

## Product datasheet for **MR211297**

### **Kif5c (NM\_008449) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kif5c (NM_008449) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kif5c
Synonyms:	Khc; KINN; NKHC; NKHC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR211297 representing NM\_008449  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGATCCAGCCGAATGCAGCATCAAAGTGATGTGCCGGTCCGGCCCTCAACGAAGCGGAGATCC  
 TCCGCGGGGACAAATTCATCCCCAAATCAAGGCGAGGAGACGGTGGTATCGGGCAAGGGAAGCCGTA  
 TGTCTTTGACCGAGTGCTGCCGCCAACACAACCCAGGAGCAGGTCTACAATGCCTGTGCAAAGCAGATT  
 GTCAAAGATGTCCTTGAGGGTTAATGGAACAATTTTTGCATATGGGCAGACTTCATCAGGAAAACTC  
 ATACCATGGAGGGGAAGTTACATGATCCTCAGCTTATGGGTATCATTCCAAGGATTGCACATGATTTTT  
 TGATCACATCTATTCCATGGACGAGAACCTGGAGTTTCATATCAAGTTTCTATTTTGAGATCTACTTG  
 GACAAAATAAGGGACTTGCTTGATGTGTCCAAGACCAACTGGCAGTTCATGAAGACAAAAACAGAGTCC  
 CCTATGTAAGGGGTGCACCGAGAGTTTGTGTCAAGCCCGAGGAGGTGATGGATGTGATCGATGAGGG  
 CAAAGCAAACCGACACGTGGCTGTGACAAACATGAACGAACACAGCTCTAGGAGTCACAGTATCTTCTCTG  
 ATTAACATTAAGCAAGAGAATGTGGAGACTGAAAAAACTCAGCGGGAAGCTGTATTTGGTTGATTTGG  
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 GTCTTTGTCTGCTCTTGAAATGTGATTTCTGCCTTGGCAGAAGGGACAAAAACACATGTACCGTACCGG  
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 GTTCTCCTTCAGTCTTCAATGAAGCCGAGACCAAGTCCACGCTGATGTTTGGACAGAGAGCAAAGACCAT  
 CAAGAATACAGTCTCTGTGAAGTGAAGTAAACAGCAGAAGAGTGAAGAAGAAATGAAAAAGAGAAA  
 GAGAAGAACAAGGCTTGAAGAGTGTCTCCAGCATCTGGAGATGGAGCTGAACAGGTGGAGGAACGGGG  
 AAGCTGTACCCGAGGACGAACAGATCAGCGCCAAGGACCAAGAGCCTAGAGCCCTGTGACAACACACC  
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 TGAAGCAACAGATGTTGGATCAGGATGAGCTCCTGGCTTCCACGAGAAGGGACTATGAGAAGATCCAGGA  
 GGAGCTGACACGCCTCCAGATCGAAAAAGAGCAGCTAAAGACGAAGTGAAGAAGTCTCCAGGCCCTG  
 GAGGAGCTGGCTGTCAATTACGACCAGAAGTACAAGAAGTGGAGGACAAGACCAGGGCCACAGCAAC  
 TGACTGATGAGCTGGCCAGAAAACGACGACACTGACAACCACCCAGCGAGAGCTGAGTCAGCTGCAAGA  
 GCTTAGTAACCACCAGAAAAAGAGGGCCACAGAGATCCTGAACCTGCTTCTCAAGGACCTGGGGGAGATA  
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 CCATGGCAGCCCTGTACATTAGCAAGATGAAGTCGGAGGTCAAGTCTCTCGTGAACCGCAGCAAGCAGCT  
 GGAGAGTGCCAGATGGACTCTAACAGGAAGATGAACGCCAGTGAGCGGAGCTGGCAGCGTGCCAGTTG  
 CTTATCTCACAGCACGAAGCCAAGATCAAGTCTCTGACAGACTACATGCAGAACATGGAACAGAAGAGGC  
 GGCAGCTGGAAGAGTCCCAGGACTCCCTCAGCGAGGAAGTGGCCAAGCTCCGGGCCAGGAAAAATGCA  
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 TTGAGGAGAAGCAGAGAATCATTGATGAGATCCGGGATTTGAATCAGAACTGCAACTGGAACAGGAGAG  
 GCTCAGCTCTGATTATAACAAGCTGAAAAATAGAGGACCAGGAGAGAGAAGTGAAGTGGAGAAGCTCCTA  
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 TCCAGACCCTTATAACCTGCGCAAACCTTTCGTCAGGATTTGACAACCCGGGTGAAAAAGAGTGTGGA  
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 TGGAGAAGAGGCTTCGTGCTACCGCAGAACCGTCAAGGCCTGGAGAGTGCCTGAAAGAGGCCAAGGA  
 GAATGCCATGAGGGACCGAAAACGCTACCAGCAGGAAGTAGATCGCATCAAGGAGGCTGTGCGAGCCAAG  
 AACATGGCCAGGAGGGCACATTCGGCTCAGATCGCCAAGCCATCCGCCAGGCCATTACCCAGCATCAT  
 CTCGACAGCTGTCCATGCCGTCCGAGGAGGAGGAGTGGCTCTCAAACCTACTCACTACCAGAAA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211297 representing NM\_008449  
 Red=Cloning site Green=Tags(s)

