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 RC239899

IFT122 (NM_001280546) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFT122 (NM_001280546) 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:

>RC239899 representing NM_001280546
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCAATGGGATCATCAGCATACGGAACAAAAATGGCGAGGAGAAAGTAAAGATCGAGCGGCCGGGGG
GCTCCCTCTCGCCAATATGGTCCATCTGCTGGAACCCTTCAAGAGAGGAACGTAATGACATCCTGGCTGT
GGCTGACTGGGGACAGAAAGTTTCCTTCTACCAGCTGAGTGGAAAACAGATTGGAAAGGATCGGGCACTG
AACTTTGACCCCTGCTGCATCAGCTACTTTACTAAAGGCGAGTACATTTTGCTGGGGGGTTCAGACAAGC
AAGTATCTCTTTTCACCAAGGATGGAGTGCGGCTTGGGACTGTTGGGGAGCAGAACTCCTGGGTGTGGAC
GTGTCAAGCGAAACCGGATTCCAACTATGTGGTGGTCGGCTGCCAGGACGGCACCATTTCCTTCTACCAG
CTTATTTTCAGCACAGTCCATGGGCTTTACAAGGACCGCTATGCCTACAGGGATAGCATGACTGACGTCA
TTGTGCAGCACCTGATCACTGAGCAGAAAGTTCGGATTAAATGCAAAGAGCTTGTCAAGAAGATTGCCAT
CTACAGAAATCGATTGGCTATCCAACTGCCAGAGAAAATCCTCATCTATGAGTTGTATTCAGAGGACTTA
TCAGACATGCATTACCGGGTAAAGGAGAAGATTATCAAGAAGTTTGAGTGCAACCTCCTGGTGGTGTGTG
CCAATCACATCATCCTGTGCCAGGAGAAACGGCTGCAGTGCCTGTCCTTCAGCGGAGTGAAGGAGCGGGA
GTGGCAGATGGAGTCTCTCATTCGTTACATCAAGGTGATCGGTGGCCCTCCTGGAAGAGAAGGCCTCTTA
GTGGGGCTGAAGAATGGACAGATCCTGAAGATCTTCGTGGACAATCTCTTTGCTATCGTCCTGCTGAAGC
AGGCCACAGCTGTGCGCTGCTTGGACATGAGTGCCTCCCGTAAGAAGCTGGCCGTGGTAGATGAAAATGA
CACTTGCCTGGTGTATGACATCGACACCAAGGAGCTGCTTTTTCAGGAACCAAACGCCAACAGTGTAGCT
TGGAACACCCAGTGTGAGGACATGCTCTGCTTCTCGGGAGGAGGCTACCTCAACATCAAAGCCAGCACCT
TCCCTGTGCACCGGCAGAAGCTGCAGGGCTTTGTGGTCGGCTACAATGGCTCCAAGATCTTCTGCCTCCA
TGTCTTCTCCATTTCTGCCGTGGAGGTGCCGCAGTCCGCTCCCATGTACCAGTACCTGGATAGGAAACTG
TTCAAGGAAGCCTACCAGATTGCTTGCTTGGGTGTCACAGACACTGATTGGCGTGAACTGGCCATGGAAG
CGCTAGAAGGTTTAGATTTTGAAACAGCAAAGAAGGCCTTCATCAGAGTACAAGACCTCCGATATTTAGA
GCTCATCAGCAGCATTGAGGAGAGGAAGAAGCGGGGAGAGACCAACAATGACCTGTTTCTGGCAGATGTG

View online »

