

Product datasheet for **SC306207**

KIF6 (NM_145027) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	KIF6
Synonyms:	C6orf102; dJ137F1.4; dJ188D3.1; dJ1043E3.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>SC306207 representing NM_145027.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGTGAAGCAGACTATCCAGATATTCGCGAGGGTGAAGCCCCCTGTCCGAAGCACCAACAAGGGATT
TATTCCATAGATGAAGATGAAAAATTAATACCTAGCTTGGAAATCATCTTACCACGTGATTTGGCAGAT
GGGTTTGTGAATAATAAGCGAGAAAGCTACAAATTTAAATTTCAAAGAATTTTGTATCAGGATGCAAAC
CAAGAGACCGTTTTTGAACATTGCCAAACAGTTGCTGGGAGTGTCTTGGCAGGTTACAATGGTACC
ATCTTTGCATATGGGCAACAGGCAGCGGGAAGACATTCACATACACAGGGGTGCAGAGCGTTACAGT
GACAGAGGCATTATCCCAAGGACACTGTCTATCATTTTTGAACAGTTACAAAAGGACAGCAGCAAAATA
TATACAACACACATTTCTTATTTGGAATCTACAATGAATGTGGTTATGATCTTTTGGATCCCAAGACAT
GAAGCCTCCAGTTTGAAGATTTGCCGAAAGTGACAATACTGGAGGATCCTGATCAGAACATTACCTTG
AAAACTTGACTCTCCATCAGGCAACACAGAGGAAGAAGCTCTGAATTTGCTTTTTTGGAGACACC
AACCGAATGATTGCAGAGACTCCTATGAACCAAGCTTCAACCCGTTCCCACTGCATTTTACCATTTCAT
TTGTCAAGCAAGGAACAGGATCTGCAACTGTACGACATGCCAACTCCATCTGGTTGACCTGGCTGGT
TCAGAGCGAGTTGCAAAGACTGGAGTAGGGGGCCATCTTCTAACAGAGGCCAAGTATATCAACTTGTC
CTACATTACTTAGAACAGGTTATCATTGCCCTTCAGAAAAGCACCGTTTCGCACATTCTTATAGAAAC
TCCATGATGACCACTGTCTAAGAGACAGTTTGGGAGGGAAGTGCATGACAATATGATTGCAACACTC
TCCTTGGAGAAAAGGAATCTTGATGAGTCTATATCAACCTGCAGATTGTCACAGCGAGTGGCACTCATA
AAGAATGAAGCTGTTCTTAATGAAGAAATTAACCCAGATTAGTGATTAACGCCTACAAAAGGAATC
CAGGAAGTGAAGGATGAAGTGGCCATGGTCACTGGGAGCAGAGGACAGAGGCACTCACAGAAGCAGAG
CTCCTTCAGCTGGAAAACTAATAACATCTTTTGAAGACCAGGATTCAGACAGTAGATTAGAGGTT
GGCGCGGATATGCGTAAAGTTCATCACTGTTTTCATCATTTAAAGAACTATTGAATGACAAGAAGATC
CTTGAAAAAATACAGTCTCCTCTGAAAGCAAAGACCAAGATTGTCAAGAACCATTAAAAGAAGAAGAA
TATAGAAAGCTACGAGATATTTGAAACAGAGAGATAACGAAATCAATATCCTGGTCAACATGTTAAAA
AAAGAAAAGAAGAAAGCTCAGGAGGCTCTCCACTTGGCTGGCATGGATAGACGTGAATTGACAGAGTCC
CAGAGCCACCCCTCCGCTAGGAAACCCAGAAAGGTCAAAGAATGCGACTATCCTCAGCTCCCTCA
CAGGCCAGGACTTCAGCATTTTGGGAAAAGATCCAGTTTGTCTCACAAGAAAATAGGAATGAGAGAG
GAAATGTCTTAGGATGCCAGGAGGCTTTGAAATCTCAAGAGGGACACGCTGACAGCGTTACCATC
GATGACAACAAACAGATTCTGAAACAGAGATTTTCTGAAGCCAAGGCCCTGGGAGAAAGTATAAATGAA
GCAAGAAGTAAATTTGGTCACTGAAGGAAGAAATCACCCAGCGGCATATACAGCAAGTAGCCCTAGGA
ATCTCGGAAAAACATGGCCGTGCTCTGATGCCAGACAGCAGGAGGAGAAGCTGCGATCACAACCTGGAG
GAAGAAAAGAGAAGGTATAAAACAATGTTCACTCGCCTGAAAGCCCTGAAGGTGGAGATCGAGCACTTG
CAGCTGCTCATGGACAAGCCAAGGTGAAGCTACAGAAAGAGTTTGAAGTCTGGTGGCAGAGGAGGCC
ACCAACCTGCAGGTAAATTTCTCCAGCAGTGAATTCACCTCGATCACACGAAGCCATTTCTCCAGACATCT
GACTCCAGCATGAATGGTCCCACTCTCTTAACAAAAGTTCTGGAGGCTGGGAAGTCCAAGATCAA
GGCACTGGCAGATTGATGTCTGTGATGTGAATGCCAGGAAAATCCTGCCCTCGCTTGCCCACTCCA
CACAGCCAGAAACAGAGCAGCAGCAGCAGCCCACTGGAAGACAGCATCCCCAAGAGGCCAGTGTCTGCC
ATCCCTCTCACCGGAGACAGCCAGCGGACTCGGACATCATCGCTTCATCAAGGCCAGACAGAGCATT
CTGCAGAAGCAATGTTTGGGAAGCAATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

SgfI-MluI

ACCN:

NM_145027

Insert Size:

2445 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).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_145027.4</u>
RefSeq Size:	3972 bp
RefSeq ORF:	2445 bp
Locus ID:	221458
UniProt ID:	<u>Q6ZMV9</u>
Cytogenetics:	6p21.2
Protein Families:	Druggable Genome
MW:	92.6 kDa

Gene Summary:

This gene encodes a member of a family of molecular motors which are involved in intracellular transport of protein complexes, membrane organelles, and messenger ribonucleic acid along microtubules. Kinesins function as homodimeric molecules with two N-terminal head domains that move along microtubules and two C-terminal tail domains that interact with the transported cargo, either directly or indirectly, through adapter molecules. This gene is ubiquitously expressed in coronary arteries and other vascular tissue. A naturally occurring mutation in this gene is associated with coronary heart disease. [provided by RefSeq, May 2017]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). 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.