

Product datasheet for SC108754

IFT140 (NM_014714) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFT140 (NM_014714) Human Untagged Clone
Tag:	Tag Free
Symbol:	IFT140
Synonyms:	c305C8.4; c380F5.1; gs114; MZSDS; RP80; SRTD9; WDT C2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108754 sequence for NM_014714 edited (data generated by NextGen Sequencing)

ATGGCCCTCTATTATGACCACCAGATAGAAGCCCCGGATGCAGCAGGGTCACCCTCATTT
ATCAGCTGGCACCCTGTCCATCCATTCTTGGCAGTTGCTTACATCAGCACAACCTCAACA
GGCAGCGTGGATATTTACCTGGAGCAAGGGGAGTGCCTGCCAGATACACACGTCGAGAGG
CCGTTCCGGGTTGCTTCCTGTGCTGGCACCCGACGCGGCTGGTGTGGCTGTGGGCTGG
GAGACTGGAGAAGTGACGGTGTAAACAAGCAGGACAAGGAGCAGCACACGATGCCCTG
ACACACACAGCCGACATCACCCTGCTCCGTTGGAGCCCCAGTGGAACTGCCTGTGTCT
GGGGACAGGCTTGGTGTCTTGTCTTGTGGAGGTTGGACCAAAGGGCCGAGTGAAGGG
ACGCTCTGCTGAAACACGAGTATGGGAAACACCTCACGCACTGCATCTTCCGGCTCCCC
CCTCCTGGCGAGGACCTGGTTCAGTTGGCAAAGGCAGCTGTGAGCGGTGATGAGAAAGCC
CTGGACATGTTTTAACTGGAAGAAGAGCAGTTCTGGAAGTTTGCTGAAGATGGGGTCTCAC
GAGGGGCTGTTGTTCTTTGTCTGATGAGGACGGGACAGTGCATATGTGGATGAGAAG
GGCAAGACCACTCAGGTGGTGTCCGACAGACAGCAGATTGATGCTGTTCTACATGGAG
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CCTGAGGGCAAAGCAGAGAAGTATGAAGGTCAAGCTGAGCGGGAAAACCGCCCCCGG
GCAGACATCGCTTTGATTGAAGGCAGCCTTCTCGTGATGGCCGTCGGGGAGGCTGCCCTC
AGATTCTGGGACATAGAACGAGGAGAGAATTATATACTGAGTCCAGATGAGAAGTTTGGC
TTTGAGAAAGGAGAGAATATGAAGTGTGTGTTACTGTAAAGTCAAAGGTCCTTGGCC
GCTGGTACCGACAGAGGGCGAGTAGCCATGTGGAGGAAAAGTACCAGACTTCCTGGGCAGC
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ATCACGAAAATCCAGTGGGGTTCCAGGAAGAACCTGCTGGCAGTGAACAGCGTCATCTCC
GTGGCCATCCTCAGCGAGCGGGCCATGTCGTACACTTCCACCAGCAAGTGGCCGCCATG
CAGGTCTCCCCGAGTCTGCTGAATGTGTGCTTCTGTCCACGGGGGTCGCACACAGCCTG
CGCACCAGATGCACATCAGTGGAGTGTGGCCACCAAGGATGCTGTGCGAGTCTGGAAC
GGAAGGCAGGTGGCGATCTTCGAGCTTTCTGGAGCCGCGATACGGAGTGCAGGGACCTTC
TTGTGTGAGACGCCTGTGTTAGCAATGCATGAAGAAAACGTTTACACGGTGGAGTCAAAC



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CGAGTTCAAGTTCGAACCTGGCAGGGGACTGTCAAACAACCTCCTCCTTTCTCGGAGACT
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GCTCACTTTAAAAGCTTTGATCTTTCCGAAGAGAGGCCAAAGCACACTGTAGCTGCAGG
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TCGGACCTGCCTGAGGAGTGGCGCGGGAGCTGCTGGAGCAGATAGCAGACTGCTGCATG
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AGGTTCATCCAGGCCCGCAGGACGTACACAGAGGACCCCAAGGAGTCCATCAAGCAGTGT
GAGCTGCTCCTGGAGGAACAGACCTGGACAGCACCATCCGCATCGGGGACGTCTATGGC
TTCCTGGTGGAGCACTACGTGCGGAAGGAGGAATACCAGACGGCCTACAGATTCTGGAG
GAGATGCGGGCGGGCTTCCCTTGGCCAACATGTCCTACTACGTGAGCCCGCAGGCCGTG
GACGCCGTGCACCGGGGGCTGGGTCTCCACTGCCACGCACCGTCCCCGAGCAGGTCCGC
CACAAACAGCATGGAGAGCCAGGAGCTGGACGAGGAGTGGTGAAGAGGCAGATGAC
GACCCCTGA

Clone variation with respect to NM_014714.3
836 g=>c

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014714 unedited TAACCCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG CAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTGCAGCGGCCGC GAATTCGGCACGAGGGTGGCCTTAGGGCTAGGGCGGCCGACCCAGGTCTTAGGAGCCAG GCCGGGTTTGGGGCCGAGGATGTGACCGGTGGCGGGCGTCGGGACCCCTCCCGTCTCCTC CCACGATCCCGGCGCCGCCGAGTCCCGCGGCCCTCGCGAGTCCCATCGAGGCTGGGGC GGGCTTGGCGCGGGTCCAGGTCGCTCGTGGACTATGGCTGTGCCCCCGCCCGCCCTC GAATCGCGGCTGATTCCGGTTTCAGCGCTGAGGAGGCCTGAGTTCCGTCTATGGCCCTCTA TTATGACCACCAGATAGAAGCCCCGGATGCAGCAGGGTCACCCTCATTTATCAGCTGGCA CCCTGTCCATCCATTCTTGGCAGTTGCTTACATCAGCACAACCTCAACAGGCAGCGTGGA TATTTACCTGGAGCAAGGGGAGTGCCTGCCAGATACACACGTCGAGAGGCCGTTCCGGGT TGCTTCCCTGTGCTGGCACCCGACGCGGCTGGTGTGGCTGTGGGCTGGGAGACTGGAGA AGTGACGGTGTAAACAAGCAGGACAAGGAGCAGCACACGATGCCCTGACACACACAGC CGACATACCGTGTCTCCGTTGGAGCCCCAGTGGAACTGCCTGCTGTCTGGNGACAGGCT GGNTGTCTGCTCTTGTGGAGGNTGGACCANAGGGCCGAGTGCAAGGGACGCCTCTGCTG AACACCGAGTATGGGAACACCTACGCACTGCATCTTCCGGCTCCCCCTCTGGCAGGACT CGGGTTCANTTGGCAAGGCAGCTGTGAGCCGTGATGAAAAGCCTGGNATGTTAACTGAGA AAGAGCAGTT
Restriction Sites:	ECORI-NOT
ACCN:	NM_014714
Insert Size:	6000 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_014714.2, NP_055529.2</u>
RefSeq Size:	4966 bp
RefSeq ORF:	4389 bp
Locus ID:	9742
UniProt ID:	<u>Q96RY7</u>
Cytogenetics:	16p13.3
Domains:	WD40

Gene Summary:

This gene encodes one of the subunits of the intraflagellar transport (IFT) complex A. Intraflagellar transport is involved in the genesis, resorption and signaling of primary cilia. The primary cilium is a microtubule-based sensory organelle at the surface of most quiescent mammalian cells, that receives signals from its environment, such as the flow of fluid, light or odors, and transduces those signals to the nucleus. Loss of the corresponding protein in mouse results in renal cystic disease. [provided by RefSeq, Jun 2012]