TTTTCCTACCAGGGGAAGTTCCATGAGGCCGCCAAACTGTACAAGAGGAGTGGGCACGAGAACCTCGCGC
TTGAAATGTACACCGACCTCTGCATGTTTGAGTATGCCAAGGATTTCCTTGGATCTGGAGACCCCAAAGA
AACAAAGATGCTAATCACCAAACAGGCTGACTGGGCCAGAAATATCAAGGAGCCCAAAGCCGCCGTGGAG
ATGTACATCTCAGCAGGAGAGCACGTCAAGGCCATCGAGATCTGTGGTGACCATGGCTGGGTTGACATGT
TGATCGACATCGCCCGCAAACTGGACAAGGCTGAGCGCGAGCCCCTGCTGCTGTGCGCTACCTACCTCAA
GAAGCTGGACAGCCCTGGCTATGCTGCTGAGACCTACCTGAAGATGGGTGACCTCAAGTCCCTGGTGCAG
CTGCACGTGGAGACCCAGCGCTGGGATGAGGCCTTTGCTTTGGGTGAGAAGCATCCTGAGTTTAAGGATG
ACATCTACATGCCGTATGCTCAGTGGCTAGCAGAGAACGATCGCTTTGAGGAAGCCCAGAAAGCGTTCCA
CAAGGCTGGGCGACAGAGAGAAGCGGTCCAGGTGCTGGAGCAGCTCACAAACAATGCCGTGGCGGAGAGC
AGGTTTAATGATGCTGCCTATTATTACTGGATGCTGTCCATGCAGTGCCTCGATATAGCTCAAGATCCTG
CCCAGAAGGACACAATGCTTGGCAAGTTCTACCACTTCCAGCGTTTGGCAGAGCTGTACCATGGTTACCA
TGCCATCCATCGCCACACGGAAGATCCGTTCAGTGTCCATCGTCCTGAAACTCTTTTCAACATCTCCAGG
TTCCTGCTGCACAGCCTGCCCAAGGACACCCCCTCGGGCATCTCTAAAGTGAAAATACTCTTCACCTTGG
CCAAGCAGAGCAAGGCCCTCGGTGCCTACAGGCTGGCCCGGCACGCCTATGACAAGCTGCGTGGCCTGTA
CATCCCTGCCAGATTCCAAAAGTCCATTGAGCTGGGTACCCTGACCATCCGCGCCAAGCCCTTCCACGAC
AGTGAGGAGTTGGTGCCCTTGTGCTACCGCTGCTCCACCAACAACCCGCTGCTCAACAACCTGGGCAACG
TCTGCATCAACTGCCGCCAGCCCTTCATCTTCTCCGCCTCTTCCTACGACGTGCTACACCTGGTTGAGTT
CTACCTGGAGGAAGGGATCACTGATGAAGAAGCCATCTCCCTCATCGACCTGGAGGTGCTGAGACCCAAG
CGGGATGACAGACAGCTAGAGATTGCAAACAACAGCTCCCAGATTCTGCGGCTAGTGGAGACCAAGGACT
CCATCGGAGATGAGGACCCGTTCACAGCTAAGCTGAGCTTTGAGCAAGGTGGCTCAGAGTTCGTGCCAGT
GGTGGTGAGCCGGCTGGTGCTGCGCTCCATGAGCCGCCGGGATGTCCTCATCAAGCGATGGCCCCCACCC
CTGAGGTGGCAATACTTCCGCTCACTGCTGCCTGACGCCTCCATTACCATGTGCCCCTCCTGCTTCCAGA
TGTTCCATTCTGAGGACTATGAGTTGCTGGTGCTTCAGCATGGCTGCTGCCCCTACTGCCGCAGGTGCAA
GGATGACCCTGGCCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

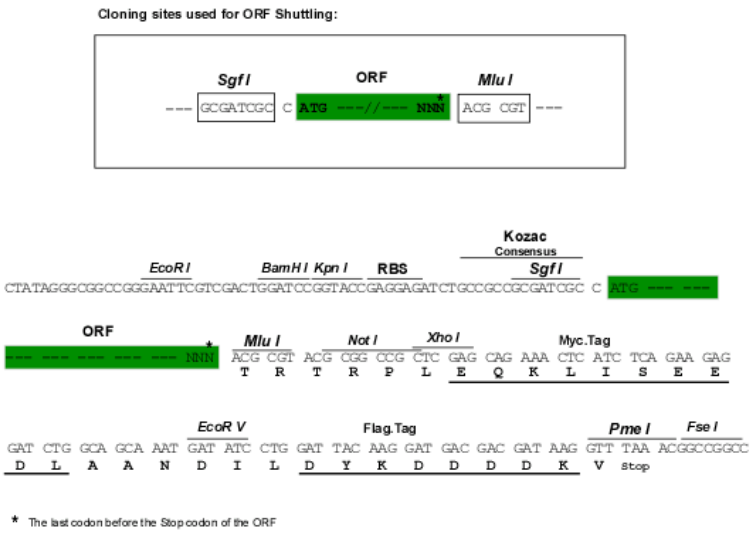
>RC239899 representing NM_001280546
Red=Cloning site Green=Tags(s)

