

Product datasheet for **SC316512**

CMG1 (IFT74) (NM_001099224) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CMG1 (IFT74) (NM_001099224) Human Untagged Clone
Tag:	Tag Free
Symbol:	CMG1
Synonyms:	CCDC2; CMG-1; CMG1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001099224, the custom clone sequence may differ by one or more nucleotides ATGGCCAGCAATCACAAATCTTCAGCAGCTCGCCCTGTTTCAAGAGGTGGAGTTGGGTTA ACAGGAAGGCCTCCTTCTGGGATACGACCCCTATCAGGAAATATTCGAGTGGCAACTGCA ATGCCACCTGGGACAGCAAGACCAGGTTCTCGTGGTTGTCCCATAGGGACTGGTGGAGTT CTGTCTTCTCAAATCAAAGTTGCCCATCGCCCTGTAACACAACAAGGTTTGACTGGAATG AAAAGTGGGACGAAAGGTCCCCAGAGGCAAATTTAGACAAATCTTACTATCTTGGGCTT CTTAGAAGTAAAATAAGTGAACCTACAACCTGAAGTTAATAAACTCAGAAGGGAATAGAA ATGTACAATCAAGAGAATTCAGTATATTTGTCATATGAAAAGAGGGCTGAGACTTTAGCT GTTGAGATAAAAGAGCTTCAAGGACAACAGCAGACTACAACATGTTGGTAGATAAACTT AATACCAACACTGAAATGGAAGAAGTAATGAATGATTACAATATGCTTAAAGCTCAAAT GATCGAGAAACACAAAGTTTGGATGTCATATTTACTGAAAGACAAGCGAAAGAAAAACAA ATCAGAAGTGTGGAAGAAGAAATGAAACAGGAAAAACAAGCAACAGATGACATTATCAA AATATGTCTTTTGAACCAAGTCAAGTACCTAGAGATGAAAACCAAAATGAGAAACTG TTACAGGAATTAGATACACTTCAACAACAATTGGATTACAGAACATGAAAAAGAGAGC CTGGAAGCAGAAATAGCTCACTCCAGGTGAAACAGGAGGCGGTATTGCTGCATGAAAA CTTTATGAGTTGGAGTCCCATCGAGATCAAATGATTGCAGAAGACAAAAGCATAGGATCT CCAATGGAAGAGAGAGAAATTAAGCAGATTAAGATGATAATCAGGAAATAGCC AGCATGGAAGACAGTTAACAGATACAAAAGAAAAGATAAATCAGTTTATTGAAGAAAT AGACAACCTTGACATGGATTTAGAGGAACACCAAGATCCTACCAACTATGGATGAAAAATA CTTGAAAAAATACAGGAAGTTTCAAAAAGCAAGTT
Restriction Sites:	Please inquire
ACCN:	NM_001099224
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).



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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:	<ol style="list-style-type: none">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_001099224.1, NP_001092694.1</u>
RefSeq Size:	1571 bp
RefSeq ORF:	1119 bp
Locus ID:	80173
UniProt ID:	<u>Q96LB3</u>
Cytogenetics:	9p21.2
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) lacks several exons in the 3' coding region, uses an alternate 3' terminal exon, and differs in the 3' UTR, compared to variant 1. The encoded isoform (b) has a shorter and distinct C-terminus, compared to isoform (a).</p>