

## Product datasheet for **SC103104**

### IFT43 (AK056735) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IFT43 (AK056735) Human Untagged Clone
Tag:	Tag Free
Symbol:	IFT43
Synonyms:	C14orf179; CED3
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for AK056735, the custom clone sequence may differ by one or more nucleotides

[ATGGAGGATTTGCTCGACTTGGACGAGGAGCTTCGCTACAGCTTGGCTACCTCCAGGGCCAAGATGGGTC](#)  
[GCCGAGCTCAACAGGAGTCAGCGCAGGCCGAGAATCACCTCAATGGCAAGAATTCCTCTTTGACTCTGAC](#)  
[TGGAGAGACTTCCTCTGCTAAATTACCTCGCTGCCGACAGGGAGGCTGGGCAGGTGATCCGTGAAGGCT](#)  
[TCGAAGTTTAGGAGGAAGGCTTCTGAAGAAATAGAAGATTTCCGCCTCAGACCACAGAGCCTGAATGGAT](#)  
[CAGATTATGGAGGAGCGGTACCCAAACAGGCAAACAACAGCTGGATCTGA](#)

#### 5' Read Nucleotide Sequence:

>OriGene 5' read for AK056735 unedited  
GGGGTTCACATTTGTATACGACTCACTTAGGCGGCCGCGAAATTCGCACGAGGGGAGAAT  
GGAGATTTGCTCGACTTGGACGAGGAGCTTCGCTACAGCTTGGCTACCTCCAGGGCCAAG  
ATGGGTCGCCGAGCTCAACAGGAGTCAGCGCAGGCCGAGAATCACCTCAATGGCAAGAAT  
TCCTCTTTGACTCTGACTGGAGAGACTTCCTCTGCTAAATTACCTCGCTGCCGACAGGGA  
GGCTGGGCAGGTGATTCGTGAAGGCTTCGAAGTTTAGGAGGAAGGCTTCTGAAGAAATA  
GAAGATTTCCGCCTCAGACCACAGAGCCTGAATGGATCAGATTATGGAGGAGATTTCT  
ATCATTCCGGATCTGGAGGAAGTACAGGAAGAAGACTTTGTTTTGCAGGTGGCAGCCCCT  
CCCAGCATCCAGATAAAGCGGGTATGACCTACCGTGACCTGGACAATGACCTCATGAAG  
TACTCAGCCATTCAGACTGGATGGGGAGATCGACCTGAAACTCCTCACCAAAGTGCTC  
GCGCCGGAGCACGAAGTCCGGGAGGATGATGTCGGCTGGGACTGGGACCATCTGTTCACT  
GAGGTGTCCTCAGAGTCTCACTGAGTGGGACCACTGCAGACGGAGAATGANGACCCT  
GCGGGGCATGCCAGGCACACCTGAGCCCGTCACCCATGCTCTAGACATGAAGAAAATGCA  
TGAGCTTAAAGCTAAAGAAGCTTGTAAAGCAGCTCCGAATTTTTACCTGNAATATTTTGT  
ATAAAAAATATTTATATTAGTCAACCACATTGGATAAATTCAATTGCAATAAATTGCTTAT  
TCTGTGCCATCTNCAAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGCGGGC



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for AK056735 unedited ACCGCGGCCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTGGGAGAGGCACAGAAT AAGCAATTTATTGCAATTGAATTATCCAATGTGGTTGACTGAATATAAATATTTTATTA CAAAATATTCCAGGTAATAATTCGGAGCTGCTTACAAGCTTCTTAGCTTTAAGCTCATT GCATTTCTTATGTCTAGAGCATGGGTGACGGGCTCAGGTGTGCCTGGCCTGCCCGCAG GGTCCTCCTTCTCCGTCTGCAGTGGGTCCCACTCAGTGAGGACCTCTGAGGACACCTCAG TGAACAGATGGTCCCAGTCCCAGCCGACATCATCTCCCGGACTTCGTGCTCCGGCGCA GCACTTTGGTGAGGAGTTTCAGGTCGATCTCCCATCCAGTGTCTGAATGGCTGAGTACT TCATGAGGTCATTGTCCAGGTCACGGTAGGTCATCACCCGCTTTATCTGGATGCTGGGAG GGGCTGCCACCTGCAAAACAAAGTCTTCTTCTGTACTTCTCCAGATCCGGAATGATAG GAATATCTCTCCATAATCTGATCCATTANGCTCTGTGGTCTGAGGCGGAAATCTTCTA TTTCTTCAGAAGCCTTCTCCTAACTTCAAGCCTTACGGGATCACCTGCCAGCCTC CCTGTCNGCAGCGAGTAATTTAGCAGAAGAAGTCTCTCCAGTCAGAGTCAAAGAGGAAT TCCTGCCATTGGAGTGATTCTCGGCCTGCGCTGACTCCTGGTGAGCTCNGCGACCCATCT GGCCCTGGAGTAGCAAGCTGTAGCGAAGCTCCTCCTCCAGTCGAGCAAATTCTCCATC TTCCCTCGTGCCGAAATTGCGGGCGCCCTATAGTGGAGTCTATTACAAAATCTGACGGG TCACTAAACGAGCTCTGGCTAATTAGACCTCCACCGGACACGCCTACGCGCCATTTGGG TAAACGGGCGGGGTATAACCACACTTTGGAAAATCCCCTGGATTTGGGGCCAAACAAA CTTCTTGCAGCATGGGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK056735
<b>Insert Size:</b>	900 bp
<b>OTI Disclaimer:</b>	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).
<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>RefSeq:</b>	<u><a href="#">AK056735.1</a></u> , <u><a href="#">BAG51798.1</a></u>
<b>RefSeq Size:</b>	1096 bp
<b>RefSeq ORF:</b>	330 bp
<b>Locus ID:</b>	112752
<b>Cytogenetics:</b>	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]