MFNGIISIRNKNGEEKVKIERPGGSLSPIWSICWNPSREERNDILAVADWGQKVSFYQLSGKQIGKDRAL
NFDPCCISYFTKGEYILLGGSDKQVSLFTKDGVRLGTVGEQNSWVWTCQAKPDSNYVVVGCQDGTISFYQ
LIFSTVHGLYKDRYAYRDSMTDVIVQHLITEQKVRIKCKELVKKIAIYRNRLAIQLPEKILIYELYSEDL
SDMHYRVKEKIIKKFECNLLVVCANHIILCQEKRLQCLSFSGVKEREWQMESLIRYIKVIGGPPGREGLL
VGLKNGQILKIFVDNLFAIVLLKQATAVRCLDMSASRKKLAVVDENDTCLVYDIDTKELLFQEPNANSVA
WNTQCEDMLCFSGGGYLNIKASTFPVHRQKLQGFVVGYNGSKIFCLHVFSISAVEVPQSAPMYQYLDRKL
FKEAYQIACLGVTDTDWRELAMEALEGLDFETAKKAFIRVQDLRYLELISSIEERKKRGETNNDLFLADV
FSYQGKFHEAAKLYKRSGHENLALEMYTDLCMFEYAKDFLGSGDPKETKMLITKQADWARNIKEPKAAVE
MYISAGEHVKAIEICGDHGWVDMLIDIARKLDKAEREPLLLCATYLKKLDSPGYAAETYLKMGDLKSLVQ
LHVETQRWDEAFALGEKHPEFKDDIYMPYAQWLAENDRFEEAQKAFHKAGRQREAVQVLEQLTNNAVAES
RFNDAAYYYWMLSMQCLDIAQDPAQKDTMLGKFYHFQRLAELYHGYHAIHRHTEDPFSVHRPETLFNISR
FLLHSLPKDTPSGISKVKILFTLAKQSKALGAYRLARHAYDKLRGLYIPARFQKSIELGTLTIRAKPFHD
SEELVPLCYRCSTNNPLLNNLGNVCINCRQPFIFSASSYDVLHLVEFYLEEGITDEEAISLIDLEVLRPK
RDDRQLEIANNSSQILRLVETKDSIGDEDPFTAKLSFEQGGSEFVPVVVSRLVLRSMSRRDVLIKRWPPP
LRWQYFRSLLPDASITMCPSCFQMFHSEDYELLVLQHGCCPYCRRCKDDPGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

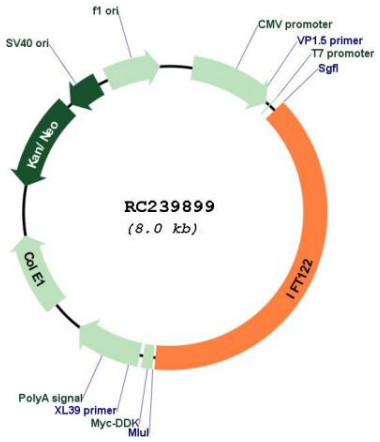
Cloning Scheme:



ACCN:	NM_001280546
ORF Size:	3096 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001280546.1, NP_001267475.1
RefSeq Size:	4007 bp

RefSeq ORF:	3099 bp
Locus ID:	55764
UniProt ID:	Q9HBG6
Cytogenetics:	3q21.3-q22.1
MW:	118.9 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]

Product images:



Circular map for RC239899