OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC214875

CYLN2 (CLIP2) (NM_032421) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYLN2 (CLIP2) (NM_032421) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CLIP2
Synonyms:	CLIP; CLIP-115; CYLN2; WBSCR3; WBSCR4; WSCR3; WSCR4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC214875 representing NM_032421 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGAAGCCCAGCGGCCTGAAGCCCCCCGGCCGTGGGGGGAAGCACTCCAGCCCCATGGGCCGGACAT
CTACTGGGTCAGCTTCATCCTCGGCGGCGGTGGCCGCTAGCTCCAAGGAAGGCTCCCCACTGCACAAACA
GTCATCTGGACCCTCCTCCTCCCCGGCCGCAGCTGCTGCCCCCGAGAAGCCGGGCCCCAAGGCGGCGGAA
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CTGTTGCACTCGGGTCCCCCACCTCCGGACCACCCAGACGCCGCCGAGATCCTGCGGCTACGGGAGCGGC

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TGCTCTCGGCCAGCAAGGAACACCAGAGGGAGAGTGGGGTGCTGCGGGATAAATACGAGAAGGCCCTGAA
GGCCTACCAGGCGGAGGTGGACAAGCTCCGCGCGGCCAACGAGAAGTACGCACAGGAGGTGGCGGGCCTG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214875 representing NM_032421
Red=Cloning site Green=Tags(s)

MQKPSGLKPPGRGGKHSSPMGRTSTGSASSSAAVAASSKEGSPLHKQSSGPSSSPAAAAAPEKPGPKAAE
VGDDFLGDFVVGERVWVNGVKPGVVQYLGETQFAPGQWAGVVLDDPVGKNDGAVGGVRYFECPALQGIFT
RPSKLTRQPTAEGSGSDAHSVESLTAQNLSLHSGTATPPLTSRVIPLRESVLNSSVKTGNESGSNLSDSG
SVKRGEKDLRLGDRVLVGGTKTGVVRYVGETDFAKGEWCGVELDEPLGKNDGAVAGTRYFQCPPKFGLFA
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EKLDVEYRGQAQAIEFLKEQISLAEKKMLDYERLQRAEAQGKQEVESLREKLLVAENRLQAVEALCSSQH
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RLEAELETVSRKTHDASGQLVLISQELLRKERSLNELRVLLLEANRHSPGPERDLSREVHKAEWRIKEQK
LKDDIRGLREKLTGLDKEKSLSDQRRYSLIDPSSAPELLRLQHQLMSTEDALRDALDQAQQVEKLMEAMR
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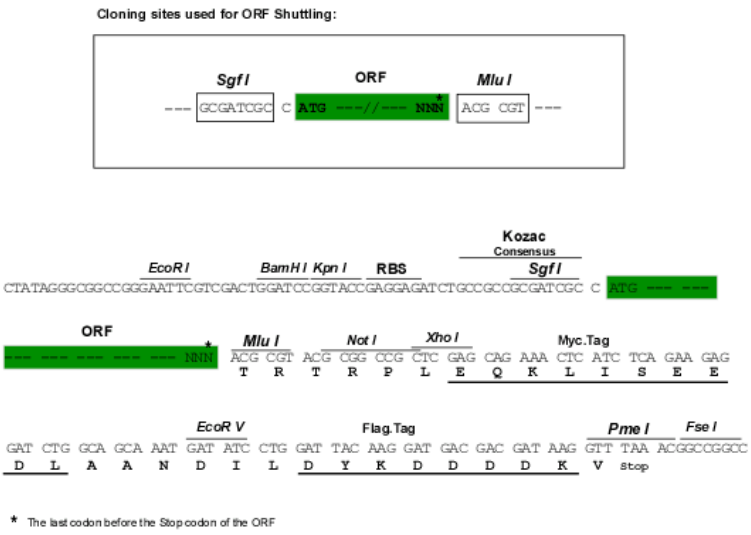
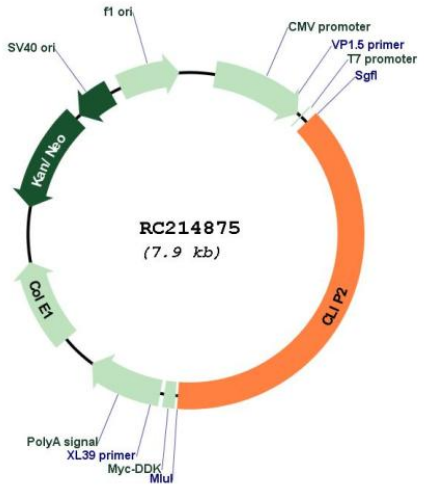
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_032421

ORF Size: 3033 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_032421.2, NP_115797.1
RefSeq Size:	5458 bp
RefSeq ORF:	3036 bp
Locus ID:	7461
UniProt ID:	Q9UDT6
Cytogenetics:	7q11.23
MW:	111.7 kDa
Gene Summary:	The protein encoded by this gene belongs to the family of cytoplasmic linker proteins, which have been proposed to mediate the interaction between specific membranous organelles and microtubules. This protein was found to associate with both microtubules and an organelle called the dendritic lamellar body. This gene is hemizygously deleted in Williams syndrome, a multisystem developmental disorder caused by the deletion of contiguous genes at 7q11.23. Alternative splicing of this gene generates 2 transcript variants. [provided by RefSeq, Jul 2008]