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Product datasheet for RC216756

GJA3 (NM_021954) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GJA3 (NM_021954) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GJA3
Synonyms:	CTRCT14; CX46; CZP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC216756 representing NM_021954
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCGACTGGAGCTTTCTGGGAAGACTCTTAGAAAATGCACAGGAGCACTCCACGGTCATCGGCAAGG
TTTGGCTGACCGTGCTGTTCATCTTCCGCATCTTGGTGCTGGGGGCCGCGGCGGAGGACGTGTGGGGCGA
TGAGCAGTCAGACTTCACCTGCAACACCCAGCAGCCGGGCTGCGAGAACGTCTGCTACGACAGGGCCTTC
CCCATCTCCCACATCCGCTTCTGGGCGCTGCAGATCATCTTCGTGTCCACGCCCACCCTCATCTACCTGG
GCCACGTGCTGCACATCGTGCGCATGGAAGAGAAGAAGAAAGAGAGGGAGGAGGAGGAGCAGCTGAAGAG
AGAGAGCCCCAGCCCCAAGGAGCCACCGCAGGACAATCCCTCGTCGCGGGACGACCGCGGCAGGGTGCGC
ATGGCCGGGGCGCTGCTGCGGACCTACGTCTTCAACATCATCTTCAAGACGCTGTTCGAGGTGGGCTTCA
TCGCCGGCCAGTACTTTCTGTACGGCTTCGAGCTGAAGCCGCTCTACCGCTGCGACCGCTGGCCCTGCCC
CAACACGGTGGACTGCTTCATCTCCAGGCCCACGGAGAAGACCATCTTCATCATCTTCATGCTGGCGGTG
GCCTGCGCGTCCCTGCTGCTCAACATGCTGGAGATCTACCACCTGGGCTGGAAGAAGCTCAAGCAGGGCG
TGACCAGCCGCCTCGGCCCGGACGCCTCCGAGGCCCCGCTGGGGACAGCCGATCCCCCGCCCCTGCCCCC
CAGCTCCCGGCCGCCCGCCGTTGCCATCGGGTTCCCACCCTACTATGCGCACACCGCTGCGCCCCTGGGA
CAGGCCCGCGCCGTGGGCTACCCCGGGGCCCCGCCACCAGCCGCGGACTTCAAAATGCTAGCCCTGACCG
AGGCGCGCGGAAAGGGCCAGTCCGCCAAGCTCTACAACGGCCACCACCACCTGCTGATGACTGAGCAGAA
CTGGGCCAACCAGGCGGCCGAGCGGCAGCCCCCGGCGCTCAAGGCTTACCCGGCAGCGTCCACGCCTGCA
GCCCCCAGCCCCGTCGGCAGCAGCTCCCCGCCACTCGCGCACGAGGCTGAGGCGGGCGCGGCGCCCCTGC
TGCTGGATGGGAGCGGCAGCAGTCTGGAGGGGAGCGCCCTGGCAGGGACCCCCGAGGAGGAGGAGCAGGC
CGTGACCACCGCGGCCCAGATGCACCAGCCGCCCTTGCCCCTCGGAGACCCAGGTCGGGCCAGCAAGGCC
AGCAGGGCCAGCAGCGGGCGGGCCAGACCGGAGGACTTGGCCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216756 representing NM_021954
Red=Cloning site Green=Tags(s)

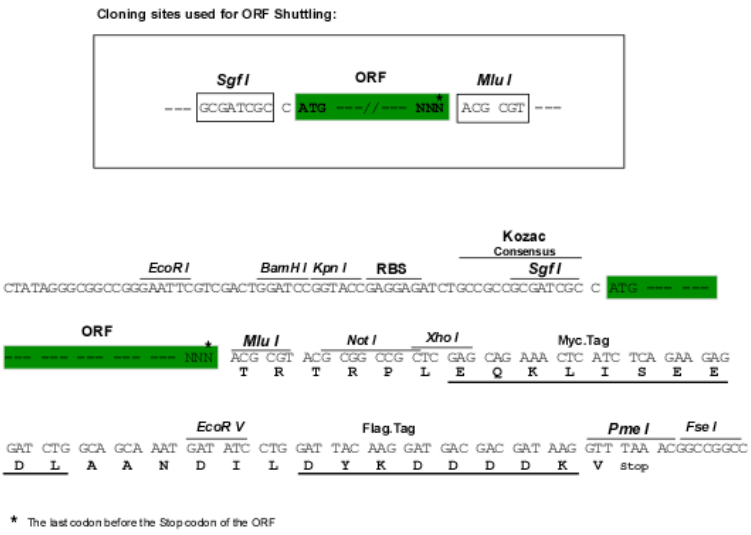
MGDWSFLGRLLENAQEHSTVIGKVWLTVLFIFRILVLGAAAEDVWGDEQSDFTCNTQQPGCENVCYDRAF
PISHIRFWALQIIFVSTPTLIYLGHVLHIVRMEEKKKEREEEEQLKRESPSPKEPPQDNPSSRDDRGRVR
MAGALLRTYVFNIIFKTLFEVGFIAGQYFLYGFELKPLYRCDRWPCPNTVDCFISRPTEKTIFIIFMLAV
ACASLLLNMLEIYHLGWKKLKQGVTSRLGPDASEAPLGTADPPPLPPSSRPPAVAIGFPPYYAHTAAPLG
QARAVGYPGAPPPAADFKMLALTEARGKGQSAKLYNGHHHLLMTEQNWANQAAERQPPALKAYPAASTPA
APSPVGSSSPPLAHEAEAGAAPLLLDGSGSSLEGSALAGTPEEEEQAVTTAAQMHQPPLPLGDPGRASKA
SRASSGRARPEDLAI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6161_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021954

ORF Size: 1305 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_021954.4

RefSeq Size: 1308 bp

RefSeq ORF: 1308 bp

Locus ID: 2700

UniProt ID: Q9Y6H8

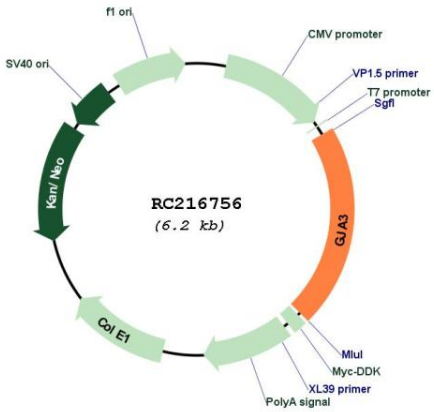
Cytogenetics: 13q12.11

Protein Families: Druggable Genome, Ion Channels: Other, Transmembrane

MW: 47.2 kDa

Gene Summary: The protein encoded by this gene is a connexin and is a component of lens fiber gap junctions. Defects in this gene are a cause of zonular pulverulent cataract type 3 (CZP3). [provided by RefSeq, Jan 2010]

Product images:



Circular map for RC216756