

Product datasheet for **SC316552**

CMG1 (IFT74) (NM_001099223) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CMG1 (IFT74) (NM_001099223) Human Untagged Clone
Tag:	Tag Free
Symbol:	IFT74
Synonyms:	CCDC2; CMG-1; CMG1
Vector:	<u>pCMV6 series</u>



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001099223, the custom clone sequence may differ by one or more nucleotides

```

ATGCCAGCAATCACAAATCTTCAGCAGCTCGCCCTGTTTCAAGAGGTGGAGTTGGGTTA
ACAGGAAGGCCTCCTTCTGGGATACGACCCCTATCAGGAAATATTCGAGTGGCAACTGCA
ATGCCACCTGGGACAGCAAGACCAGGTTCTCGTGGTTGTCCATAGGGACTGGTGGAGTT
CTGTCTTCTCAAATCAAAGTTGCCCATCGCCCTGTAACACAACAAGTTTACTGACTGGAATG
AAAATGGGACGAAAGGTCGCCAGAGGCAAAATTTAGACAAATCTTACTATCTTGGGCTT
CTTAGAAGTAAAATAAGTGAACCTACAACCTGAAGTTAATAAACTTCAGAAGGGAATAGAA
ATGTACAATCAAGAGAATTCAGTATATTTGTCATATGAAAAGAGGGCTGAGACTTTAGCT
GTTGAGATAAAAGAGCTTCAAGGACAACACTAGCAGACTACAACATGTTGGTAGATAAACTT
AATACCAACACTGAAATGGAAGAAGTAATGAATGATTACAATATGCTTAAAGCTCAAAAT
GATCGAGAAACACAAAGTTTGGATGTCATATTTACTGAAAGACAAGCGAAAAGAAAAACAA
ATCAGAAGTGTGCAAGAAGAAATGAACAGGAAAAACAAGCAACAGATGACATTATCAA
AATATGCTTTTTGAAAACCAAGTCAAGTACCTAGAGATGAAAACCAAAATGAGAACTG
TTACAGGAATTAGATACACTTCAACAACAATTGGATTCACAGAACATGAAAAAGAGAGC
CTGGAAGCAGAAATAGCTCACTCCAGGTGAAACAGGAGCGGTATTGCTGCATGAAAA
CTTTATGAGTTGGAGTCCCATCGAGATCAAATGATTGCAGAAGACAAAAGCATAGGATCT
CCAATGGAAGAGAGAGAGAAATTAAGCAGATTAAAGATGATAATCAGGAAATAGCC
AGCATGGAAGACAGTTAACAGATACAAAAGAAAAGATAAATCAGTTTATTGAAGAAAT
AGACAACCTTGACATGGATTTAGAGGAACACCAAGGTGAAATGAACCAGAAATACAAGGAG
CTAAAGAAAAGGGAGGAACATATGGACACTTTTATTGAGACTTTTGAGGAAACAAAGAAT
CAGGAACCTGAAACGAAAGGCACAGATAGAAGCCAACATTGTTGCACTCTTGGAGCACTGC
AGTCGAAATATAAATCGTATAGAACAGATATCCTCTATCACCAATCAAGAGCTAAAGATG
ATGCAGGATGACCTCAATTTTAAATCTACTGAAGTGCAGAAATCACAAAGTACAGCTCAG
AATTTGACTTCAGACATTCAACGCTCGAGTTGGATCTGCAGAAAATGGAGCTTCTAGAA
AGTAAGATGACTGAAGAACAGCATTCTCTAAAAAGCAAAATTAAGCAAATGACAACCTGAT
CTGGAGATATATAATGATTTGCCAGCTTTAAAATCATCAGGTGAAGAAAAGATAAAGAAA
TTACATCAGGAGAGAATGATATTATCAACCCACAGAAATGCCTTTAAGAAAATAATGGAG
AAGCAAAACATAGAGTATGAGGCACTAAAAACACAATTGCAAGAAAATGAGACACATTCT
CAGCTTACAAATTTGGAGAGAAAGTGGCAACACCTTGAGCAAAATAATTTTGCATGAAA
GAATTCATAGCAACCAAGAGTCAAGAGAGTGATTACCAGCAATTAAGAAAATGTGACC
AAGCAGATTGCAGAGTACAATAAAACCATCGTGGATGCTTTACATAGCACAGCGGAAAC

```

- Restriction Sites:** Please inquire
- ACCN:** NM_001099223
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_001099223.1](#), [NP_001092693.1](#)

RefSeq Size: 2139 bp

RefSeq ORF: 1803 bp

Locus ID: 80173

UniProt ID: [Q96LB3](#)

Cytogenetics: 9p21.2

Gene Summary: This gene encodes a core intraflagellar transport (IFT) protein which belongs to a multi-protein complex involved in the transport of ciliary proteins along axonemal microtubules. IFT proteins are found at the base of the cilium as well as inside the cilium, where they assemble into long arrays between the ciliary base and tip. This protein, together with intraflagellar transport protein 81, binds and transports tubulin within cilia and is required for ciliogenesis. Naturally occurring mutations in this gene are associated with amyotrophic lateral sclerosis--frontotemporal dementia and Bardet-Biedl Syndrome. [provided by RefSeq, Mar 2017]
Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2, and 3 encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.