

Product datasheet for SC124458

IFT122 (NM_052989) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFT122 (NM_052989) Human Untagged Clone
Tag:	Tag Free
Symbol:	IFT122
Synonyms:	CED; CED1; FAP80; SPG; WDR10; WDR10p; WDR140
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_052989, the custom clone sequence may differ by one or more nucleotides

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ATGAGGGCCGTGTTGACGTGGAGAGATAAAGCCGAGCACTGTATAAATGACATCGCATTTAAGCCTGATG
GAACTCAACTGATTTTGGCTGCCGAAGCAGATTACTGGTTTATGACACCTCTGATGGCACCTTACTTCA
GCCCCCAAGGGACACAAAGACACTGTGTACTGTGGCATATGCGAAGGATGGCAAGCGCTTTGCTTCT
GGATCAGCTGACAAAAGCGTTATTATCTGGACATCAAACTGGAAGGCATTCTGAAGTACACGCACAATG
ATGCTATACAATGTGTCTCCTACAATCCTATTACTCATCAACTGGCATCTTGTTCTCCTCAGTGACTTTGG
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ACAAATGATGGTCAGTACCTGGCGCTGGGGATGTTCAATGGGATCATCAGCATACGGAACAAAAATGGCG
AGGAGAAAGTAAAGATCGAGCGGCCGGGGGCTCCCTCTCGCCAATATGGTCCATCTGCTGGAACCCCTT
AAGCCGATGGGAGAGTTTCTGGATGAACAGAGAGAATGAGGATGCCGAGGATGTCATTGTCAACAGATAT
ATTCAGGAAATCCCTTCCACTCTGAAGTCAGCAGTGACAGTAGTCAGGGTAGTGAGGCAGAGGAGGAAG
AACCAGAGGAAGAGGACGACAGTCCCAGGGACGACAACCTAGAGGAACGTAATGACATCCTGGCTGTGGC
TGACTGGGGACAGAAAGTTTCTTCTACCAGCTGAGTGGAACACAGATTGGAAAGGATCGGGCACTGAAC
TTTGACCCCTGCTGCATCAGCTACTTTACTAAAGGCGAGTACATTTTGCTGGGGGTTTACAGCAAGCAAG
TATCTCTTTTACCAAGGATGGAGTGCGGCTTGGGACTGTTGGGGAGCAGAACTCCTGGGTGTGGACGTG
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TGCAGCACCTGATCACTGAGCAGAAAGTTCGGATTAATGCAAAGAGCTTGTCAGGAAGATTGCCATCTA
CAGAAATCGATTGGCTATCCAACGCCAGAGAAAATCCTCATCTATGAGTTGATTACAGAGGACTTATCA
GACATGCATTACCGGTAAGGAGAAGATTATCAAGAAGTTTGAGTGCAACCTCCTGGTGGTGTGTGCCA
ATCACATCATCTGTGCCAGGAGAAACGGCTGCAGTGCCTGTCTTCAGCGGAGTGAAGGAGCGGGAGTG
GCAGATGGAGTCTCTCATTCTGTTACATCAAGGTGATCGGTGGCCCTCCTGGAAGAGAAGGCCTCTTAGTG
GGGCTGAAGAATGGACAGATCCTGAAGATCTTCGTGGACAATCTCTTTGCTATCGTCTGCTGAAGCAGG
CCACAGCTGTGCGCTGCTTGACATGAGTGCCTCCCGTAAGAAGCTGGCCGTGGTAGATGAAAATGACAC
  
