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 RC200119

IFT122 (NM_052990) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFT122 (NM_052990) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IFT122
Synonyms:	CED; CED1; FAP80; SPG; WDR10; WDR10p; WDR140
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

```
>RC200119 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGGCCGTGTTGACGTGGAGAGATAAAGCCGAGCACTGTATAAATGACATCGCATTTAAGCCTGATG
GAACTCAACTGATTTTGGCTGCCGGAAGCAGATTACTGGTTTATGACACCTCTGATGGCACCTTACTTCA
GCCCCTCAAGGGACACAAAGACACTGTGTACTGTGTGGCATATGCGAAGGATGGGTTGTGGTCTCCTGAA
CAGAAGTCTGTCTCCAAACACAAATCAAGCAGCAAGATCATCTGCTGCAGCTGGACAAATGATGGTCAGT
ACCTGGCGCTGGGGATGTTCAATGGGATCATCAGCATACGGAACAAAAATGGCGAGGAGAAAGTAAAGAT
CGAGCGGCCGGGGGGCTCCCTCTCGCCAATATGGTCCATCTGCTGGAACCCTTCAAGAGAGGAACGTAAT
GACATCCTGGCTGTGGCTGACTGGGGACAGAAAGTTTCCTTCTACCAGCTGAGTGGAAAACAGATTGGAA
AGGATCGGGCACTGAACTTTGACCCCTGCTGCATCAGCTACTTTACTAAAGGCGAGTACATTTTGCTGGG
GGGTTCAGACAAGCAAGTATCTCTTTTCACCAAGGATGGAGTGCGGCTTGGGACTGTTGGGGAGCAGAAC
TCCTGGGTGTGGACGTGTCAAGCGAAACCGGATTCCAACTATGTGGTGGTCGGCTGCCAGGACGGCACCA
TTTCCTTCTACCAGCTTATTTTCAGCACAGTCCATGGGCTTTACAAGGACCGCTATGCCTACAGGGATAG
CATGACTGACGTCATTGTGCAGCACCTGATCACTGAGCAGAAAGTTCGGATTAAATGCAAAGAGCTTGTC
AAGAAGATTGCCATCTACAGAAATCGATTGGCTATCCAACTGCCAGAGAAAATCCTCATCTATGAGTTGT
ATTCAGAGGACTTATCAGACATGCATTACCGGGTAAAGGAGAAGATTATCAAGAAGTTTGAGTGCAACCT
CCTGGTGGTGTGTGCCAATCACATCATCCTGTGCCAGGAGAAACGGCTGCAGTGCCTGTCCTTCAGCGGA
GTGAAGGAGCGGGAGTGGCAGATGGAGTCTCTCATTCGTTACATCAAGGTGATCGGTGGCCCTCCTGGAA
GAGAAGGCCTCTTAGTGGGGCTGAAGAATGGACAGATCCTGAAGATCTTCGTGGACAATCTCTTTGCTAT
CGTCCTGCTGAAGCAGGCCACAGCTGTGCGCTGCTTGGACATGAGTGCCTCCCGTAAGAAGCTGGCCGTG
GTAGATGAAAATGACACTTGCCTGGTGTATGACATCGACACCAAGGAGCTGCTTTTTCAGGAACCAAACG
CCAACAGTGTAGCTTGGAACACCCAGTGTGAGGACATGCTCTGCTTCTCGGGAGGAGGCTACCTCAACAT
CAAAGCCAGCACCTTCCCTGTGCACCGGCAGAAGCTGCAGGGCTTTGTGGTCGGCTACAATGGCTCCAAG
```

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

View online »

