

Product datasheet for **RG220554**

KLC4 (NM_201523) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLC4 (NM_201523) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KLC4
Synonyms:	bA387M24.3; KNSL8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220554 representing NM_201523
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAAGTGA**CTGGGTTTGGAGTGACCAGACCGGCAAGGTCCCCAGGCCAGGATGTCAGGCCTGGTGT**
TGGGGCAGCGGGATGAGCCTGCAGGCCACCGGCTCAGCCAAGAGGAGATCCTGGGAGCACACGGCTGGT
CAGCCAAGGGCTAGAGGCCCTACGCAGTGAACACCAGGCCGTGCTGCAAAGCCTGTCCAGACCATTGAG
TGTCTGCAGCAGGGAGGCCATGAGGAAGGGCTGGTGCATGAGAAGGCCCGGCAGCTTCGCCGTTCTATGG
AAAACATTGAGCTCGGGCTGAGTGAGGCCAGGTGATGCTGGCTCTAGCCAGCCACTGAGCACAGTGGA
GTCGGAGAAACAGAAGCTGCGGGCTCAGGTGCGGCGGCTATGCCAGGAGAACCAGTGCGTGGGATGAG
CTGGCTGGCACCCAGCAGCGCTACAGCGCAGTGAACAGGCTGTGGCTCAGCTGGAGGAGAAAAGAAGC
ACCTGGAGTTCCTGGGGCAGCTGCGGCAGTATGATGAGGATGGACATACCTCGGAGGAGAAAAGAAGCGA
TGCCACCAAGGATTCCTGGATGACCTCTTTCCTAATGAGGAGGAAGAGGACCCAGCAATGGCTTGTCC
CGTGGTCAAGGTGCTACAGCAGCTCAGCAGGGTGGATATGAGATCCAGCAAGGTTGCGGACGTTGCACA
ACCTGGTATCCAGTACGCAGCCCAAGGTCGCTATGAGGTGGCCGTGCCACTCTGTAAGCAGGCACTAGA
GGACCTGGAGCGCACATCAGGCCGTGGCCACCCTGATGTCGCCACCATGCTCAACATCCTTGCTTTGGTG
TATCGTGACCAGAATAAGTATAAGGAAGCTGCCACCTGCTGAATGATGCCCTTAGCATCCGGGAGAGCA
CCTTGGGACCTGACCATCCTGCTGTGGCTGCCACACTCAACAATTTGGCTGTGCTCTATGGCAAAGGGG
CAAGTACAAGGAGGCAGAGCCTCTGTGCCAGCGGGCACTGGAGATTCGAGAAAAGGTCCTGGGCACGAAT
CATCCAGATGTGGCAAACAGCTGAACAACCTGGCCCTCTGTGCCAAAACCAGGGCAAGTATGAGGCCG
TGGAACGCTACTACCAGCGAGCACTGGCCATCTACGAGGGCAGCTGGGGCCGGACAACCCTAATGTAGC
CCGGACCAAGAACAACCTGGCTTCTGTTACCTGAAACAGGGCAAATATGCTGAGGCTGAGACACTATAC
AAAGAGATCCTGACCCGTGCCATGTACAGGATTTGGTCTGTGGATGATGACCAAGCCATCTGGA
TGCATGCAGAGGAGCGGGAGGAAATGAGCAAAGCCGGCACCATGAGGGTGGGACACCCTATGCTGAGTA
TGGAGGCTGGTACAAGCCTGCAAAGTGAAGCAGCCACAGTGAACACTACTCTGAGAAACCTGGGAGCT
CTGTATAGGCGCCAGGAAAGCTGGAGGCTGCTGAGACCCTGGAGGAATGTGCCCTGCGGTCCCGGAGAC
AGGGCACTGACCCATCAGCCAGACGAAGTGGCAGAGCTGCTTGGGAGAGTATGGTAGAAGGACCTC
CCAGGAGGGCCCTGGAGACAGTGTGAAATTCAGGGAGGTGAAGATGCTTCTGTGGCTGTGGAGTGGTCC
GGGATGGCAGTGGACCTGCAGAGGAGTGGCTCTCTTGGCAAGATCCGGGATGTGCTCCGCAGAAGCA
GTGAACTCTTGGTGAAGGACTCCAGGGGACTGAGCCTCGGCCCTCCAGCAGCAACATGAAGCGAGCAGC
CTCCTTGAATATCTGAACCAACCTAGTGCAGCACCCCTCCAGGTCTCCCGGGCCCTCAGTGCCAGCACC
ATGGACCTCTTCAAGCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG220554 representing NM_201523
 Red=Cloning site Green=Tags(s)

MEVTGFGVTRPGKVPQARMSGLVLQQRDEPAGHRLSQEEILGSTRLVLSQGLEALRSEHQAVLQSLSQTIE
 CLQQGGHEEGLVHEKARQLRRSMENIELGLSEAQVMLALASHLSTVESEKQLRAQVRRLCQENQWL RDE
 LAGTQQR LQRSEQAVAQLEEEKKHLEFLGQLRQYDEDGHTSEEKEGDATKDSLDDLFPNEEEEDPSNGLS
 RGQGATAAQGGYEIPARLRTLHNLVIQYAAQGRYEVAVPLCKQALEDLERTSGRHPDVATMLNIALV
 YRDQNKYKEAHLNDALSIRESTLGPDPVAATLNNLAVLYGKRGKYEAEP LQRALEIREKVLGTN
 HPDVAKQLNNLALLCQNQKYEAVERYYQRALIYEGQLGPDNPVARTKNNLASCYLKQKYAE AETLY
 KEILTRAHVQEFQSVDDHKPIWMHAEEREEMSKSRHHEGGTPYAEYGGWYKACKVSSPTVNTTLRNLGA
 LYRRQGLKLEAAETLEECALRSRRQGTDPISQTKVAELLGESDGRRTSQEGPGDSVKFEGGEDASVAVEWS
 GDGSGTLQRSGSLGKIRDVLRSSSELLVRKLQGT EPRPSSNMKRAASLNYLNQPSAAPLQVSRGLSAST
 MDLSSSS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_201523

ORF Size: 1911 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_201523.3](#)

RefSeq Size: 2674 bp

RefSeq ORF: 1914 bp

Locus ID: 89953

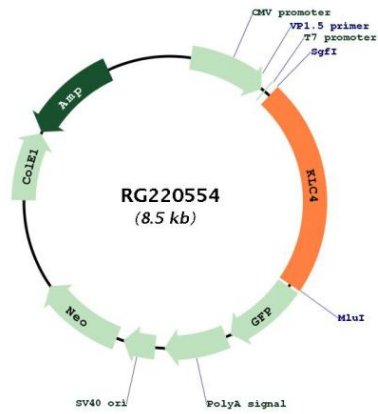
UniProt ID: [Q9NSK0](#)

Cytogenetics: 6p21.1

Protein Families: Druggable Genome

Gene Summary: Kinesin is a microtubule-associated force-producing protein that may play a role in organelle transport. The light chain may function in coupling of cargo to the heavy chain or in the modulation of its ATPase activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG220554