

Product datasheet for SC114489

IFT52 (NM_016004) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFT52 (NM_016004) Human Untagged Clone
Tag:	Tag Free
Symbol:	IFT52
Synonyms:	C20orf9; CGI-53; NGD2; NGD5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114489 sequence for NM_016004 edited (data generated by NextGen Sequencing)

ATGGAGAAAGAGCTGCGGAGCACCATTCTTTTCAATGCCTACAAAAAGGAGATATTTACC
 ACCAACAAATGGCTACAAATCCATGCAGAAAAAACTTCGGAGTAATTGGAAGATTGAGAGC
 TTAAGAGATGAAATCACATCTGAGAAGTTAAATGGAGTAAACTGTGGATTACAGCTGGG
 CCAAGGGAAAAATTTACTGCAGCTGAGTTTGAAATCCTGAAGAAATATCTTGACACTGGT
 GGAGATGTCTTTGTGATGCTAGGAGAAGGTGGAGAATCCAGATTTGACACCAATATTAAC
 TTTTACTAGAAGAATATGGAATCATGGTTAATAATGATGCTGTGGTTAGAAATGTATAT
 CACAAATATTTCCATCCTAAAGAAGCTCTAGTTTCCAGTGGAGTCTTGAACAGGGAAAT
 AGCCGAGCTGCAGGAAAGGCTGTGCCTGGGATCATTGATGAGGAAAGCAGTGGAAACAAT
 GCCCAGGCTCTCACCTTTGTGTATCCTTTTGGTGCCACATTGAGTGTGATGAAACCAGCA
 GTGGCGGTTCTGTCTACAGGTTCTGTCTGCTTCCCACTTAACAGACCCATTTTGGCTTTC
 TATCACTCAAAGAACCAAGGTGGGAAGCTGGCAGTGCTTGGTTTATGTCACATGTTTCACT
 GATCAATATTTGGACAAAGAAGAAAACAGCAAAATCATGGATGTTGTTTTCCAGTGGCTC
 ACGACAGGAGACATCCACCTAAACCAGATTGATGCTGAGGACCCAGAGATTTCTGACTAC
 ATGATGCTGCCCTACACAGCCACCCTATCAAAGCGGAATCGAGAGTGTCTCCAGGAGAGT
 GATGAGATCCCAAGGGACTTTACCACCCTCTTCGACCTGTCCATCTTCCAGCTGGATACC
 ACCTCCTTCCACAGCGTCATCGAGGCTCACGAGCAGCTAAATGTGAAACATGAACCACTC
 CAGCTCATCCAGCCTCAGTTTGAGACGCCGCTGCCAACCTTCAGCCTGCGGTTTTCTCT
 CCCAGTTTCCGGGAGTTACCACTCCTCCTCTGGAGCTATTTGATTTAGATGAAACGTTT
 TCCTCTGAGAAGGCACGGCTGGCTCAGATTACCAATAAGTGTACTGAAGAAGACCTGGAA
 TTTTATGTCAGGAAGTGTGGTATATTCTTGGAGTAACCAGTAACTACCAAAGGACCAA
 CAGGATGCCAAACATATCCTTGAGCACGTCTTCTTCCAAGTGGTGGAGTTCAAGAAATTG
 AACAGGAACATGACATCGATACAAGTGAACAGCATTCCAGAACAAATTTCTGA