ATCTTCTGCCTCCATGTCTTCTCCATTTCTGCCGTGGAGGTGCCGCAGTCCGCTCCCATGTACCAGTACC
TGGATAGGAAACTGTTCAAGGAAGCCTACCAGATTGCTTGCTTGGGTGTCACAGACACTGATTGGCGTGA
ACTGGCCATGGAAGCGCTAGAAGGTTTAGATTTTGAAACTGCAAAGAAGGCCTTCATCAGAGTACAAGAC
CTCCGATATTTAGAGCTCATCAGCAGCATTGAGGAGAGGAAGAAGCGGGGAGAGACCAACAATGACCTGT
TTCTGGCAGATGTGTTTTCCTACCAGGGGAAGTTCCATGAGGCCGCCAAACTGTACAAGAGGAGTGGGCA
CGAGAACCTCGCGCTTGAAATGTACACCGACCTCTGCATGTTTGAGTATGCCAAGGATTTCCTTGGATCT
GGAGACCCCAAAGAAACAAAGATGCTAATCACCAAACAGGCTGACTGGGCCAGAAATATCAAGGAGCCCA
AAGCCGCCGTGGAGATGTACATCTCAGCAGGAGAGCACGTCAAGGCCATCGAGATCTGTGGTGACCATGG
CTGGGTTGACATGTTGATCGACATCGCCCGCAAACTGGACAAGGCTGAGCGCGAGCCCCTGCTGCTGTGC
GCTACCTACCTCAAGAAGCTGGACAGCCCTGGCTATGCTGCTGAGACCTACCTGAAGATGGGTGACCTCA
AGTCCCTGGTGCAGCTGCACGTGGAGACCCAGCGCTGGGATGAGGCCTTTGCTTTGGGTGAGAAGCATCC
TGAGTTTAAGGATGACATCTACATGCCGTATGCTCAGTGGCTAGCAGAGAACGATCGCTTTGAGGAAGCC
CAGAAAGCGTTCCACAAGGCTGGGCGACAGAGAGAAGCGGTCCAGGTGCTGGAGCAGCTCACAAACAATG
CCGTGGCGGAGAGCAGGTTTAATGATGCTGCCTATTATTACTGGATGCTGTCCATGCAGTGCCTCGATAT
AGCTCAAGCAGATCCTGCCCAGAAGGACACAATGCTTGGCAAGTTCTACCACTTCCAGCGTTTGGCAGAG
CTGTACCATGGTTACCATGCCATCCATCGCCACACGGAAGATCCGTTCAGTGTCCATCGTCCTGAAACTC
TTTTCAACATCTCCAGGTTCCTGCTGCACAGCCTGCCCAAGGACACCCCCTCGGGCATCTCTAAAGTGAA
AATACTCTTCACCTTGGCCAAGCAGAGCAAGGCCCTCGGTGCCTACAGGCTGGCCCGGCACGCCTATGAC
AAGCTGCGTGGCCTGTACATCCCTGCCAGATTCCAAAAGTCCATTGAGCTGGGTACCCTGACCATCCGCG
CCAAGCCCTTCCACGACAGTGAGGAGTTGGTGCCCTTGTGCTACCGCTGCTCCACCAACAACCCGCTGCT
CAACAACCTGGGCAACGTCTGCATCAACTGCCGCCAGCCCTTCATCTTCTCCGCCTCTTCCTACGACGTG
CTACACCTGGTTGAGTTCTACCTGGAGGAAGGGATCACTGATGAAGAAGCCATCTCCCTCATCGACCTGG
AGGTGCTGAGACCCAAGCGGGATGACAGACAGCTAGAGATTGCAAACAACAGCTCCCAGATTCTGCGGCT
AGTGGAGACCAAGGACTCCATCGGAGATGAGGACCCGTTCACAGCTAAGCTGAGCTTTGAGCAAGGTGGC
TCAGAGTTCGTGCCAGTGGTGGTGAGCCGGCTGGTGCTGCGCTCCATGAGCCGCCGGGATGTCCTCATCA
AGCGATGGCCCCCACCCCTGAGGTGGCAATACTTCCGCTCACTGCTGCCTGACGCCTCCATTACCATGTG
CCCCTCCTGCTTCCAGATGTTCCATTCTGAGGACTATGAGTTGCTGGTGCTTCAGCATGGCTGCTGCCCC
TACTGCCGCAGGTGCAAGGATGACCCTGGCCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Protein Sequence:

>RC200119 protein sequence
Red=Cloning site Green=Tags(s)

