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Product datasheet for RC222438

Connexin 40.1 (GJD4) (NM_153368) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Connexin 40.1 (GJD4) (NM_153368) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Connexin 40.1
Synonyms:	CX40.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC222438 representing NM_153368
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGGCGTGGACTTGCTAGGGTTTCTCATCATCACATTAAACTGCAACGTGACCATGGTGGGAAAGC
TCTGGTTCGTCCTCACGATGCTGCTGCGGATGCTGGTGATTGTCTTGGCGGGGCGACCCGTCTACCAGGA
CGAGCAGGAGAGGTTTGTCTGCAACACGCTGCAGCCGGGATGCGCCAATGTTTGCTACGACGTCTTCTCC
CCCGTGTCTCACCTGCGGTTCTGGCTGATCCAGGGCGTGTGCGTCCTCCTCCCCTCCGCCGTCTTCAGCG
TCTATGTCCTGCACCGAGGAGCCACGCTCGCCGCGCTGGGCCCCCGCCGCTGCCCCGACCCCCGGGAGCC
GGCCTCCGGGCAGAGACGCTGCCCGCGGCCATTCGGGGAGCGCGGCGGCCTCCAGGTGCCCGACTTTTCG
GCCGGCTACATCATCCACCTCCTCCTCCGGACCCTGCTGGAGGCAGCCTTCGGGGCCTTGCACTACTTTC
TCTTTGGATTCCTGGCCCCGAAGAAGTTCCCTTGCACGCGCCCTCCGTGCACGGGCGTGGTGGACTGCTA
CGTGTCGCGGCCCACAGAGAAGTCCCTGCTGATGCTGTTCCTCTGGGCGGTCAGCGCGCTGTCTTTTCTG
CTGGGCCTCGCCGACCTGGTCTGCAGCCTGCGGCGGCGGATGCGCAGGAGGCCGGGACCCCCCACAAGCC
CCTCCATCCGGAAGCAGAGCGGAGCCTCAGGCCACGCGGAGGGACGCCGGACTGACGAGGAGGGTGGGCG
GGAGGAAGAGGGGGCACCGGCGCCCCCGGGTGCACGCGCCGGAGGGGAGGGGGCTGGCAGCCCCAGGCGT
ACATCCAGGGTGTCAGGGCACACGAAGATTCCGGATGAGGATGAGAGTGAGGTGACATCCTCCGCCAGCG
AAAAGCTGGGCAGACAGCCCCGGGGCAGGCCCCACCGAGAGGCCGCCCAGGACCCCAGGGGCTCAGGATC
CGAGGAGCAGCCCTCAGCAGCCCCCAGCCGCCTGGCCGCGCCCCCTTCCTGCAGCAGCCTGCAGCCCCCT
GACCCGCCTGCCAGCTCCAGTGGTGCTCCCCACCTGAGAGCCAGGAAGTCTGAGTGGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC222438 representing NM_153368
Red=Cloning site Green=Tags(s)

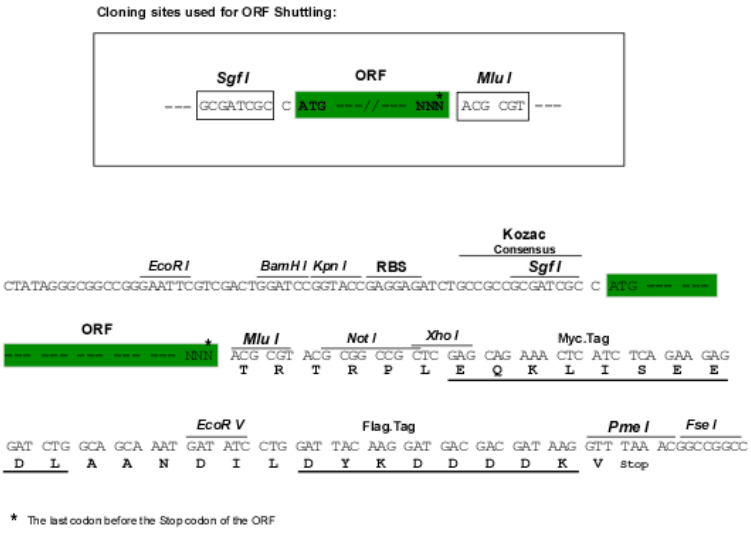
MEGVDLLGFLIITLNCNVTMVGKLWFVLTMLLRMLVIVLAGRPVYQDEQERFVCNTLQPGCANVCYDVFS
PVSHLRFWLIQGVCVLLPSAVFSVYVLHRGATLAALGPRRCPDPREPASGQRRCPRPFGERGGLQVPDFS
AGYIIHLLLRTLLEAAFGALHYFLFGFLAPKKFPCTRPPCTGVVDCYVSRPTEKSLLMLFLWAVSALSFL
LGLADLVCSLRRRMRRRPGPPTSPSIRKQSGASGHAEGRRTDEEGGREEEGAPAPPGARAGGEGAGSPRR
TSRVSGHTKIPDEDESEVTSSASEKLGRQPRGRPHREAAQDPRGSGSEEQPSAAPSRLAAPPSCSSLQPP
DPPASSSGAPHLRARKSEWV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8012_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153368

ORF Size: 1110 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_153368.3

RefSeq Size: 1580 bp

RefSeq ORF: 1113 bp

Locus ID: 219770

UniProt ID: Q96KN9

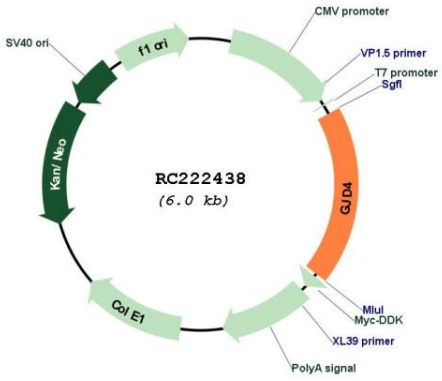
Cytogenetics: 10p11.21

Protein Families: Transmembrane

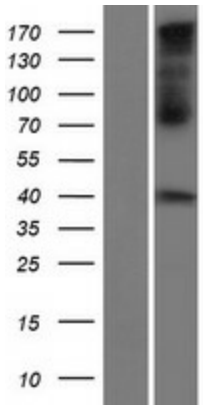
MW: 40 kDa

Gene Summary: Connexins, such as GJD4, are involved in the formation of gap junctions, intercellular conduits that directly connect the cytoplasms of contacting cells. Each gap junction channel is formed by docking of 2 hemichannels, each of which contains 6 connexin subunits (Sohl et al., 2003 [PubMed 12881038]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC222438



Western blot validation of overexpression lysate (Cat# [LY407080]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222438 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).