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Product datasheet for SC317049

GJB6 (NM_001110219) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GJB6 (NM_001110219) Human Untagged Clone
Tag:	Tag Free
Symbol:	GJB6
Synonyms:	CX30; DFNA3; DFNA3B; DFNB1B; ECTD2; ED2; EDH; HED; HED2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001110219, the custom clone sequence may differ by one or more nucleotides ATGGATTGGGGGACGCTGCACACTTTCATCGGGGGTGTCAACAAACACTCCACCAGCATC GGGAAGGTGTGGATCACAGTCATCTTTATTTTCCGAGTCATGATCCTCGTGGTGGCTGCC CAGGAAGTGTGGGGTGACGAGCAAGAGGACTTCGTCTGCAACACACTGCAACCGGGATGC AAAAATGTGTGCTATGACCACTTTTTCCCGGTGTCCCACATCCGGCTGTGGGCCCTCCAG CTGATCTTCGTCTCCACCCCAGCGCTGCTGGTGGCCATGCATGTGGCCTACTACAGGCAC GAAACCACTCGCAAGTTCAGGCGAGGAGAGAAGAGGAATGATTTCAAAGACATAGAGGAC ATTAAAAAGCAGAAGGTTCGGATAGAGGGGTCGCTGTGGTGGACGTACACCAGCAGCATC TTTTTCCGAATCATCTTTGAAGCAGCCTTTATGTATGTGTTTTACTTCCTTTACAATGGG TACCACCTGCCCTGGGTGTTGAAATGTGGGATTGACCCCTGCCCCAACCTTGTTGACTGC TTTATTTCTAGGCCAACAGAGAAGACCGTGTTTACCATTTTTATGATTTCTGCGTCTGTG ATTTGCATGCTGCTTAACGTGGCAGAGTTGTGCTACCTGCTGCTGAAAGTGTGTTTTAGG AGATCAAAGAGAGCACAGACGCAAAAAAATCACCCCAATCATGCCCTAAAGGAGAGTAAG CAGAATGAAATGAATGAGCTGATTTCAGATAGTGGTCAAAATGCAATCACAGGTTTCCCA AGC
Restriction Sites:	Please inquire
ACCN:	NM_001110219
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001110219.1, NP_001103689.1
RefSeq Size:	2100 bp
RefSeq ORF:	786 bp
Locus ID:	10804
UniProt ID:	O95452
Cytogenetics:	13q12.11
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	Gap junctions allow the transport of ions and metabolites between the cytoplasm of adjacent cells. They are formed by two hemichannels, made up of six connexin proteins assembled in groups. Each connexin protein has four transmembrane segments, two extracellular loops, a cytoplasmic loop formed between the two inner transmembrane segments, and the N- and C-terminus both being in the cytoplasm. The specificity of the gap junction is determined by which connexin proteins comprise the hemichannel. In the past, connexin protein names were based on their molecular weight, however the new nomenclature uses sequential numbers based on which form (alpha or beta) of the gap junction is present. This gene encodes one of the connexin proteins. Mutations in this gene have been found in some forms of deafness and in some families with hidrotic ectodermal dysplasia. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) represents the longest transcript. All variants encode the same protein.