

Product datasheet for RC223121

CGNL1 (NM_032866) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CGNL1 (NM_032866) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CGNL1
Synonyms:	JACOP; PCING
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223121 representing NM_032866 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTGTATTTTCGGTGAATATCAACATGTGCAGCAGGAATATGGGGTCCATCTGAGACTCGCAAGTG
ATGATACCCAAAAATCAAGGAGTCCCAGAACTCCAAGGCAGGCTCTACGGTGTGAGTATTCGGGTCCA
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CAAAGGAGAACAGTGAAGAACTTCAGCTCCAGAAAACCCATACGCCAGCCTAGCCCAATAAGAAACCT
GAAACAGCCCCTGCTCCATGAGGGCAAGAATGGAGTTCATAGATCGCAAAGACGGGTCTGTGAAGCCATCT
CACCTGCTGAACTTTTCAGAGGCATCCAGAGCTTTTGAACCCATGACCCCTGAAAAGAATGAGTTGAATT
TACAAAATCACCAGCCTTCTGAGAGTAATTGGCTAAAAACGTTGACAGAGAAGGATCAACAATAAGAA
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CAGGATTCAGCGGACCCGTCCTGGATGGAGCTCGGTCGGGAGGTCCTCCTCGTATCCACAACCTCCCA
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AGTAAAAAGGAGGAGGAGGTGAAAAACAGCCACCGCTACGCTGATGTTACAGAACCGGGCAACAGCAACT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223121 representing NM_032866
 Red=Cloning site Green=Tags(s)

MELYFGEYQHVQQEYGVHLRLASDDTQKSRSSQNSKAGSYGVSIRVQGDGHPYIVLNNTERCLAGTSFS
 ENGPFPVPPVINNPLHSSNGSVPKENSEELQLPENPYAQPSPIRNLKQPLLHEGKNGVDRKDGSVKPS
 HLLNFQRHPELLQPYDPEKNELNLQNHQPSESNWLKTLTEGINNKKPWTFCFKPSNSQPTSPSLEDPAK
 SGVTAIRLCSVVIEDPKKQTSVCVNVQSTKERVGEEALFTSGRPLTAHSPHAHPETKKTRPDVLPFRR
 QDSAGPVLGDARSRRSSSSTTPTANSLYRFLLDQCEAIHADNVNRHENRRYIPFLPGTGRDIDTGS
 PGVDQLIEKFDQKPLQRRGRSGKRNRINTDDRKRSRVDSAFPFGQLQGNSEYLIEFSRNLGKSSSEHLLR
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 SKKEEEVKTATATLMLQNRATATSPDSGAKKISVKTFFPSASNTQATPDLKGGQELTQQTNEETAKQILY
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 QLEVKNNQNIKEERERMRANLEELRSQHNEKVEENSTLQQRLEESEGELRKNLEELFQVKMEREQHQTEI
 RDLQDQLSEMHDLDKARSEDREKALIEELLQAKQDLQDLLIAKEEQEDLLRKRERELTALKGALKEE
 VSHDQEMDKLKEQYDAELQALRESVEEATKNVEVLASRSNTSEQDQAGTEMRVKLLQEENEKLQGRSEE
 LERRVAQLQRQIEDLKGDEAKAKETLKKYEGEIRQLLEEALVHARKEEKEAVSARRALENELEAAQGNLSQ
 TTQEQLSEKLEESEKQLRRLKNEMENERWHLGKTIEKLQKEMADIVEASRTSTLELQNLDEYKE
 KNRRELAEMQRQLKEKTLEAEKSRLLTAMKMQDEMRLMEEELRDYQRAQDEALTKRQLLEQLTKDLEYELE
 AKSHLKDDRSRLVKQMEDKVSQLEMELEEEERNNSDLLSERISRSREQMEQLRNELLQERAARQDLECDKI
 SLERQNKDLKSRIIHLEGSYRSSKEGLVQMEARIAELEDRLSEERDRANLQLSNRRLERKVKELVMQV
 DDEHLSLTDQKQDLSRLKAMKRQVEEAEIEIDRLSSKKLQRELEEQMDMNEHLQGLNSMKKDLRLK
 KLPSKVLDDMDDDDLDSTGGSLYEAPVSYTFKSDSTVASQI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6821_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032866

ORF Size: 3906 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_032866.5](#)

RefSeq Size: 7235 bp

RefSeq ORF: 3909 bp

Locus ID: 84952

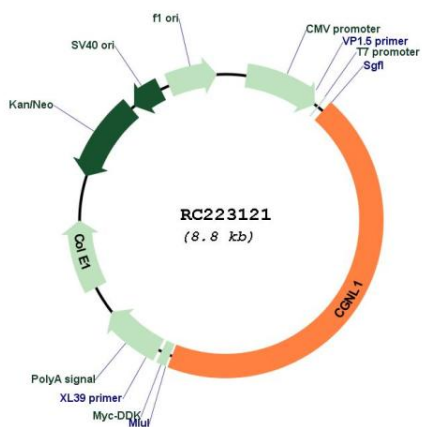
UniProt ID: [Q0VF96](#)

Cytogenetics: 15q21.3

MW: 148.9 kDa

Gene Summary: This gene encodes a member of the cingulin family. The encoded protein localizes to both adherens and tight cell-cell junctions and mediates junction assembly and maintenance by regulating the activity of the small GTPases RhoA and Rac1. Heterozygous chromosomal rearrangements resulting in association of the promoter for this gene with the aromatase gene are a cause of aromatase excess syndrome. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RC223121