

Product datasheet for **RG203891**

KIF12 (NM_138424) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF12 (NM_138424) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIF12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG203891 representing NM_138424
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGAGACCTTCGCCTGGCTGTTGGACCGCTGCAGCACCTGGGTGCCCTGTACCCTTCGCGCCT
 CTTATCTGGAGATCTACAATGAGCAGGTTCTGGGACTTGTCTGAGCCTGGGGTCTCCCCGGCCCTCCCTGT
 TCGCTGGAACAAGACTCGGGGCTTCTATGTGGAGCAGCTGCGGGTGGTGAATTTGGGAGTCTGGAGGCC
 CTGATGGAACCTTTTCAAACGGGTCTCAGCCGTCGAAGGAACTCAGCCCACACCTGAACCAGGCCTCCA
 GCCGAAGCCATGCCCTGCTCACCTTTACATCAGCCGTCAAACTGCCAGCAGATGCCTTCTGTGGACCC
 TGGGGAGCCCCCTGTTGGTGGGAAGCTGTGCTTTGTGGACCTGGCAGGCAGTGAGAAGGTAGCAGCCACG
 GGATCCCGTGGGAGCTGATGCTTGAGGCTAACAGCATCAACCGAAGCCTGCTGGCCCTGGGTCACTGCA
 TCTCCCTGCTGTGGACCCACAGCGGAAGCAGAGCCACATCCCTTCCGGGACAGCAAGCTACCAAGTT
 GCTGGCAGACTACTGGGAGGGCGGGGTACCCTCATGGTGGCTGCGTGTCCCCTCAGCCCAGTGC
 CTTCTGAGACTCTCAGCACCTGCGATATGCAAGCCGAGCTCAGCGGGTACCACCCGACCACAGGCC
 CCAAGTCTCCTGTGGCAAAGCAGCCCCAGCGTTTGGAGACAGAGATGCTGCAGCTCCAGGAGGAGAACCG
 TCGCTGCAGTTCAGCTGGACCAAATGGACTGCAAGGCCTCAGGGCTCAGTGGAGCCCGGGTGGCTGG
 GCCAGCGGAACCTGTACGGGATGTACAGGAGTTCATGCTAGAGAATGAGAGGCTCAGGAAAGAAAAGA
 GCCAGCTGCAGAAATAGCCGAGACCTGGCCAGAATGAGCAGCGCATCCTGGCCAGCAGGTCCATGCACT
 AGAGAGGCGTCTCCTCTGCTGCTACCATCACCAGCAGGGTCTGGCTGACCCACCGTGTCCCTGC
 TTGATGGCCCCAGCTCCCCCTGGCATGCACTGCCACCCCTCTACTCTGCCCTGTGCCACATCTGCC
 CACTGTGTCGAGTGGCCCTGGCCACTGGGCTGCCTGCCAGGGGAGCACACCTGCCAGGTGTTGGA
 CCCTGAGGCCTCAGGTGGCAGGCCCCATCTGCCCGGCCCCACCTGGGCACCCCATGCAGCCCTGGC
 TCTGCCAAGTGCCCAAGAGAGAGGAGTACAGTACTGGACTCAGACCCGAGTCTGGCAGAGATGTTGA
 CGGAGGAGGAGGTGTTACCTTCTGCACCTCCCCTGCTGTGAGGCCCCGAAAGACATCACCAGGGCTCAG
 AGGTGGGGCCGGGTTCCAAACCTGGCCAGAGACTGGAGGCCCTCAGAGACCAGATTGGCAGCTCCCTG
 CGAGCTGGCCGACCCAGCCACCCTGCAGTGGGGCGCACGGAGCCAGGCCAAGTCTCCCTCCCCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG203891 representing NM_138424
 Red=Cloning site Green=Tags(s)

MQRTFAWLLDRVQHLGAPVTLRASYLEIYNEQVRDLLSLGSPRPLPVRWNKTRGFYVEQLRVVEFGSLEA
 LMELLQTGLSRRRNSAHTLNQASSRSHALLTLYISRQTAQMPSVDPGEPVGGKLCFVDLAGSEKVAAT
 GSRGELMLEANSINRSLALGHCSLLLDPQRKQSHIPFRDLSKLLADSLGGRGVTLMVACVSPSAQC
 LPETLSTLRYASRAQRVTTRPQAPKSPVAKQPQRLETEMLQLQEENRRLQFQLDQMDCKASGLSGARVAW
 AQRNLYGMLQEFMLENERLRKEKSQLQNSRDLAQNEQRILAQQVHALERRLLSACYHHQQGPGLTPPCPC
 LMAPAPPCHALPLYSCPCCHICPLCRVPLAHWACLPGEHHLPPQLDPEASGGRPPSARPPWPAPPCSPG
 SAKCPRERSHSDWTQTRVLAEMLTEEEVVPSPAPPLPVRPPKTSPLRGGAGVPNLAQRLEALRDQIGSSL
 RRRSQPPCSEGARSPGQVLPPH

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_138424

ORF Size: 1539 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:

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_138424.1](#), [NP_612433.1](#)

RefSeq Size: 2024 bp

RefSeq ORF: 1542 bp

Locus ID: 113220

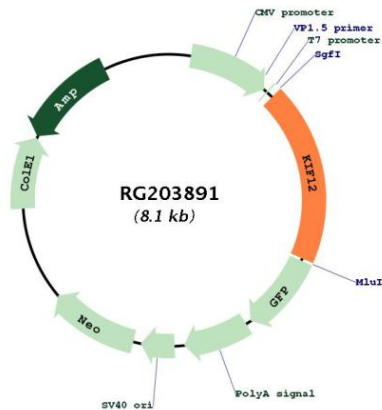
UniProt ID: [Q96FN5](#)

Cytogenetics: 9q32

Protein Families: Druggable Genome

Gene Summary: 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]

Product images:



Circular map for RG203891