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TTGCCTGGTGTATGACATCGACACCAAGGAGCTGCTTTTTTCAGGAACCAACGCCAACAGTGTAGCTTGG
AACACCCAGTGTGAGGACATGCTCTGCTTCTCGGGAGGAGGCTACCTCAACATCAAGGCCAGCACCTTCC
CTGTGCACCGGCAGAAGCTGCAGGGCTTTGTGGTGGCTACAATGGCTCCAAGATCTTCTGCCTCCATGT
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CATCAGCAGCATTGAGGAGAGGAAGAAGCGGGGAGAGACCAACAATGACCTGTTTCTGGCAGATGTGTTT
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GCATCAACTGCCCGCAGCCCTTCTCTTCCGCTCTTCTACGACGTGCTACACTGGTTGAGTTCTA
CCTGGAGGAAGGGATCACTGATGAAGAAGCCATCTCCCTCATCGACCTGGAGGTGCTGAGACCAAGCGG
GATGACAGACAGCTAGAGATTGCAACAACAGCTCCAGATTCTGCGGCTAGTGGAGACCAAGGACTCCA
TCGGAGATGAGGACCCGTTACAGCTAAGCTGAGCTTTGAGCAAGGTGGCTCAGAGTTCTGCCAGTGGT
GGTGAGCCGGCTGGTGTGCGCTCCATGAGCCGCGGGATGTCTCATCAAGCGATGGCCCCACCCCTG
AGGTGGCAATACTTCCGCTCACTGCTGCCTGACGCTCCATTACCATGTGCCCTCCTGCTTCCAGATGT
TCCATTCTGAGGACTATGAGTTGCTGGTGTCTCAGCATGGCTGCTGCCCTACTGCCGAGGTGCAAGGA
TGACCCTGGCCCATGA

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_052989 unedited
ACATTTTGTATACGACTACTATAGGCGGCCGCAAAATTCGCACGAGGGCCAAAGTGGCTT
GTGGAGTGGCGACCGTTAGTGAGGCGTTGCTGAGACAGACGCTGAGGCGGGTAGGAGGA
GCCCGAGCCGTAAGGGAAGCCGTGATGAGGCGCGTGTGACGTGGAGAGATAAAGCCGAG
CACTGTATAAATGACATCGCATTAAAGCCTGATGGAACCAACTGATTTTGGCTGCCGGA
AGCAGATTACTGTTTATGACACCTCTGATGGCACCTTACTTCAGCCCTCAAGGGACAC
AAAGACACTGTGTACTGTGTGGCATATGCGAAGGATGGCAAGCGCTTTGCTTCTGGATCA
GCTGACAAAAGCGTTATTATCTGGACATCAAACTGGAAGGCATTCTGAAGTACACGCAC
AATGATGCTATACAATGTGTCTCCTACAATCCTATTACTCATCAACTGGCATCTTGTTCC
TCCAGTGACTTTGGGTTGTGGTCTCCTGAACAGAAGTCTGTCTCCAAACACAAATCAAGC
AGCAAGATCATCTGCTGCAGCTGGACAAATGATGGTCAGTACCTGGCGCTGGGGATGTTT
AATGGGATCATCAGCATACGGGACAAAAATGGCGAGGAGAAAGTAAAGATCGAGCCGGCG
GGGGGCTCCCTCTCGCCAATATGTCATCTGCTGAACCCCTTCAAGAGAGGACCTAATGA
CATCCTGTCTGTGGGTTGCTTGGGACAAAAAGTTTCTTCTCCAAGTGAAGTGAAGAAACA
ATTGGAAGATCGGGCACTGAATCTTTACCCTGCTGGATAACCTCTTTTATTAAGGGGAG
ACATTTTGTGGTGGGTGTAACAAACAAGATATTTTAAACCAAGATGGAATGCGCT
TGTGACTGTTGGGAGCACAATCTTGGGTGGACGCTTAAACAAACCGTTTCACATGGGTTG
GTGGTGTGACAAG

Restriction Sites:

NotI-NotI

ACCN:	NM_052989
Insert Size:	4000 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
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_052989.1 , NP_443715.1
RefSeq Size:	4029 bp
RefSeq ORF:	3726 bp
Locus ID:	55764
UniProt ID:	Q9HBG6
Cytogenetics:	3q21.3-q22.1
Domains:	WD40

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-aspartate (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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. It encodes isoform 2, which lacks an internal segment and is shorter than isoform 1.