MADPAECSIKVMCRFRPLNEAEILRGDKFIPKFKGEETVIVIGQGKPYVFDRLVPPNTTQEYVYNACAKQI  
 VKDVLLEGYNGTIFAYGQTSSGKTHMEGKLHDPQLMGIIPRIAHDIFDHIYSMDENLEFHIVSYFEIYL  
 DKIRDLLDVSKTNLAVHEDKNRVPYVKGCTERFVSSPEEVMVDIDEGKANRHVAVTMNEHSSRSHSIFL  
 INIKQENVETEKKLSGKLYLVDLAGESEKVSKTGAEGAVLDEAKNINKLSALGNVISALAEGTKTHVPYR  
 DSKMTRILQDSLGGNCRTTIVICCSPSVFNEAETKSTLMFGQRAKTIKNTVSVNLELTAEWKKKYEKEK  
 EKNKALKSVLQHLEMLNRWRNGEAVPEDEQISAKDQKSLPCDNTPIIDNITPVVDGISAEEKYEDEE  
 TSLYRQLDDKDEINQSSQLAEKLLKQMLDQDELLASTRRDYEKIQEELTRLQIENEAAKDEVKEVLQAL  
 EELAVNYDQKSQEVEDKTRANEQLTDELAQKTTTLTTTQRELSQLQELSNHQKRATEILNLLKDLGEI  
 GGIIGTNDVKTADVNGVIEEFIMARLYISKMKSEVKS LVNRSKQLESAQMDSNRKMNASERELAACQL  
 LISQHEAKIKSLTDYMQNMEQRRQLEESQDSLSEELAKLRAQEKMHVSVFQDKEKEHLTRLQDAEEVKK  
 ALEQQMESHREAHQKQLSRLRDEIEEKQRIIDEIRDNLQKQLQEQERLSSDYNKLIKIEDQEREVKLEKLL  
 LLNDKREQAREDLKGLEETVSRELQTLHNLRLKLFVQDLTTRVKKSVELSDDDGGGSAQKQKISFLENNL  
 EQLTKVHKQLVRDNADLRCELPKLEKRLRATAERVKALEKALEAKENAMRDRKRYQQEVDRIKEAVRAK  
 NMARRAHSQAIAKPIRPGHYPASSPTAVHAVRGGGGSSNSTHYQK

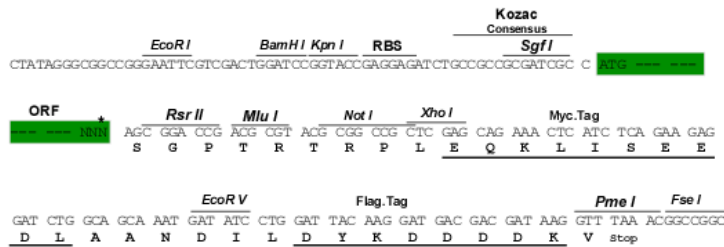
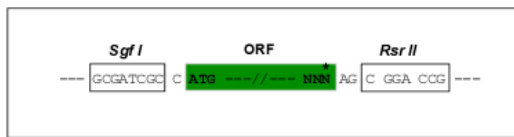
SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9094\\_f02.zip](https://cdn.origene.com/chromatograms/mm9094_f02.zip)

Restriction Sites: SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



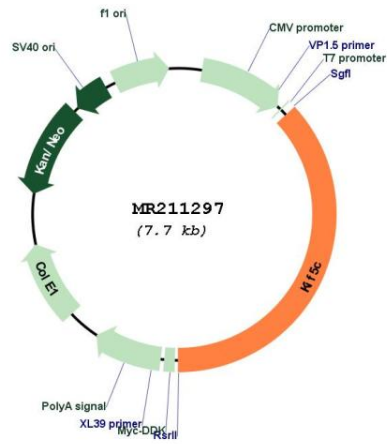
\* The last codon before the Stop codon of the ORF

ACCN: NM\_008449

ORF Size: 2868 bp

<b>OTI Disclaimer:</b>	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_008449.3</a>
<b>RefSeq Size:</b>	6867 bp
<b>RefSeq ORF:</b>	2871 bp
<b>Locus ID:</b>	16574
<b>UniProt ID:</b>	<a href="#">P28738</a>
<b>Cytogenetics:</b>	2 28.68 cM
<b>MW:</b>	109.3 kDa
<b>Gene Summary:</b>	Involved in synaptic transmission (By similarity). Kinesin is a microtubule-associated force-producing protein that may play a role in organelle transport. Mediates dendritic trafficking of mRNAs (PubMed:19608740). Required for anterograde axonal transportation of MAPK8IP3/JIP3 which is essential for MAPK8IP3/JIP3 function in axon elongation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211297