

Product datasheet for SC110525

IFT122 (NM_018262) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFT122 (NM_018262) 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_018262, the custom clone sequence may differ by one or more nucleotides

ATGAGGGCCGTGTTGACGTGGAGAGATAAAGCCGAGCACTGTATAAATGACATCGCATTTAAGCCTGATG
 GAACTCAACTGATTTTGGCTGCCGAAGCAGATTACTGGTTTATGACACCTCTGATGGCACCTTACTTCA
 GCCCCTCAAGGGACACAAAGACACTGTGTACTGTGGCATATGCGAAGGATGGCAAGCGCTTTGCTTCT
 GGATCAGCTGACAAAAGCGTTATTATCTGGACATCAAACTGGAAGGCATTCTGAAGTACACGCACAATG
 ATGCTATACAATGTGTCTCCTACAATCCTATTACTCATCAACTGGCATCTTGTTCTCCTCAGTGACTTTGG
 GTTGTGGTCTCCTGAACAGAAGTCTGTCTCCAAACACAAATCAAGCAGCAAGATCATCTGCTGCAGCTGG
 ACAAATGATGGTCAGTACCTGGCGCTGGGGATGTTCAATGGGATCATCAGCATACGGAACAAAAATGGCG
 AGGAGAAAGTAAAGATCGAGCGGCCGGGGGCTCCCTCTCGCCAATATGGTCCATCTGCTGGAACCTTC
 AAGAGAGGAACGTAATGACATCCTGGCTGTGGCTGACTGGGGACAGAAAGTTTCTTCTACCAGCTGAGT
 GGAAAACAGATTGGAAAGGATCGGGCACTGAACTTTGACCCCTGCTGCATCAGCTACTTTACTAAAGGCG
 AGTACATTTTGTGGGGGTTTCAACAAGCAAGTATCTCTTTTACCAAGGATGGAGTGGCGCTTGGGAC
 TGTTGGGAGCAGAACTCCTGGGTGTGGACGTGTCAAGCGAAACCGGATTCCAATATGTGGTGGTGGC
 TGCCAGGACGGCACCATTTCCTTCTACCAGCTTATTTTCAACAGTCCATGGGCTTTACAAGGACCGCT
 ATGCCTACAGGGATAGCATGACTGACGTATTGTGCAGCACCTGATCACTGAGCAGAAAGTTCGGATTAA
 ATGCAAAGAGCTTGTCAAGAAGATTGCCATCTACAGAAATCGATTGGCTATCCAAGTCCAGAGAAAAATC
 CTCATCTATGAGTTGTATTCAAGGACTTATCAGACATGCATTACCGGGTAAAGGAGAAGATTATCAAGA
 AGTTTGAGTGCAACCTCCTGGTGGTGTGTGCCAATCACATCATCTGTGCCAGGAGAAACGGCTGCAGTG
 CCTGTCTTTCAGCGGAGTGAAGGAGCGGGAGTGGCAGATGGAGTCTCTATTTCGTTACATCAAGGTGATC
 GGTGGCCCTCCTGGAAGAGAAGGCTCTTAGTGGGGCTGAAGAATGGACAGATCTGAAGATCTTCGTGG
 ACAATCTCTTTGCTATCGTCTGCTGAAGCAGGCCACAGCTGTGCGTGTGTTGGACATGAGTGCCTCCCG
 TAAGAAGCTGGCCGTGGTAGATGAAAATGACACTTGCCTGGTGTATGACATCGACACCAAGGAGCTGCTT
 TTTAGGAACCAAACGCCAAGTGTAGCTTGGAAACCCAGTGTGAGGACATGCTCTGCTTCTCGGGAG
 GAGGCTACCTCAACATCAAAGCCAGCACCTTCCCTGTGCACCGGCAGAGCTGCAGGGCTTTGTGGTGG