Clone variation with respect to NM_016004.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016004 unedited
CACATTGTAAACGACTCACTATAGNNGCGCGCGNAATTTCGGCACGAGGCGCCTCCC
GGCGCACCGACGCGCCTCTCCGTTACTAAGCGGCCTTGGATACCTGGCCGCGGGATGCT
GGGCGCGTCAAGTGAGCGGTGGTCGCTGGGCCTCAGGTAACCATGGAGAAAGAGCTGCG
GAGCACCATTCTTTCAATGCCTACAAAAAGGAGATATTTACCACCAACAATGGCTACAA
ATCCATGCAGAAAAAATTCGGAGTAATTGGAAGATTACAGCTTAAAGATGAAATCAC
ATCTGAGAAGTTAAATGGAGTAAACTGTGGATTACAGCTGGGCCAAGGAAAAATTTAC
TGCAGCTGAGTTTGAAATCCTGAAGAAATATCTTGACACTGGTGGAGATGTCTTTGTGAT
GCTAGGAGAAGGTGGAGAATCCAGATTTGACACCAATATTAACCTTTTACTAGAAGAATA
TGAATCATGGTTAATAATGATGCTGTGGTTAGAAATGTATATCACAATATTTCCATCC
TAAAGAAGCTCTAGTTTCCAGTGGAGTCTTGAACAGGGAATTAGCCGAGCTGCAGGAA
GGCTGTGCTGNGATCATTGATGAGGAAAGCAGTGGAAACAATGCCAGGCTCTCACCTT
TGTGTATCCCTTTTGGTGCCACATTGAGTGTATGAAACCAGCAGTGGCGGNTCTGTCTA
CAGGTTCTGTCTGCTTCCCACTTACAGACCCATTCTGCTTCTATCACTCAAAGACCCAG
GTTGGGAACCTGCCAATGCTTGTGTACATGCACATGTTCACTGATCAATATTTTGCCAA
GAGAAAAACCCAATCATGGATGTTGTTTCAGTGCCTCCGAAAGAGAACATCCCCTCA
ACCAAATTGAGCCTGAGACCCCAAAATT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016004 unedited
ACCGCGCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTAGGGGATAAAAAACAAATGCCACCATTCTTTAATTT
TTAAAAATGGAATGTTTTTACATAAGGGTTTTGGGAAAAATCTTATACCTATTTGAGTT
TTACAAAAATGCCTTTCCCTTCCAGAGCTCATGGAGGAAAAATGTTTAAACAATTTG
ATAAGGAGTTGAAAAACATTTGAAAAATAGTTTACAAAAAGAGAAATCAGGGGGCCGAAAA
AGCTTTAAGAGGCATGGTTTTAAAAATGTGCGGGAATGGTGCTTCACTTCTATTGACG
CCATGTTCTGTTAAATTTCTGGAACCTCCCCCCTTGGAAAAAACTGCTCTAAGGTT
TGTCCGGCATCCCTGGTGGTCTTTGTGAATCTTACCTGGGCACCTCAAAAAATTTCCCC
CCCTTCCCGACCTAAAACTCCAGGCTTCTTAAAGACCCTATTGGGAACCTGAACCCAC
CCGCCCTCTTCAAAGGGAACCTCCTATTAAATTAATCTCCCAGGAGGAGGGGAAT
CTCCGGAATTTGGGAGGAGAACCCCGTGGCTTCCAGGGGTGTTTCGTCTCTTTCACACTG
CTGGGCCCGAAAAAGCCCGGACGTCTAATGCTCCACTATCAGGTCGCGGCGCCCTCTCA
TAACGCTGGGGAAGGTGTGGCTTACATACCAGAAAATTAACACGTTCCATACGTGTGTTAC
ATTCTTTTGGTTTTTACCCCTTTTGTAACTCCTCTTCTCACCTCCTTGTAGGGCGGTG
GTTTCATGAACAACCACTCACCACAAAATCTTGGCCCCCACAATCGGCGCACGCGG
GTGTCCCGTGCCGACCCC

Restriction Sites:

NotI-NotI

ACCN:

NM_016004

Insert Size:

1720 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_016004.2](#), [NP_057088.2](#)

RefSeq Size: 1675 bp

RefSeq ORF: 1314 bp

Locus ID: 51098

UniProt ID: [Q9Y366](#)

Cytogenetics: 20q13.12

Gene Summary: This gene encodes a conserved proline-rich protein that is a component of the intraflagellar transport-B (IFT-B) core complex. The encoded protein is essential for the integrity of the IFT-B core complex, and for biosynthesis and maintenance of cilia. Mutations in this gene are associated with ciliopathy that affects the skeleton. [provided by RefSeq, Oct 2016]
Transcript Variant: This variant (1) encodes the longest isoform (1). Both variants 1 and 2 encode the same isoform (1).