

Product datasheet for **SC315346**

CGNL1 (NM_032866) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CGNL1 (NM_032866) Human Untagged Clone
Tag:	Tag Free
Symbol:	CGNL1
Synonyms:	JACOP; PCING
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315346 representing NM_032866. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
ATGGAGCTGTATTTTCGGTGAATATCAACATGTGCAGCAGGAATATGGGGTCCATCTGAGACTCGCAAGT
GATGATACCCAAAAATCAAGGAGTTCCAGAACTCCAAGGCAGGCTCCTACGGTGTCAAGTATTCGGGTG
CAGGGAATTGATGGTCACCCCTATATTGTCTGAATAACACAGAACGGTGCCTAGCAGGCACATCGTTT
TCTGAAAATGGGCCACCCCTTCCACCTCCAGTGATAAATAACCTGCCTCTACATTCCAGCAATGGTTCT
GTGCCAAAGGAGAACAGTGAAGAACTTCAGCTTCCAGAAAACCCATACGCCACGCTAGCCCAATAAGA
AACCTGAAACAGCCCTGCTCCATGAGGGCAAGAATGGAGTTCTAGATCGCAAAGACGGGTCTGTGAAG
CCATCTCACCTGCTGAACCTTTCAGAGGCATCCAGAGCTTTTGCAACCCTATGACCCTGAAAAAGATGAG
TTGAATTTACAAAATCACCAGCCTTCTGAGAGTAATTGGCTAAAAACGTTGACAGAGAAGGCATCAAC
AATAAGAAGCCTTGACTTGCTTTCCAAACCTAGCAATTCACAGCCTACCAGTCCCTCCTTGGAAGAC
CCGGCCAAATCTGGTGTGACAGCTATTCGTTTATGCAGCTCCGTGGTCATAGAGGACCCAAAAAGCAG
ACCTCAGTGTGTGTAACGTTTCAGAGCTGCACCAAGGAGAGGGTGGGAGAGGAGGCCCTTTTCACTAGC
GGGAGGCCCTGACTGCCACAGCCACATGCCACCCTGAAACCAAGAAAACAGGCCAGATGTTCTT
CCCTTCCGGCGACAGGATTCAGCGGGACCCGTCCTGGATGGAGCTCGGTCCCGGAGGTCTCCTCGTCA
TCCACAACCTCCACGTCAGCCAACTCTTTGTACAGGTTTTTACTGGATGATCAGGAATGTGCCATCCAT
GCCGACAACGTCAATCGTCATGAAAACAGAAGGTATATTCCCTTCTGCCAGGAAGTGGACGGGATATT
GATACAGGATCAATTCCTGGTGTGGATCAGTTAATTGAAAAATTTGATCAAAAACCTGGGCTTCAGAGA
AGAGGAAGGTCTGGGAAGCGAAACAGAATTAATACAGATGACAGGAAAAGATCCAGAAGCGTGGATAGC
GCCTTTCTTTTGGCCTCCAAGGAACTCGGAGTACCTGATTGAATTCAGTAGGAAGTGGGCAAGTCA
AGCGAACACCTCCTCCGGCCTTCCAGGTGTGCCCGCAGCGGCCACTGTCTCAGGAGCGCCGTGGGAAA
CAGAGCGTGGGCCGACCTTTGCAAAGCTGCAGGGAGCAGCGACGGGGCTTCATGTGCCACTCCAGG
CCTCCCCAGCCGAACATAGATGGGAAAGTTCTGAAAACCGAAGGTAGTCAGGAAAGTACAGTGATCCGT
GCGCCCTCCCTTGGTGCACAGAGTAAAAAGGAGGAGGTGAAAACAGCCACCGCTACGCTGATGTTA