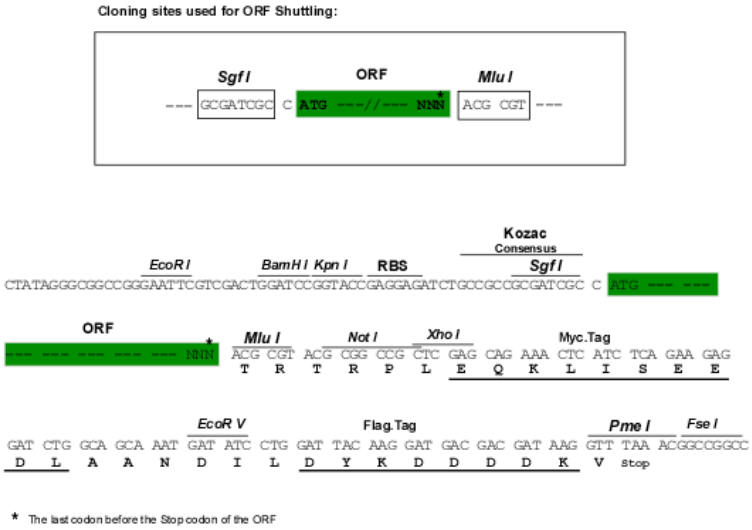
MRAVLTWRDKAEHCINDIAFKPDGTQLILAAGSRLLVYDTSDGTLLQPLKGHKDTVYCVAYAKDGLWSPE
QKSVSKHKSSSKIICCSWTNDGQYLALGMFNGIISIRNKNGEEKVKIERPGGSLSPIWSICWNPSREERN
DILAVADWGQKVSFYQLSGKQIGKDRALNFDPCCISYFTKGEYILLGGSDKQVSLFTKDGVRLGTVGEQN
SWVWTCQAKPDSNYVVVGCQDGTISFYQLIFSTVHGLYKDRYAYRDSMTDVIVQHLITEQKVRIKCKELV
KKIAIYRNRLAIQLPEKILIYELYSEDLSDMHYRVKEKIIKKFECNLLVVCANHIILCQEKRLQCLSFSG
VKEREWQMESLIRYIKVIGGPPGREGLLVGLKNGQILKIFVDNLFAIVLLKQATAVRCLDMSASRKKLAV
VDENDTCLVYDIDTKELLFQEPNANSVAWNTQCEDMLCFSGGGYLNIKASTFPVHRQKLQGFVVGYNGSK
IFCLHVFSISAVEVPQSAPMYQYLDRKLFKEAYQIACLGVTDTDWRELAMEALEGLDFETAKKAFIRVQD
LRYLELISSIEERKKRGETNNDLFLADVFSYQGKFHEAAKLYKRSGHENLALEMYTDLCMFEYAKDFLGS
GDPKETKMLITKQADWARNIKEPKAAVEMYISAGEHVKAIEICGDHGWVDMLIDIARKLDKAEREPLLLC
ATYLKKLDSPGYAAETYLKMGDLKSLVQLHVETQRWDEAFALGEKHPEFKDDIYMPYAQWLAENDRFEEA
QKAFHKAGRQREAVQVLEQLTNNAVAESRFNDAAYYYWMLSMQCLDIAQADPAQKDTMLGKFYHFQRLAE
LYHGYHAIHRHTEDPFSVHRPETLFNISRFLLHSLPKDTPSGISKVKILFTLAKQSKALGAYRLARHAYD
KLRGLYIPARFQKSIELGTLTIRAKPFHDSEELVPLCYRCSTNNPLLNNLGNVCINCRQPFIFSASSYDV
LHLVEFYLEEGITDEEAISLIDLEVLRPKRDDRQLEIANNSSQILRLVETKDSIGDEDPFTAKLSFEQGG
SEFVPVVVSRLVLRSMSRRDVLIKRWPPPLRWQYFRSLLPDASITMCPSCFQMFHSEDYELLVLQHGCCP
YCRRCKDDPGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6582_g11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_052990

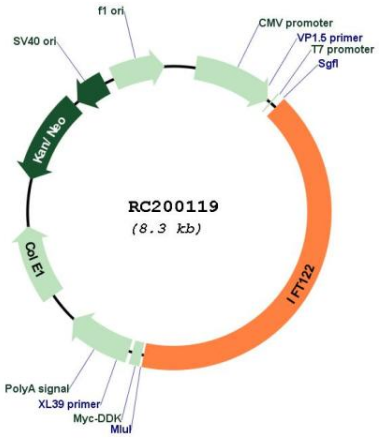
ORF Size: 3393 bp

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

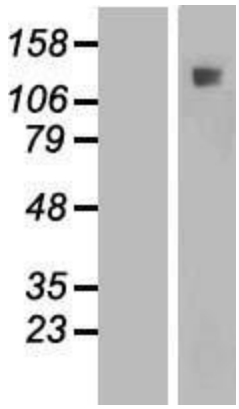
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_052990.3
RefSeq Size:	3933 bp
RefSeq ORF:	3396 bp
Locus ID:	55764
UniProt ID:	Q9HBG6
Cytogenetics:	3q21.3-q22.1
Domains:	WD40
MW:	129.4 kDa
Gene Summary:	This gene encodes a member of the WD repeat protein family. WD repeats are minimally conserved regions of approximately 40 amino acids typically bracketed by gly-his and trp-asp (GH-WD), which may facilitate formation of heterotrimeric or multiprotein complexes. Members of this family are involved in a variety of cellular processes, including cell cycle progression, signal transduction, apoptosis, and gene regulation. This cytoplasmic protein contains seven WD repeats and an AF-2 domain which function by recruiting coregulatory molecules and in transcriptional activation. Mutations in this gene cause cranioectodermal dysplasia-1. A related pseudogene is located on chromosome 3. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Product images:



Circular map for RC200119



Western blot validation of overexpression lysate (Cat# [LY409347]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200119 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US