

## Product datasheet for **SC123136**

### **KIF12 (NM\_138424) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KIF12 (NM_138424) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIF12
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

>OriGene sequence for NM\_138424 edited  
 GGAAGACATCAGGATGTACCATCTGCCCTTCTGTCTGGACCCAGGGTACGTCCCATGAGC  
 GCGGCCGAGCTGCGTCGAGGGCAGCAGAGCGTGTGCACTGCTCAGGGACCCGGACTCTG  
 CAGTTTCTCCTGCACTGTTTTACCTTTGGCCAGACGGGCTCTGGGAAGACCTACACCCT  
 GACTGGACCCCTCCCCAGGGGAGGGGGTGCCTGTACCCCCAGCCTGGCTGGCATCAT  
 GCAGAGGACCTTCGCCTGGCTGTTGGACCGCGTGCAGCACCTGGTGCCCTGTACCCT  
 TCGCGCCTTTATCTGGAGATCTACAATGAGCAGGTTCTGGGACTTGCTGAGCCTGGGGTC  
 TCCCCGGCCCTCCCTGTTTCGCTGGAACAAGACTCGGGGTTCTATGTGGAGCAGCTGCG  
 GGTGGTGAATTTGGGAGTCTGGAGGCCCTGATGGAACCTTTGCAAACGGGTCTCAGCCG  
 TCGAAGGAACTCAGCCACACCCTGAACCAGGCCTCCAGCCGAAGCCATGCCCTGCTCAC  
 CCTTTACATCAGCCGTCAAACCTGCCAGCAGATGCCTTCTGTGGACCCTGGGAGCCCCC  
 TGTTGGTGGGAAGCTGTGCTTTGTGGACCTGGCAGGCAGTGAGAAGGTAGCAGCCACGGG  
 ATCCCGTGGGAGCTGATGCTTGAGGCTAACAGCATCAACCGAAGCCTGTGGCCCTGGG  
 TCACTGCATCTCCCTGCTGCTGGACCCACAGCGGAAGCAGAGCCACATCCCTTTCCGGGA  
 CAGCAAGCTCACCAAGTTGCTGGCAGACTCACTGGGAGGGCGGGGTACCCTCATGGT  
 GGCTGCGTGTCCCTCAGCCAGTGCCTTCTGAGACTCTCAGCACCTGCGATATGC  
 AAGCCGAGCTCAGCGGGTACCACCCGACCACAGGCCCCCAAGTCTCCTGTGGCAAAGCA  
 GCCCAGCGTTTGGAGACAGAGATGCTGCAGCTCCAGGAGGAGAACCCTGCGCTGCAGTT  
 CCAGCTGGACCAAATGGACTGCAAGGCCTCAGGGCTCAGTGGAGCCCGGGTGGCTGGGC  
 CCAGCGGAACCTGTACGGGATGTACAGGAGTTTATGCTAGAGAATGAGAGGCTCAGGAA  
 AGAAAAGAGCCAGCTGCAGAATAGCCGAGACCTGGCCAGAATGAGCAGCGCATCCTGGC  
 CCAGCAGGTCCATGCAGTACAGAGGGCTCTCCTCTGCTGCTACCATCACCAGCAGGG  
 TCCCTGGCTGACCCACCGTGTCCCTGCTTGTGATGGCCCCAGCTCCCCCTGGCATGCAT  
 GCCACCCCTCTACTCTGCCCTGCTGCCACATCTGCCACTGTGTGAGTGGCCCTGGC  
 CCACTGGGCTGCTGCCAGGGAGCACCACTGCCCCAGGTGTTGGACCCTGAGGCCTC  
 AGGTGGCAGGCCCCATCTGCCCGCCCCACCCTGGGCACCCCATGCAGCCCTGGCTC  
 TGCCAAGTGCCCAAGAGAGAGGAGTACAGTACTGGACTCAGACCCGAGTCTGGCAGA  
 GATGTTGACGGAGGAGGAGTACCTTCTGCACCTCCCTGCTGTGAGGCCCCCGAA  
 GACATCACCAGGGCTCAGAGTGGGGCCGGGTTCCAAACCTGGCCAGAGACTGGAGGC  
 CCTCAGAGACCAGATTGGCAGCTCCCTGCGACGTGGCCGACGCCACCCCTGCAGTGA  
 GGGCGCACGGAGCCAGGCCAAGTCTCCCTCCCATTGAAGGCCAAGTGGGAACCCAGG  
