914 protein sequence
Red=Cloning site Green=Tags(s)

MGDWGFLEKLLDQVQEHSTVVGKIWLTVLFIFRILILGLAGESVWGDEQSDFECNTAQP GCTNVCYDQAF
 PISHIRYWVLQFLFVSTPTLIYLGHVIYLSRREERLRQKEGELRALPSKDLHVERALAAIEHQMAKISVA
 EDGRLRIRGALMGTYVSVLCKSVLEAGFLYGQWRLYGWTMEPVFVCQRAPCPHIVDCYVSRPTEKIFII
 IFMLVVGVISLVNLLELVHLLCRCVSRREIKARRDQDARPAQGSASDPYPEQVFFYLPMGEGPSSPPCPT
 YNGLSSTEQNWANLTTEERLTSSRPPFVNTAPQGGRKSPSRPNSSASKKQYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008120

ORF Size: 1002 bp

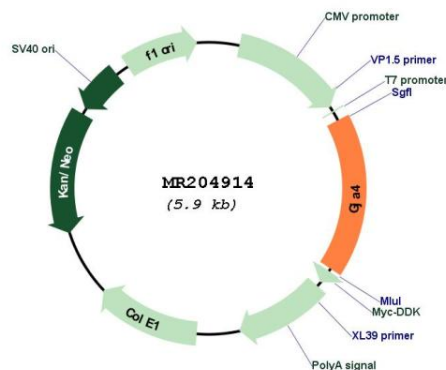
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_008120.1 , NM_008120.2 , NM_008120.3 , NP_032146.1
RefSeq Size:	1686 bp
RefSeq ORF:	1002 bp
Locus ID:	14612
UniProt ID:	P28235
Cytogenetics:	4 61.47 cM
MW:	37.6 kDa
Gene Summary:	One gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204914