

Product datasheet for **SC307735**

KIF7 (NM_198525) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF7 (NM_198525) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIF7
Synonyms:	ACLS; AGBK; HLS2; JBTS12; UNQ340
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_198525 edited
 ATGGAGCAGTACAACTGCAGAGCGACCGCTGCGTGAGCAGCAGGAGGATGGTGGAA
 CTGCGGCTGCGGTTAGAGCTGGTGCGGCCAGGCTGGGGGGCCTGCGGCTCCTGAATGGC
 CTGCTCCCGGGTCTTTGTGCCTCGACCTCATACAGCCCCCTGGGGGTGCCACGCC
 CATGTGCTGGGCATGGTGCCGCTGCCTGCCTCCCTGGAGATGAAGTTGGCTCTGAGCAG
 AGGGGAGAGCAGGTGACAAATGGCAGGGAGGCTGGAGCTGAGTTGCTGACTGAGGTGAAC
 AGGCTGGGAAGTGGCTCTTCAGTGCTTCAGAGGAGGAAGAGGAGGAGGAGCCGCC
 AGGCGGACCTTACACCTGCGCAGAAATAGGATCAGCAACTGCAGTCAGAGGGCGGGGCA
 CGCCAGGGAGTCTGCCAGAGAGGAAGGCCAGAGCTTTGCCTTGAGGAGTTGGATGCA
 GCCATTCCAGGGTCCAGAGCAGTTGGTGGGAGCAAGGCCGAGTTCAGGCCGCCAGGTC
 CCCCCTGCCACAGCCTCAGAGTGCGGCTGGCCAGGCCAGCAGAAGATCCGGGAGCTG
 GCTATCAACATCCGATGAAGGAGGAGCTTATTGGCGAGCTGGTCCGCACAGAAAGGCA
 GCTCAGGCCCTGAACGCCAGCACAGCCAGCGTATCCGGGAGCTGGAGCAGGAGGCAGAG
 CAGGTGCGGGCCAGCTGAGTGAAGGCCAGAGGCAGCTGCGGGAGCTCGAGGGCAAGGAG
 CTCCAGGATGCTGGCGAGCGGTCTCGGCTCCAGGAGTTCCGCAGGAGGTCGCTGCGGCC
 CAGAGCCAGGTGCAGGTGCTGAAGGAGAAGAAGCAGGCTACGGAGCGGCTGGTGTCACTG
 TCGGCCAGAGTGAGAAGCGACTGCAGGAGCTCGAGCGGAACGTGCAGCTCATGCGGCAG
 CAGCAGGGACAGCTGCAGAGGCGGCTTCGCGAGGAGACGGAGCAGAAGCGGCGCCTGGAG
 GCAGAAATGAGCAAGCGGCAGCACCGCGTCAAGGAGCTGGAGCTGAAGCATGAGCAACAG
 CAGAAGATCCTGAAGATTAAGACGGAAGAGATCGCGGCTTCCAGAGGAAGAGCGCAGT
 GGCAGCAACGGCTCTGTGGTCAAGCTGGAACAGCAGCAGAAGATTGAGGAGCAGAAGAAG
 TGGCTGGACCAGGAGATGGAGAAGGTGCTACAGCAGCGCGGGCGCTGGAGGAGCTGGGG
 GAGGAGCTCCACAAGCGGGAGGCCATCCTGGCCAAGAAGGAGGCCCTGATGCAGGAGAAG
 ACGGGGCTGGAGAGCAAGCGCCTGAGATCCAGCCAGGCCCTCAACGAGGACATCGTGCGA
 GTGTCCAGCCGGCTGGAGCACCTGGAGAAGGAGCTGTCCGAGAAGAGCGGGCAGCTGCGG
 CAGGGCAGCGCCAGAGCCAGCAGATCCGCGGGGAGATCGACAGCCTGCGCCAGGAG
 AAGGACTCGTGCTCAAGCAGCGCTGGAGATCGACGGCAAGCTGAGGCAGGGGAGTCTG
 CTGTCCCCGAGGAGGAGCGGACGCTGTTCCAGTTGGATGAGGCCATCGAGGCCCTGGAT
 GCTGCCATTGAGTATAAGAATGAGGCCATCACATGCCGCCAGCGGTGCTTCGGGCCTCA
 GCCTCGTTGCTGTCCAGTGCGAGATGAACCTCATGGCCAAGCTCAGCTACCTCTCATCC
 TCAGAGACCAGAGCCCTCCTCTGCAAGTATTTGACAAGGTGGTGACGCTCCGAGAGGAG
 CAGCACCAGCAGCAGATTGCCTTCTCGGAAGTGGAGATGCAGCTGGAGGAGCAGCAGAGG
 CTGGTGTACTGGCTGGAGGTGGCCCTGGAGCGGCAGCGCTGGAGATGGACCGCCAGCTG
 ACCCTGCAGCAGAAGGAGCACGAGCAGAACATGCAGCTGCTCCTGCAGCAGAGTCGAGAC
 CACCTCGGTGAAGGGTTAGCAGACAGCAGGAGGAGTATGAGGCCCGGATTCAAGCTCTG
 GAGAAGGAACTGGGCCGTTACATGTGGATAAACAGGAACTGAAACAGAAGCTCGGCGGT
 GTGAACGCTGTAGGCCACAGCGGGTGGGGAGAAGAGGAGCCTGTGCTCGGAGGGCAGA
 CAGGCTCCTGGAATGAAGATGAGCTCCACCTGGCACCAGGCTTCTCTGGCTGTCCCC
 CTCCTGAGGGGGCCCCCGACCCGGGAGGAGACGCGGACTTGGTCCACGCTCCGTTA
 CCTTGACCTGGAAACGCTCGAGCCTGTGTGGTGAAGAGCAGGGGTCCCCGAGGAACTG
 AGGCAGCGGGAGGCGGCTGAGCCCTGGTGGGGCGGTGCTTCTGTGGGTGAGGCAGGC
 CTGCCCTGGAACCTTGGGCCCTTGTCCAAGCCCCGGCGGGAAGTGCAGCAGCCAGCCCG
 GGGATGATTGATGTCGGAAAAACCCCTGTAA

Restriction Sites: Please inquire

ACCN: NM_198525

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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_198525.1, NP_940927.1</u>
RefSeq Size:	4575 bp
RefSeq ORF:	2493 bp
Locus ID:	374654
UniProt ID:	<u>Q2M1P5</u>
Cytogenetics:	15q26.1
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a cilia-associated protein belonging to the kinesin family. This protein plays a role in the sonic hedgehog (SHH) signaling pathway through the regulation of GLI transcription factors. It functions as a negative regulator of the SHH pathway by preventing inappropriate activation of GLI2 in the absence of ligand, and as a positive regulator by preventing the processing of GLI3 into its repressor form. Mutations in this gene have been associated with various ciliopathies. [provided by RefSeq, Oct 2011]