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CAGAACCGGGCAACAGCAACTTCGCCTGATTCTGGTGCCAAGAAAATTTCCGTGAAGACATTTCTCTCG
 GCCTCAAACTACTCAGGCCACACCGGATCTCTTAAAGGGCCAGCAAGAGCTCACTCAGCAAACCAATGAG
 GAGACAGCTAAGCAGATTCTCTACAATTACCTCAAAGAAGGAAGCACTGATAATGACGATGCTACTAAA
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 AATAACCAAGCTTGTAATTCCACATCTGAAGTCAAAGATCTATTGGAACAGAAAAGCAAGTTGACCATA
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 CTGGACAGTGCAAAGCGATCGGAGGACAGGGAGAAGGGAGCTCTGATTGAGGAGCTCTTACAGGCAAAA
 CAGGATCTTCAAGATCTGCTGATTGCCAAAGAGGAGCAAGAAGACCTCTTGAGAAAGCGAGAGCGTGAA
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 GAGCAATATGATGCTGAGTTGCAGGCCCTGAGGGAGAGTGGAAGAAGCAACCAAGAATGTCGAGGTC
 TTGGCGAGCAGGAGCAACACTTCAGAGCAAGACCAGGCGGGGACTGAAATGCGCGTGAAGCTTCTGCAG
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 CAGTTAGAGGAGGCCCTTGTGCACGCCAGAAAAGGAAGAAAAGAAAGCTGTGTGAGCCAGAAAGGGCCCTG
 GAGAATGAACTGGAGGCTGCTCAGGGAATCTGAGTCAAGTACCCAGGAGCAGAAGCAGTTGTCTGAG
 AAGCTCAAAGAGGAGAGTGAGCAGAAGGAGCAGCTAAGAAGGTTGAAGAAGAGATGGAGAATGAGCGG
 TGGCACCTGGGCAAAACCATGAGAAATGCAGAAGGAGATGGCAGACATTGTTGAGGCCCTCCGTACC
 TCAACCTGGAGCTCCAGAACCAGCTGGATGAGTATAAGGAGAAAAACCGCAGGGAGCTCGCAGAAATG
 CAAAGACAGTTGAAGGAGAAAACGCTGGAGGCAGAAAAGTCCCGACTGACAGCCATGAAAATGCAGGAT
 GAGATGCGTCTGATGGAGGAAGATTACGGGACTACCAGAGAGCTCAGGATGAAGCACTCAGAAAAGG
 CAGCTTCTGGAGCAGACGCTGAAGGACCTGGAGTATGAGCTGGAAGCCAAGAGTCACCTCAAAGATGAC
 CGCAGCAGGCTGGTCAAGCAGATGGAGGACAAGGTGTCTCAACTGGAGATGGAAGTGAAGAAGAGAGA
 AACAACTCAGATTTGCTGTCTGAGAGGATCAGTAGGAGCAGGGAACAGATGGAGCAGTTGAGGAATGAG
 CTACTTCAGGAGAGAGCTGCGAGACAAGACTTGGAGTGCGACAAGATTTCCCTGGAGAGGCAGAACAAAG
 GACTTAAAGAGCCGATTATCCACCTGGAAGGTTCTACAGGTCCAGCAAAGAGGGGCTGGTTGTGCAG
 ATGGAGGCCAGGATCGCGGAGCTGGAGGACCGCTGGAGAGTGAGGAGAGGGATCGGGCCAATCTTCAG
 CTCAGCAACCGGCGCTGGAGCGGAAAGTGAAGGAGCTGGTGATGCAGGTGGATGATGAGCACCTGTCA
 TTGACTGATCAGAAGGACCAGCTGAGCTTGCCTTTGAAAGCCATGAAGCGGCAGGTGGAGGAGGCTGAG
 GAGGAAATCGACAGACTGGAAGTTCTAAAAAGAAGCTGCAGAGGAGCTGGAGGAGCAGATGGACATG
 AATGAGCATCTGCAGGGGAGCTCAACTCCATGAAGAAGGACTTAAGACTGAAGAAGCTGCCGAGTAAA
 GTGCTGGATGACATGGATGACGACGATGACCTCAGCACGGATGGGGGAAGCCTCTATGAGGCGCCTGTG
 AGCTACACATTCTCAAGGACAGCACCGTCGCCAGCCAGATCTGA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Restriction Sites: Sgfl-MluI
ACCN: NM_032866
Insert Size: 3909 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 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_032866.3
RefSeq Size:	7235 bp
RefSeq ORF:	3909 bp
Locus ID:	84952
UniProt ID:	Q0VF96
Cytogenetics:	15q21.3
MW:	149.1 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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.