

## 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGGCCGTGTTGACGTGGAGAGATAAAGCCGAGCACTGTATAAATGACATCGCATTTAAGCCTGATG  
GAACTCAACTGATTTGGCTGCCGAAGCAGATTACTGGTTTATGACACCTCTGATGGCACCTTACTTCA  
GCCCTCAAGGGACACAAAGACTGTGTACTGTGGCATATGCGAAGGATGGGTTGTGGTCTCCTGAA  
CAGAAGTCTGTCCAAACACAAATCAAGCAGCAAGATCATCTGCTGCAGCTGGACAAATGATGGTCAGT  
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GACATCCTGGCTGTGGCTGACTGGGACAGAAAGTTTCTTCTACCAGCTGAGTGAAAAACAGATTGGAA  
AGGATCGGGCACTGAACTTTGACCCCTGCTGCATCAGCTACTTTACTAAAGGCGAGTACATTTTGTGGG  
GGGTTCAAGCAAGTATCTCTTTTCAACAAGGATGGAGTGGCGCTGGGACTGTTGGGGAGCAGAAC  
TCCTGGGTGTGGACGTGTCAAGCGAAACCGATTCCAATATGTGGTGGTGGCTGCCAGGACGGCACCA  
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CATGACTGACGTCAATTGTGCAGCACCTGATCACTGAGCAGAAAAGTTCGGATTAATGCAAGAGCTTGTG  
AAGAAGATTGCCATCTACAGAAAATCGATTGGCTATCCAAGTCCAGAGAAAATCCTCATCTATGAGTTGT  
ATTCAGAGGACTTATCAGACATGCATTACCGGGTAAAGGAGAAGATTATCAAGAAGTTTGTAGTGAACCT  
CCTGGTGGTGTGTGCAATCACATCATCTGTGCCAGGAGAAAACGGCTGCAAGTGCCTGCTTTCAGCGGA  
GTGAAGGAGCGGGAGTGGCAGATGGAGTCTCTCATTTCGTTACATCAAGGTGATCGGTGGCCCTCCTGGAA  
GAGAAGGCCTCTTAGTGGGGCTGAAGAATGGACAGATCCTGAAGATCTTCGTGGACAATCTCTTTGCTAT  
CGTCTGCTGAAGCAGGCCACAGCTGTGCGCTGCTTGGACATGAGTGCCTCCCGTAAGAAGCTGGCCGTG  
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CCAACAGTGTAGCTTGAACACCCAGTGTGAGGACATGCTCTGCTTCTCGGGAGGAGGCTACCTCAACAT  
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ATCTTCTGCCTCCATGTCTTCTCCATTTCTGCCGTGGAGGTGCCGCAGTCCGCTCCCATGTACCAGTACC  
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CTCCGATATTTAGAGCTCATCAGCAGCATTGAGGAGAGGAAGAAGCGGGGAGAGACCAACAATGACCTGT  
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TACTGCCGCAGGTGCAAGGATGACCCTGGCCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC200119 protein sequence  
Red=Cloning site Green=Tags(s)

MRAVL TWRDKAEHCINDIAFKPDGTQLILAAGSRLLVYDTS DGTLLQPLKGHKD TVYCVAYAKDGLWSPE  
 QKSVSKHKSSSKIICCSWTNDGQYLALGMFNIGIISIRNKNGEEKVKIERP GGSLSPIWSICWNPSREERN  
 DILAVADWQGVSYFYQLSGKQIGKDRALNFDPCCI SYFTKGEYILLGSDKQVSLFTKDG VRLGTVGEQN  
 SSWVTCQAKPDSNYVVVGCQDGTISFYQLIFSTVHGLYKDRYAYRDSMTDVIVQH LITEQKVRIKCKELV  
 KKIAIYRNRLAIQLPEKIL IYELYSEDLSDMHYRVKEKIIKKFECNLLVVCANHIILCQE KRLQCLSFSG  
 VKEREWQMESLIRYIKVIGGPPGREGLLVGLKNGQILKIFVDNLF AIVLLKQATAVRCLDMSASRKKLAV  
 VDENDTCLVYDIDTKELLFQEPNANSVAWNTQCEDMLCFSGGGYLN IKA STFPVHRQKLQGFVVG YNGSK  
 IFCLHVFISAVEVPQSAPMYQYLD RKL FKEAYQIACLGVTDTDWRELAMEALEGLDFETAKKAFIRVQD  
 LRYLELISSIEERKKRGETNNDLFLADVFSYQGFHEAAKLYKRSGHENL ALEM YTDLCMFEYAKDFLGS  
 GDPKETKMLITKQADWARNIKEPKAAVEMYISAGEHVKAIEICGDHGWV DMLIDIARKL DKAEREPLLLC  
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 QKAFHKAGRQREAVQVLEQLTNNVAESRFNDAAYYYWMLSMQCLDIAQADPAQKDTMLGKFYHFQRLAE  
 LYHGYHA IHRHTEDPFSVHRPETL FNISRFLHSLPKDTPSGISKVKILFTLAKQSKALGAYRLARHAYD  
 KLRGLYIPARFQKSIELGTLTIRAKPFHDSEELVPLCYRCSTNNPLLNNLGNVCINCRQPFIFSASSYDV  
 LHLVEFYLEEGITDEEAI SLIDLEVL RPKRDDRQLEIANNSSQILRLVETKDSIGDEDPFTAKLSFEQGG  
 SEFVPPVVVSRLLVLRMSRRDVLIKRWPPPLRWQYFRSLLPDASITMCPSCFQMFHSEDEYELLVLVQHGCCP  
 YCRRCKDDPGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6582\\_g11.zip](https://cdn.origene.com/chromatograms/mk6582_g11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

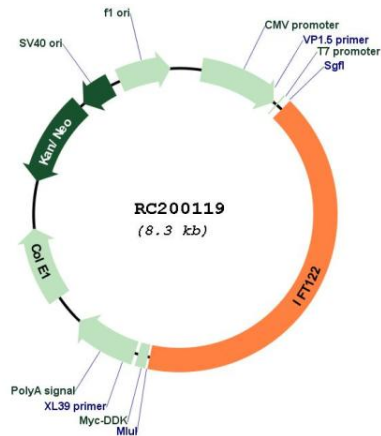


**ACCN:** NM\_052990

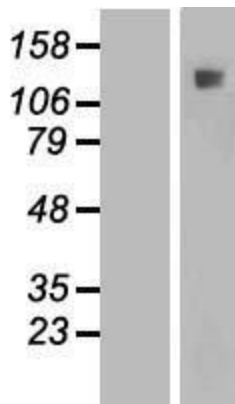
**ORF Size:** 3393 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_052990.3</a>
<b>RefSeq Size:</b>	3933 bp
<b>RefSeq ORF:</b>	3396 bp
<b>Locus ID:</b>	55764
<b>UniProt ID:</b>	<a href="#">Q9HBG6</a>
<b>Cytogenetics:</b>	3q21.3-q22.1
<b>Domains:</b>	WD40
<b>MW:</b>	129.4 kDa
<b>Gene Summary:</b>	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]

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 untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200119 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).