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CTCAATGAGCTCAAGATCTTCTGCCTCCATGTCTTCTCCATTTCTGCCGTGGAGGTGCCGCAGTCCGCT
CCCATGTACCAGTACCTGGATAGGAACTGTTCAAGGAAGCCTACCAGATTGCTTGCTTGGGTGTCACAG
ACACTGATTGGCGTGAAGTGGCCATGGAAGCGCTAGAAGGTTTAGATTTTGAACACGAAAGAAGGCCTT
CATCAGAGTACAAGACCTCCGATATTTAGAGCTCATCAGCAGCATTGAGGAGAGGAAGAAGCGGGGAGAG
ACCAACAATGACCTGTTTCTGGCAGATGTGTTTTCTACCAGGGGAAGTTCATGAGGCCGCCAAACTGT
ACAAGAGGAGTGGGCACGAGAACCTCGCGCTTGAATGTACACCGACCTCTGCATGTTTGAGTATGCCAA
GGATTTCTTGATCTGGAGACCCCAAAGAAACAAAGATGCTAATCACCAAACAGGCTGACTGGGCCAGA
AATATCAAGGAGCCCAAAGCCGCCGTGGAGATGTACATCTCAGCAGGAGAGCACGTCAAGGCCATCGAGA
TCTGTGGTGACCATGGCTGGGTGACATGTTGATCGACATCGCCCGCAAACCTGGACAAGGCTGAGCGCGA
GCCCTGCTGCTGTGCGCTACCTACCTCAAGAAGCTGGACAGCCCTGGCTATGCTGCTGAGACCTACCTG
AAGATGGGTGACCTCAAGTCCCTGGTGCAGCTGCAGCTGGAGACCCAGCGCTGGGATGAGCCCTTTGCTT
TGGGTGAGAAGCATCTCTGAGTTTAAAGTAGACATCTACATGCCGTATGCTCAGTGGCTAGCAGAGAACA
TCGCTTTGAGGAAGCCAGAAAGCGTTCCACAAGGCTGGGCGACAGAGAGAAGCGGTCCAGGTGCTGGAG
CAGCTCACAACAATGCCGTGGCGGAGAGCAGGTTTAAATGATGCTGCCTATTATTACTGGATGCTGTCCA
TGCAGTGCCTCGATATAGCTCAAGATCTGCCCAGAAGGACACAATGCTTGGCAAGTTCTACCACTTCCA
GCGTTTGGCAGAGCTGTACCATGGTTACCATGCCATCCATGCCACACGGAAGATCCGTTCAAGTGTCCA
CGTCTGAAACTCTTTTCAACATCTCCAGGTTCTGCTGCACAGCCTGCCCAAGGACACCCCTCGGGCA
TCTCTAAAGTAAAATACTCTTACCTTGGCCAAGCAGAGCAAGGCCCTCGGTGCCTACAGGCTGGCCCG
GCACGCCTATGACAAGCTGCGTGGCCTGTACATCCTGCCAGATTCCAAAAGTCCATTGAGCTGGGTACC
CTGACCATCCGCGCCAAGCCCTTCCACGACAGTGAAGGATTGGTGCCCTTGTGCTACCGCTGCTCCACCA
ACAACCCGCTGCTCAACAACCTGGGCAACGTCTGCATCAACTGCCGCCAGCCCTTCATCTTCTCGGCCTC
TTCCTACGACGTGCTACACCTGGTTGAGTTTCTACCTGGAGGAAGGGATCACTGATGAAGAAGCCATCTCC
CTCATCGACCTGGAGGTGCTGAGACCCAAGCGGGATGACAGACAGCTAGAGATTGCAAACAACAGCTCCC
AGATTCTGCGGCTAGTGAGACCAAGGACTCCATCGGAGATGAGGACCCGTTACAGCTAAGCTGAGCTT
TGAGCAAGGTGATCTCAGAGTTCTGTGCCAGTGGTGGTGAGCCGGCTGGTGTGCTGCGCTCCATGAGCCGCCG
GATGTCTCTCATCAAGCAGATGGCCCCACCCCTGAGGTGGCCAATAGTTCCGCTCACTGCTGCTGAGCCCT
CCATTACCATGTGCCCTCTCGTTCCAGATGTTCCATTTCTGAGACTATGAGTTGCTGGTCTTCAGCA
TGGTGCTGCCCTACTGCCGCAGGTGCAAGGATGACCTTGGCCCATGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018262 unedited

