

## Product datasheet for **MR218273**

### **Gja8 (NM\_008123) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gja8 (NM_008123) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gja8
Synonyms:	Aey5; Cnx50; Cx50; Lop10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR218273 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGCGACTGGAGTTTCTGGAAACATCTTGAAGAGGTGAATGAGCACTCCACTGTGCATCGGCAGAG  
 TCTGGCTCACAGTGTCTTCATCTTCCGCATCCTCATCCTCGGGACAGCAGCGGAGTTTGTGTGGGCGA  
 TGAGCAATCTGATTTTGTATGCAACACCCAGCAGCCAGGCTGTGAGAATGTCTGTACTGATGAGGCCTTT  
 CCCATCTCACACATCCGCCTCTGGGTGCTGCAGATCATCTTCGTCTCCACTCCATCGCTGATGTACGTGG  
 GGCACGCGGTACACCAGTTTCGCATGGAGGAGAAGCGAAAGGACCGTGAAGCTGAGGAGCTCTGTACGA  
 GTCGCGCAGCAACGGGGGTGAGAGGTTACCAATCGCCCCAGACCAGGCCAGCATCCGGAAGAGCAGCAGC  
 AGTAGCAAAGGCACCAAGAAGTTCGGCTGGAGGGCACACTGCTAAGGACCTATGTCTGCCACATCATCT  
 TCAAGACCCTCTTTGAGGTGGGCTTCATCGTGGGCCATTACTTCCTGTATGGTTTCCGCATCCTGCCCT  
 CTATCGCTGCAGCCGGTGGCCCTGCCCAATGTGGTAGACTGCTTTGTATCCCGGCTACTGAGAAGACC  
 ATCTTCATCCTCTTCATGTTATCAGTCGCTTTTGTGTCACCTTCTCAACATCATGGAGATGAGCCACC  
 TGGGCATGAAAGGAATCCGGTCTGCCTTCAAGAGGCTGTAGAGCAACCACTGGGGGAGATTGCTGAGAA  
 GTCCCTCCACTCCATTGCAGTTTCTCCATCCAGAAAGCCAAGGGCTACCAGTTCTAGAAGAAGAGAAG  
 ATCGTATCACACTATTTCCCTTTGACAGAGGTTGGAATGGTGGAGACCAGCCCTTTTCGGCCAAGCCTT  
 TTAGTCAGTTTGGAGAGAAGATCGGCACAGGACCCTGGCAGATATGTCACGGAGTTACCAAGAAACCT  
 GCCTTCTTATGCTCAGGTGGGGTCCAGGAAGTGGAGCGGAAGAGCCGCTATAGAAGAGGCTGTGAA  
 CCGGAAGTGGGAGAGAAGAAGCAAGAAGCAGAGAAGGTGGCCCCAGAAGGGCAGGAGACAGTTGCAGTGC  
 CAGACAGGGAGAGAGTAGAGACCCTGGAGTGGGGAAGGAGGATGAGAAAGAAGAGCTGCAAGCTGAAAA  
 GGTAACCAAGCAAGGGCTGTCTGCTGAGAAGGCACCCTCACTCTGTCCGGAGCTGACAACCGATGACAAT  
 CGGCCCTTGAGCAGGCTGAGTAAAGCCAGCAGCAGGGCCAGGTCAGATGATCTCACCATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR218273 protein sequence  
 Red=Cloning site Green=Tags(s)

MGDWSFLGNILEEVNEHSTVIGRVWLTVLFIFRILILGTAAEFVWGDEQSDFCVNTQQPGCENVCYDEAF  
 PISHIRLWVLIIFVSTPSLMYVGHAVHHVRMEEKRKDREAEEELCQQSRNNGGERVPIAPDQASIRKSSS  
 SSKGTTKFRLEGTLLRITYVCHIIFKTLFEVGFIVGHYFLYGFRIPLPYRCSRWPENNVDFVSRPTEKT  
 IFILFMLSVAFVSLFLNIMEMSHLGMKGIKRSFAKRPVEQPLGEIAEKSLHSIAVSSIQKAKGYQLLEEEK  
 IVSHYFPLTEVGMVETSPLSAKPFQFEKIGTGPLADMSRSYQETLPSYAQVGVQEVEREPPIEEAVE  
 PEVGEKKQEAEKVAPEGQETVAVPDRERVETPGVGKEDKEELQAEKVTKQGLSAEKAPSLCPELTTDDN  
 RPLSRLSKASSRARSDDLTI

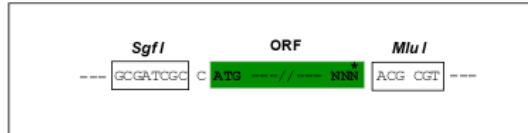
**TR**TRPLE**QKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



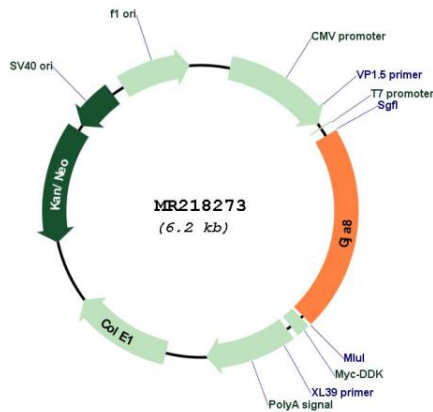
\* The last codon before the Stop codon of the ORF

- ACCN:** NM\_008123
- ORF Size:** 1323 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:**
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\\_008123.3](#), [NP\\_032149.1](#)
- RefSeq Size:** 6989 bp
- RefSeq ORF:** 1323 bp
- Locus ID:** 14616
- UniProt ID:** [P28236](#)
- Cytogenetics:** 3

MW: 49.6 kDa

Gene Summary: Structural component of eye lens gap junctions (PubMed:1325220). Gap junctions are dodecameric channels that connect the cytoplasm of adjoining cells. They are formed by the docking of two hexameric hemichannels, one from each cell membrane (By similarity). Small molecules and ions diffuse from one cell to a neighboring cell via the central pore (PubMed:1325220).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR218273