 AGACTGCTGTGTGACCTCAGACTGGGCTCCACACTCTTGGGCTTCACTGCCCCATCTGC  
 TGAATGGAGACAGCAGCTGCTACTCCACCTGCAGCTGGGCTAGGGGCGGGGACTGGGGT  
 GCTATTTAGGGGAACAAGGGGATTCAGGAGAAACCAGGCAGCAGGGGATGAAATACATGA  
 ATAAAGAGAGGCATCAGCTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_138424 unedited  
 TATAGGCGCCGCGNATCCCGGATATCGTCGACCCACGCGTCCGCCNACGCGTCCGG  
 GNAANACATCAGGATGTACCATCTGCCCTTCTGTCTGGACCCAGGGTACGTCCCATGAGC  
 GCGGCCGAGCTGCGTCGAGGGCAGCAGAGCGTGTGCACTGCTCAGGGACCCGGACTCTG  
 CAGTTTCTCCTGCACTGTTTTACCTTTGGCCAGACGGGCTCTGGGAAGACCTACACCCT  
 GACTGGACCCCTCCCCAGGGGAGGGGGTGCCTGTACCCCCAGCCTGGCTGGCATCAT  
 GCAGAGGACCTTCGCCTGGCTGTTGGACCGCGTGCAGCACCTGGTGCCCTGTACCCT  
 TCGCGCCTTTATCTGGAGATCTACAATGAGCAGGTTCTGGGACTTGCTGAGCCTGGGGTC  
 TCCCCGGCCCTCCCTGTTTCGCTGGAACAAGACTCGGGGTTCTATGTGGAGCAGCTGCG  
 GGTGGTGAATTTGGGAGTCTGGAGGCCCTGATGGAACCTTTGCAAACGGGTCTCAGCCG  
 TCGAAGGAACTCAGCCACACCCTGAACCAGGCCTCCAGCCGAAGCCATGCCCTGCTCAC  
 CCTTTACATCAGCCGTCAAACCTGCCAGCAGATGCCTTCTGTGGACCCTGGNGGAGCCCC  
 TGTTGGTGGGAAGCTGTGCTTTGTGGACCTGGCAGGCAGTGAGAAGGTAGCAGCCACGGG  
 ATCCCGTGGGAGCTGATGCTTGAGGCTAACAGCATCAACCGAAGCCTGTGGCCCTGG  
 TCACTGCATCTCCCTGCTGCTGGACCCACAGCGGAAGCAGAGCCACATCCCTTTCCGGGN  
 ACAGCAAGCTCACCCAGTTGCTGG

<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_138424
<b>Insert Size:</b>	2024 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_138424.1</a> , <a href="#">NP_612433.1</a>
<b>RefSeq Size:</b>	2024 bp
<b>RefSeq ORF:</b>	1542 bp
<b>Locus ID:</b>	113220
<b>UniProt ID:</b>	<a href="#">Q96FN5</a>
<b>Cytogenetics:</b>	9q32
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	This gene encodes a member of the kinesin superfamily of microtubule-associated molecular motors with functions related to the microtubule cytoskeleton. Members of this superfamily play important roles in intracellular transport and cell division. A similar protein in mouse functions in the beta cell antioxidant signaling cascade, acting as a scaffold for the transcription factor specificity protein 1 (Sp1). Mice that lack this gene exhibit beta cell oxidative stress resulting in hypoinsulinemic glucose intolerance. [provided by RefSeq, Jul 2016]