GGTCAGCATTTGTATACGACTCACTATAGGCGGCCGCAATTGCGACGAGGCCGAGCCGTA
AGGGAAGCCGTGATGAGGGCCGTGTTGACGTGGAGAGATAAAGCCGAGCACTGTATAAAT
GACATCGCATTTAAGCCTGATGAACTCAACTGATTTTGGCTGCCGGAAGCAGATTACTG
GTTTATGACACCTCTGATGGCACCTTACTTCAGCCCTCAAGGGACACAAAGACACTGTG
TACTGTGTGGCATATGCGAAGGATGGCAAGCGCTTTGCTTCTGGATCAGTGACAAAAGC
GTTATTATCTGGACATCAAAACTGGAAGCATTCTGAAGTACACGCACAATGATGCTATA
CAATGTGTCTCCTACAATCCTATTACTCATCACTGGCATCTTGTTCTCCAGTGACTTT
GGGTTGTGGTCTCCTGAACAGAAGTCTGTCTCCAAACACAAATCAAGCAGCAAGATCATC
TGCTGCAAGCTGGACAAATGATGGTCAGTACCTGGCGCTGGGGATGTTCAATGGGATCATC
AGCATACGGAACAAAAATGGCGAGGAGAAAAGTAAAGATCGAGCGGCCGGGGGGCTCCCTC
TCGCCAATATGGTCCATCTGCTGGAACCCCTTCAAGAGAGGAACGTAATGACATCCTGGCT
GTGGCTGACTGGGGACAGAAAGTTTCTTCTACCAGCTGAGTGAAAAACAGATTGGAAG
GGATCGGCATGTAACCTTTGACCCCTGCTGCATCAGCTACTTTACTAAAGCGCAGATACATT
TGTCTGGGGGTTGACACCAGCAAGTATCTCTTTACCAAGNATGNAAGTCGGCTTGGG
ACTGTTTGGGAGCAGAACTCCTGGTGGGGACGTGTCAAGCGAAACCGGATTCCAATATGT
GGGTGGTCGGCT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018262 unedited <pre> GCTAAAGCCTTTAGTCGCCTTACAGCCCAGCACACCCAGGCGGGCAGAGGGTGCATGTC CGTCCCCAGGATGCTGGTCATGGGCCAGGGTCATCCTTGACCTGCGGCAGTAGGGGCAG CAGCCATGCTGAAGCACCAGCAACTCATAGTCCTCAGAATGGAACATCTGGAAGCAGGAG GGGCACATGGTAATGGAGGCGTCAGGCATTTTTTATCGGAAGTATTGCCACCTCAGGGG TGGGGGCCATCGCTTGATGAGGACATCCCGCGGCTCATGGAGCGCAGTACCAGCCGGCT CACCACCACTGGCACCAACCTCTGACCCCTTGTTAAAGCTAACTTACTGGAAACGGCCT TATCCCCAGGGAGTCCTGGGTTCCACTACCCAAAAATTGGAACCTGTGGCGGCAATCCCA AACGTTGGCCTCCCTTGGGCCCCACCCCCCGCCCAAAAGGAAAGGGCTTTTTCACAT TGCACCTTTCTTCGGAAAAACCCCCAAGCGTCCCCCCCCCTGCAAAAGGGGCAAA ACATACGGTGTTCCGCACTTATCCACACCTTTCCCCCTTTCATCCCCTGTTTTCTGGG TTTTACTTGCCCCAGGGCCCCCCCCCTTTCTTTAAAGGTCCTCCCCCTTTTTT TCCTCCCCCTCTCCCTTTCTTTTCCCCATTCCGCCCTTCTCCCCCTCTCTTTTC CCCCACTCGCGCCCTCCCCCCCCCTTTCCCTCCACCATGTTTTTCTTTCCCTC CCCCCTTTGTCATCACTCCCTCCTCTCTTTTTCGCCCGCCCCCTCTG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_018262
Insert Size:	4000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_018262.2</u> , <u>NP_060732.2</u>
RefSeq Size:	3837 bp
RefSeq ORF:	3549 bp
Locus ID:	55764
UniProt ID:	<u>Q9HBG6</u>
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 (3) lacks two alternate in-frame exons in the 5' coding region, compared to variant 1. It encodes isoform 3, which lacks two internal segments and is shorter than isoform 1.