

Product datasheet for RC229433

KIF7 (NM_198525) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF7 (NM_198525) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIF7
Synonyms:	ACLS; AGBK; HLS2; JBTS12; UNQ340
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229433 representing NM_198525 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCTGGAGGCTCAGAGGCTGCCAGGGGCTGAGGAGGCCAGTGCGGGTTGCCCTGCGAGTTCGAC
CACTGCTGCCAAGGAGCTGCTGCACGGGCATCAGAGCTGCCTGCAGGTGGAGCCAGGGCTTGGCCGCT
CACTCTGGGCCGTGACCGACACTTTGGCTTCCACGTGGTGTGCTGGCCGAGGATGCGGGGCAGGAGGCCGTG
TACCAGGCTGCGTTAGCCCTCCTTGAGGCCTTCTTCGAGGGTCAATGCCACTGTCTTTGCCTATG
GTCAGACGGGCTCAGGAAGACATACACCATGGGGGAGGCCAGTGTGGCCTCCCTCCTTGAGGATGAGCA
GGGCAATTGTCGGAGGGCCATGGCCGAGGCCTCAAGCTCATCGATGAGAACGACCTGCTTGACTGTCTG
GTACATGTGTCCTACCTGGAAGTGTACAAGGAGGATTCAGAGACCTGCTCGAGGTGGGCACTGCCAGCC
GTGACATCCAGCTCCGGGAAGATGAGCGCGGGAATGTTGTGCTGTGCGGGGTGAAGGAGGTGCGAGTGG
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ACCCTGCAGAACCAGGTGGCGGGCTGGAGGAGGAGAACCAGACTTTCTGGCTGCGCTGGAGGACGCCA
TGGAGCAGTACAACTGCAGAGCGACCGGCTGCGTGAGCAGCAGGAGGAGATGGTGGAACTGCGGCTGCG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC229433 representing NM_198525
Red=Cloning site Green=Tags(s)

MGLEAQRLPGAEAPVRVALRVRPLLPKELLHGHSCLQVEPGLGRVTLGRDRHFGFHVLAEDAGQEA
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 NHLSSRSHTVFTVLEQRGRAPSRLPRPAPGQLLVSKFHFDLAGSERVLKTGSTGERLKESIQINSLL
 ALGNVISALGDPQRRGSHIPYRDSKITRILKDSLGGNAKTVMIACVSPSSDFDETLNTLNYASRAQNI
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 QKKWLDQEMEKVLQORRALEELGEELHKREAILAKKEALMQEKTGLESKRLRSSQALNEDIVRVSSRLEH
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 ALDAAIEYKNEAITCRQVLRASALLSQCEMNLMAKLSYLSSSETRALLCKYFDKVVTLREEHQQAIA
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Restriction Sites:

SgfI-MluI

Cloning Scheme:

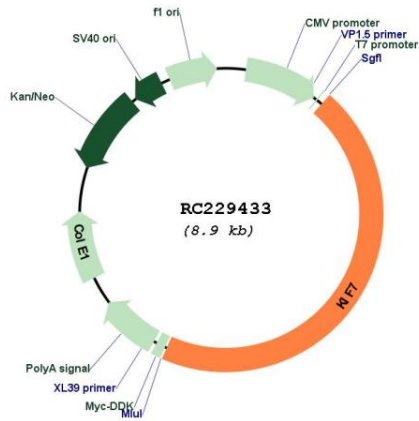


ACCN: NM_198525

ORF Size: 4029 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_198525.3
RefSeq Size:	4575 bp
RefSeq ORF:	4032 bp
Locus ID:	374654
UniProt ID:	Q2M1P5
Cytogenetics:	15q26.1
Protein Families:	Druggable Genome
MW:	150.6 kDa
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]

Product images:



Circular map for RC229433