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 RC203015

CYFIP1 (NM_014608) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYFIP1 (NM_014608) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CYFIP1
Synonyms:	P140SRA-1; SHYC; SRA-1; SRA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC203015 representing NM_014608
Red=Cloning site Blue=ORF Green=Tags(s)

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AGGCGCCTGTGCCATGCCGAGAGGAGGAAGGACTTCGTGTCAGAAGCCTACCTGATCACACTGGGCAAAT
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Protein Sequence:

>RC203015 representing NM_014608
Red=Cloning site Green=Tags(s)

MAAQVTLEDALSNVDLLEELPLPDQQPCIEPPPSSLLYQPNFNTNFEDRNAFVTGIARYIEQATVHSSMN
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SMFLANHNKITQSLQQQLEVISGYEELLADIVNLCVDYYENRMYLTPSEKHMLLKVMGFGLYLMDGSVSN
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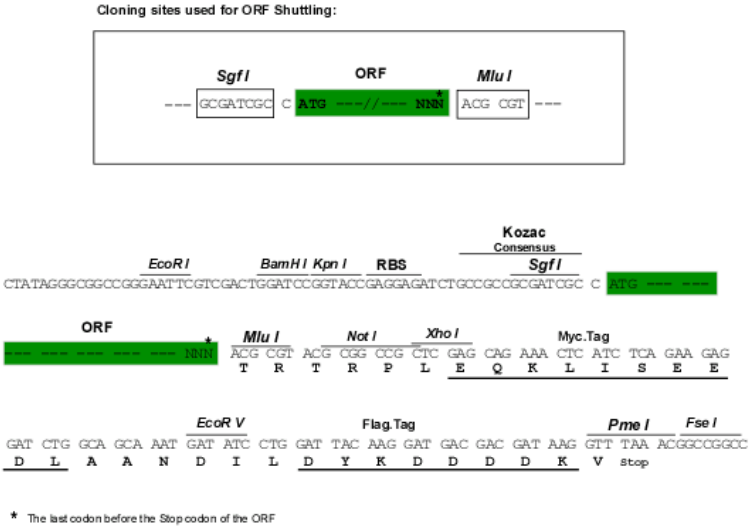
Chromatograms: https://cdn.origene.com/chromatograms/mg3691_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

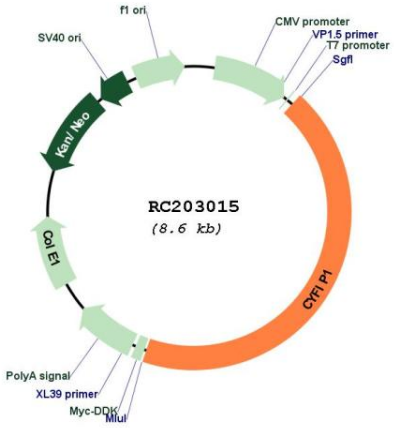


ACCN: NM_014608

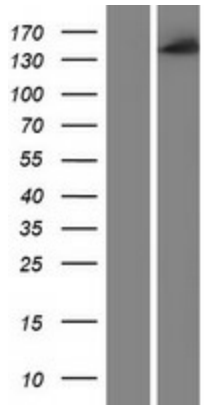
ORF Size: 3759 bp

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_014608.1
RefSeq Size:	4446 bp
RefSeq ORF:	3762 bp
Locus ID:	23191
UniProt ID:	Q7L576
Cytogenetics:	15q11.2
Protein Pathways:	Regulation of actin cytoskeleton
MW:	145 kDa
Gene Summary:	This gene encodes a protein that regulates cytoskeletal dynamics and protein translation. The encoded protein is a component of the WAVE regulatory complex (WRC), which promotes actin polymerization.This protein also interacts with the Fragile X mental retardation protein (FMRP) and translation initiation factor 4E to inhibit protein translation. A large chromosomal deletion including this gene is associated with increased risk of schizophrenia and epilepsy in human patients. Reduced expression of this gene has been observed in various human cancers and the encoded protein may inhibit tumor invasion. [provided by RefSeq, May 2017]

Product images:



Circular map for RC203015



Western blot validation of overexpression lysate (Cat# [LY415162]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203015 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).