

Product datasheet for **RG222438**

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:	TurboGFP
Symbol:	GJD4
Synonyms:	CX40.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222438 representing NM_153368 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGGCGTGGACTTGCTAGGGTTTCTCATCATCACATTAAGTGAACGTGACCATGGTGGGAAAGC
TCTGGTTCGTCCTCACGATGCTGCTGCGGATGCTGGTATTGTCTTGGCGGGGCGACCCGCTACCAGGA
CGAGCAGGAGAGGTTTGTCTGCAACACGCTGCAGCCGGATGCGCAATGTTTGTACGACGTCTTCTCC
CCCGTGTCTCACCTGCGGTTCTGGCTGATCCAGGGCGTGTGCGTCTCTCCCTCCGCCGTCTTACGCG
TCTATGTCTGCACCGAGGAGCCAGCTCGCCGCGCTGGGCCCGCGCTGCCCGACCCCGGGAGCC
GGCCTCCGGGCAGAGACGCTGCCCGCGGCCATTGGGGAGCGCGCGGCCCTCCAGGTGCCCGACTTTTCG
GCCGGCTACATCATCCACCTCTCTCCGACCTGCTGGAGGCAGCCTTCGGGGCCTTGCACTACTTTTCT
TCTTTGGATTCTGGCCCGAAGAAGTTCCCTTGACGCGCCCTCCGTGCACGGGCGTGGTGGACTGCTA
CGTGTGCGGGCCACAGAGAAGTCCCTGCTGATGCTGTTCTCTGGGCGGTGCGCGCGCTGCTTTTCTG
CTGGGCCCTCGCCGACCTGGTCTGCAGCTGCGCGCGGGATGCGCAGGAGGCCGGGACCCCAAGCC
CCTCCATCCGGAAGCAGAGCGGAGCCTCAGGCCACGCGGAGGGACGCCGACTGACGAGGAGGGTGGGCG
GGAGGAAGAGGGGGCACCGGCCCGCCCGGGTGCACGCGCCGAGGGGAGGGGGCTGGCAGCCCCAGGCGT
ACATCCAGGGTGTGAGGGCACAGAAGATTCGGATGAGAGTGAGGTGACATCTCCGCCAGCG
AAAAGCTGGGCAGACAGCCCGGGCAGGCCACCAGAGAGGCCCGCCAGGACCCAGGGGCTCAGGATC
CGAGGAGCAGCCCTCAGCAGCCCCAGCCGCTGGCCGCGCCCTTCTGCAGCAGCTGCAGCCCCCT
GACCCGCTGCCAGTCCAGTGGTCTCCACCTGAGAGCCAGGAAGTCTGAGTGGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222438 representing NM_153368
 Red=Cloning site Green=Tags(s)

MEGVDLLGFLIITLNCNVMTMGKLVFVLTMLRMLVIVLAGRPVYQDEQERFVCNTLQPGCANVCYDVFS
 PVSHLRFWLIQGVCVLLPSAVFSVYVLRHGATLAALGPRRCPPREPASGQRRCRPFGERGGLQVPDFS
 AGYIIHLLRLTLEAAFALHYFLFGFLAPKKFPCTRPCTGVVDCYVSRPTEKSLMLFLWAVGALSFL
 LGLADLVCSLRRRMRPPGPTSPSIRKQSGASGHAEGRRTDEEGREEEGAPAPPGARAGGEGAGSPRR
 TSRVSGHTKIPDEDESEVTSSASEKLGRQPRGRPHREAQDPRGSGSEEQPSAAPSRLLAAPPSCSSLQPP
 DPPASSSGAPHLRARKSEWV

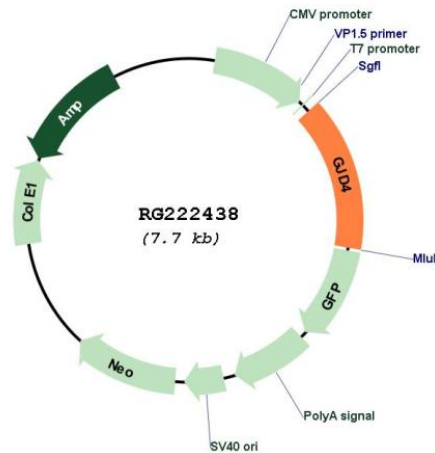
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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:	NM_153368.1 , NP_699199.1
RefSeq Size:	1580 bp
RefSeq ORF:	1113 bp
Locus ID:	219770
UniProt ID:	Q96KN9
Cytogenetics:	10p11.21
Protein Families:	Transmembrane
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]