

Product datasheet for **RG218482**

KIF9 (NM_022342) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF9 (NM_022342) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIF9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG218482 representing NM_022342
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGTACTAGGAAAAAGTTCATGCATTTGTCCGTGTCAAACCCACCGATGACTTTGCTCATGAAATGA
 TCAGATACGGAGATGACAAAAGAAGCATTGATATTCACCTAAAAAAGACATTCGGAGAGGAGTTGTCAA
 TAACCAACAGACAGACTGGTCGTTTAAGTTGGATGGAGTTCTTCACGATGCCTCCAGGACTTGGTTTAT
 GAGACAGTTGCAAAGGATGTGGTTTCTCAGGCCCTCGATGGCTATAATGGCACCATCATGTGTTATGGGC
 AGACGGGAGCTGGCAAGACATACACCATGATGGGGCAACTGAGAATTACAAGCACCGGGGGATCTCCC
 TCGTGCCTCGCAGCAGGTTTTTAGGATGATCGAAGAACGCCCCACACATGCCATCACTGTGCGTGTTC
 TACTTGAAATCTATAATGAGAGCCTGTTTGATCTCCTGTCCACTCTGCCCTATGTTGGACCCTCAGTCA
 CACCAATGACCATCGTGGAAAACCTCAAGGAGTCTTCATTAAGGGCTTGTCAGTTCACCTCACAAGTCA
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 GCTATCTTCACTGAGATTTGCCAGCAGGATGAAGCTAGTCACTGAGCCTGCCATCAATGAAAAGTAT
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 ACAGCTGACCAACCGCACCTTTGTGACCTATGACCCCATGGATGAAATCCAGATTGCTGAGATCAACTC
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 CTTGAATGAACGAGGAGGAAAGGGCCAGCGAGACCACACAGCACATCAATGCCATCAAGCGGGAGATTGAT
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 CACCGCCTGCTCATGGAATTTGACATCTGGTACAATGAGTCCTTTGTATCCCTGAGGACATGCAGATGG
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 TGACCAGGACAAATTCAGCCAGCTGCAGCAGAGGGTGCTTCTGAGGGCCCTGATTCCATCTCTTCTAC
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 GAAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

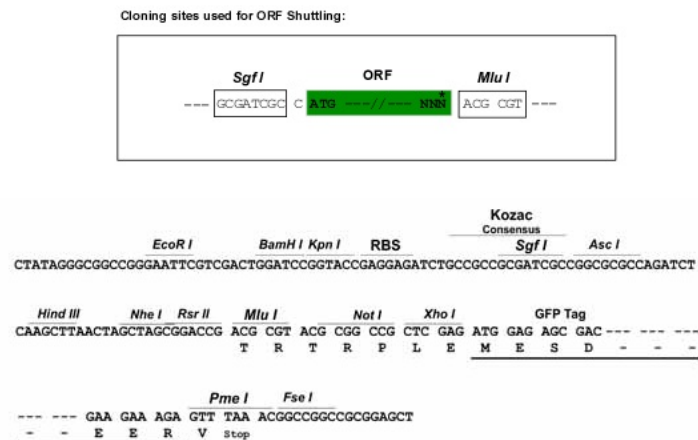
Protein Sequence: >RG218482 representing NM_022342
 Red=Cloning site Green=Tags(s)

MGTRKKVHAFVRVKPTDDFAHEMIRYGDDKRSIDHLLKKDIRRGVVNNQQTOWSFKLDGVLHDASQDLVY
 ETVAKDVVSQALDGYNGTIMCYGQTGAGKTYTMMGATENYKHRGILPRALQQVFRMIEERPTHAITVRVS
 YLEIYNESLFDLLSTLPYVGPSTPMTIVENPQGVFIKGLSVHLTSQEEDAFSLLFEGETNRRIASHTMN
 KNSSRSHCIFTIYLEAHSRTLSEEKYITSKINLVDLAASERLKGSGSEGQVLKEATYINKSLSFLEQAI
 ALGDQKRDPHIFRQCKLTHALKDSLGGNCNMVLVTNIYGEAAQLEETLSSLRFAARMKLVTEPAINEKY
 DAERMVKNLEKELALLKQELAIHDSLNRFTVTDPMDEIQIAEINSQVRRYLEGTLDEIDIIISLRQIKE
 VFNQFRVLSQQEQEVSTLRRKYTLIDRNDFAAISAIQKAGLVDVDGHLVGEPEGQNFGLGVAPFSTKP
 GKKAKSKKTFKEPLRPDTPPSKPVAFEEFKNEQGSEINRIFKENKSILNERRKRASETTHINAIREID
 VTKEALNFQKSLREKQKYEKGLMIIDEEFLILKLKDLKKQYRSEYQDLRDLRAEIQYCQHLVDQCR
 HRLLMEFDIWNESFVIPEDMQALKPGGSIRPGMVPVNRIVSLGEDDQDKFSQLQQRVLPPEGPDSSISFY
 NAKVKIEQKHNYLKTMMGLQQAHRK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022342

ORF Size: 2175 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_022342.5](#)

RefSeq Size: 3162 bp

RefSeq ORF: 2178 bp

Locus ID: 64147

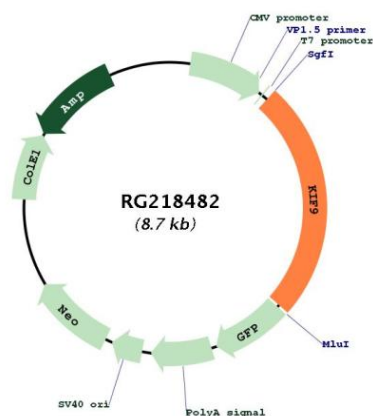
UniProt ID: [Q9HAQ2](#)

Cytogenetics: 3p21.31

Domains: kinesin

Protein Families: Druggable Genome

Product images:



Circular map for RG218482