

Product datasheet for **MG204914**

Gja4 (NM_008120) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gja4 (NM_008120) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gja4
Synonyms:	AU020209; AW558810; Cnx37; Cx37; Gja-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204914 representing NM_008120 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGACTGGGGCTTCTGGAGAAGTTGCTAGACCAGGTCCAGGAACACTCGACCGTGGTGGCAAGA
TCTGGTTAACGGTGCTCTTCATCTCCGCATCCTCATCTGGGGCTGGCTGGCGAGTCGGTGTGGGGCGA
CGAGCAGTCTGATTTTGGAGTGAACACAGCCCAGCCGGGCTGCACCAACGTCTGCTATGACCAGGCCTTC
CCCATCTCCACATCCGATACTGGGTGCTGCAGTTCCTCTTCGTCAGCACACCCACCTGATCTACCTGG
GCCATGTCATCTACCTGTCTCGGCGGAAGAGCGGTTGCGGCAGAAAGAGGGAGAGCTCCGGGCGCTGCC
ATCCAAGGACCTACATGTAGAGCGGGCACTGGCTGCCATCGAACATCAGATGGCCAAGATCTCGGTGGCA
GAGGACGGTCTTCGATTTCGTGGGGCGCTCATGGGTACCTATGTGGTCAAGCTGTGTAAAGAGTG
TGCTGGAGGCAGGCTTCTCTATGGCCAGTGGCGCCTCTATGGCTGGACCATGGAGCCGGTGTGGTGTG
CCAGCGTGCACCCGCCCCACATCGTGGACTGCTATGTCTCTCGACCCACTGAGAAGACTATCTTCATC
ATCTTCATGCTGGTGGTAGGAGTCATCTCCCTGGTGTCAACCTGCTGGAGCTGGTTCACCTGCTGTGTC
GGTGTGTCAGCCGGGAGATAAAGGCACGAAGGGACCAGGACGCCCGCCCGCCAGGGCAGTGCCTCAGA
CCCTTACCCTGAACAGGTTTTCTTCTACCTCCCCATGGGCGAGGGACCTCTTCCCACCGTGTCCCACC
TACAACGGGCTCTCATCCACTGAGCAGAAGTGGCCAACCTTGACCACAGAGGAGAGACTGACCTCTTCCA
GACCTCCCCATTGTAAACACAGCTCCCAGGGTGGCCGAAAGTCCCCTAGCCGCCCAACAGCTCTGC
ATCCAAGAAGCAGTATGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204914 representing NM_008120
 Red=Cloning site Green=Tags(s)

MGDWGFLEKLLDQVQEHSTVVGKIWLTVLFI FRILILGLAGESVWGDEQSDFE CNTAQP GCNTNVCYDQAF
 PISHIRYWVLQFLFVSTPTLIYLGHVIYLSRREERLRQKEGELRALPSKDLHVERALAAIEHQMAKISVA
 EDGRLRIRGALMGTYVSVLCKSVLEAGFLYQWRLYGMTMEPVFVCQRAPCPHIVDCYVSRPTEKTIFI
 IFMLVVGVISLVNLLELVHLLCRCVSRREIKARRDQDARPAQGSASDPYPEQVFFYLPMGEGPSSPPCPT
 YNGLSSTEQNWANLTTEERLTSSRPPFVNTAPQGGKSPSRPNSSASKKQYV

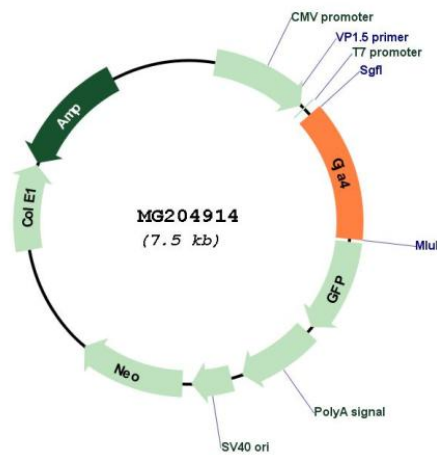
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008120

ORF Size: 999 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_008120.2, NP_032146.1</p>
RefSeq Size:	<p>1633 bp</p>
RefSeq ORF:	<p>1002 bp</p>
Locus ID:	<p>14612</p>
UniProt ID:	<p>P28235</p>
Cytogenetics:	<p>4 61.47 cM</p>
Gene Summary:	<p>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]</p>