

Product datasheet for **SC120155**

IFT43 (NM_052873) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFT43 (NM_052873) Human Untagged Clone
Tag:	Tag Free
Symbol:	IFT43
Synonyms:	C14orf179; CED3; RP81; SRTD18
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_052873, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGATTTGCTCGACTTGGACGAGGAGCTTCGCTACAGCTTGGCTACCTCCAGGGCCAAGATGGGTC
GCCGAGCTCAACAGGAGTCAGCGCAGGCCGAGAATCACCTCAATGGCAAGAATTCCTCTTTGACTCTGAC
TGGAGAGACTTCCTCTGCTAAATTACCTCGCTGCCGACAGGGAGGCTGGGCAGGTGATTCCTGGAAGGCT
TCGAACGGTACCCAAACAGGCAAACAACAGCTGGATCTGAACGCATGCTATCACAAAACGCATCACAGAG
ATTTGGGGCTGGCTTCATTGGAAGAGGCAGATATTCCTATCATTCCGGATCTGGAGGAAGTACAGGAAGA
AGACTTTGTTTTGCAGGTGGCAGCCCTCCAGCATCCAGATAAAGCGGGTGATGACCTACCGTGACCTG
GACAATGACCTCATGAAGTACTCAGCCATTCAGACACTGGATGGGGAGATCGACCTGAAACTCCTACCA
AAGTGCTCGCGCCGGAGCACGAAGTCCGGGAGGATGATGTCGGCTGGGACTGGGACCATCTGTTCACTGA
GGTGTCTCAGAGGTCCTCACTGAGTGGGACCCACTGCAGACGGAGAAGGAGGACCCTGCGGGGCAGGCC
AGGCACACCTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_052873 unedited
 GGGTGCANAATTTGTTATACGACTCCACTATAGGGCGGCCGCGATTTCGGCACGAGGCGGA
 GATGGAGGATTTGCTCGACTTGGACGAGGAGCTTCGCTACAGCTTGGCTACCTCCAGGGC
 CAAGATGGGTCCCGAGCTCAACAGGAGTCAGCGCAGGCCGAGAATCACCTCAATGGCAA
 GAATTCCTCTTTGACTCTGACTGGAGAGACTTCCTCTGCTAAATTACCTCGTGCCGACA
 GGGAGGCTGGGCAGGTGATTCCGTGAAGGCTTCGAAGTTTAGGAGGAAGGCTTCTGAAGA
 AATAGAAGATTTCCGCCTCAGACCACAGAGCCTGAATGGATCAGATTATGGAGGAGATAT
 TCCTATCATTCCGGATCTGGAGGAAGTACAGGAAGAAGACTTTGTTTTGCAGGTGGCAGC
 CCCTCCCAGCATCCAGATAAAGCGGGTGATGACCTACCGTGACCTGGACAATGACCTCAT
 GAAGTACTCAGCCATTCAGACACTGGATGGGGAGATCGACCTGAAACTCCTCACCAAAAGT
 GCTCGCGCCGGAGCACGAAGTCCGGGAGGATGATGTCGGCTGGGACTGGGACCATCTGTT
 CACTGAGGTGTCCTCAGAGGTCCTACTGAGTGGGACCCACTGCAGACGGAGAAGGAGGA
 CCCTGCGGTGCAGGCCAGGCACACCTGAGCCCCGTACCATGCTCTAGACATGAAGAAAT
 GCCATGAGCTTAAAGCTAAAAAAGCTTGAAGCAGCTCCGAATTTTTACCTGGGATATTT
 TGTATAAAAAATATCTATATTCAGTCACCCATTGGATAATCCAATGGCATAAATTGCTT
 ATTCTGGCCCTCTCAAAAAAAAAAAAAAAGTCCACTCTAAATTGGGGCCGCTTCTAACCTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_052873 unedited
 GGGTTTCGCTTTGGACCCGCGGCCGAANCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGA
 GGATGGCACAGAATAAGCAATTTATTGCAATTGAATTATCCAATGTGGTTGACTGAATAT
 AAATATTTTTATTACAAAATATTCCAGGTAAAAATTCGGAGCTGCTTACAAGCTTCTTTA
 GCTTTAAGCTCATTGCATTTCTTCATGTCTAGAGCATGGGTGACGGGCTCAGGTGTGCCT
 GGCTGCCCGCAGGGTCTCTCTCCGTCTGCAGTGGGTCCCCTCAGTGAGGACCTC
 TGAGGACACCTCAGTGAACAGATGGTCCCAGTCCCAGCCGACATCATCTCCCGACTTC
 GTGCTCCGGCGCAGCACTTTGGTGAAGGATTTTCAGGTGATCTCCCATCCAGTGTCTG
 AATGGCTGAGTACTTCATGAGGTATTGTCCAGGTCACGGTAGGTCATCACCCGCTTTAT
 CTGGATGCTGGGAGGGGCTGCCACCTGCAAAACAAAGTCTTCTTCTGTACTTCTCCAG
 ATCCGGAATGATAGGAATATCTCCTCCATAATCTGATCCATTCAGGCTCTGTGGTCTGAG
 GCGGAAATCTTCTATTTCTCAGAAGCCTTCTCCTAACTTCGAAGCCTTCACGGAATC
 ACCTGCCAGCCTCCCTGTCCGAGCGAGGTAATTTAGCAGAGGAAGTCTCTCCAGTCAG
 AGTCAAAGAGGAATCTTGCCATTGAGGTGATTCTCGGCTGCGCTGACTCCTGTTGAGC
 TCGGCGACCCCATCTGGCCCTGGAGTAGCCAAGCTGTAGCGAAGCTCCTCGTCCAAGTCG
 AGCAAATCCTCCATCTCCGCCTCGTGCCGAATTCGCGGCCGCCTATAGTGAGTCGTATAC
 CAAATCCTGA

Restriction Sites:

NotI-NotI

ACCN:

NM_052873

Insert Size:

760 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: [NM_052873.1](#), [NP_443105.1](#)

RefSeq Size: 850 bp

RefSeq ORF: 642 bp

Locus ID: 112752

UniProt ID: [Q96FT9](#)

Cytogenetics: 14q24.3

Gene Summary: This gene encodes a subunit of the intraflagellar transport complex A (IFT-A). IFT-A is a multiprotein complex that plays an important role in cilia assembly and maintenance by mediating retrograde ciliary transport. Mutations in this gene are a cause of cranioectodermal dysplasia-3 (CED3), also known as Sensenbrenner syndrome. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]
Transcript Variant: This variant (1) encodes the longest isoform (1).