

Product datasheet for **RG217567**

KLC4 (NM_201522) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLC4 (NM_201522) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG217567 representing NM_201522
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCAGGCCTGGTGTGGGGCAGCGGGATGAGCCTGCAGGCCACCGGCTCAGCCAAGAGGAGATCCTGG
 GGAGCACACGGCTGGTCAGCCAAGGGCTAGAGGCCCTACGCAGTGAACACCAGGCCGTGCTGCAAAAGCCT
 GTCCCAGACCATTGAGTGTCTGCAGCAGGAGGCCATGAGGAAGGGCTGGTGCATGAGAAGGCCCGGCAG
 CTTGCGCGTTCTATGGAAAACATTGAGCTCGGGCTGAGTGAGGCCAGGTGATGCTGGCTCTAGCCAGCC
 ACCTGAGCACAGTGGAGTCGGAGAAACAGAAGCTGCGGGCTCAGGTGCGGCGGCTATGCCAGGAGAACCA
 GTGGCTGCGGGATGAGCTGGCTGGCACCCAGCAGCGGCTACAGCGCAGTGAACAGGCTGTGGCTCAGCTG
 GAGGAGGAAAAGAAGCACCTGGAGTTCCTGGGGCAGCTGCGGCAGTATGATGAGGATGGACATACCTCGG
 AGGAGAAAAGAAGGCGATGCCACCAAGGATTCCTGGATGACCTCTTCTAATGAGGAGGAAGAGGACCC
 CAGCAATGGCTTGTCCCCTGGTCAAGGTGCTACAGCAGCTCAGCAGGGTGGATATGAGATCCAGCAAGG
 TTGCGGACGTTGCACAACCTGGTGATCCAGTACGCAGCCCAAGGTCGCTATGAGGTGGCCGTGCCACTCT
 GTAAGCAGGCACTAGAGGACCTGGAGCGCACATCAGGCCGTGGCCACCCTGATGTCGCCACCATGCTCAA
 CATCCTTGCTTTGGTGTATCGTGACCAGAATAAGTATAAGGAAGCTGCCACCTGCTGAATGATGCCCTT
 AGCATCCGGGAGAGCACCTTGGGACCTGACCATCCTGCTGTGGCTGCCACACTCAACAATTTGGCTGTGC
 TCTATGGCAAAAGGGGCAAGTACAAGGAGGCAGAGCCTCTGTGCCAGCGGGCACTGGAGATTCGAGAAAA
 GGCTCTGGGCACGAATCATCCAGATGTGGCAAAACAGCTGAACAACCTGGCCCTCTTGCCAAAACCCAG
 GGCAAGTATGAGGCCGTGGAACGCTACTACCAGCGAGCACTGGCCATCTACGAGGGGCAGCTGGGGCCGG
 ACAACCTAATGTAGCCCGGACCAAGAACAACCTGGCTTCTGTACCTGAAACAGGGCAAAATATGCTGA
 GGCTGAGACACTATACAAAGAGATCCTGACCCGTGCCCATGTACAGGAGTTTGGGTCTGTGGATGATGAC
 CACAAGCCCATCTGGATGCATGCAGAGGAGCGGGAGGAAATGAGCAAAAGCCGGCACCATGAGGGTGGGA
 CACCCTATGCTGAGTATGGAGGCTGGTACAAGGCTGCAAAGTGAGCAGCCCCACAGTGAACACTACTCT
 GAGAAACCTGGGAGCTCTGTATAGGCGCCAGGAAAGCTGGAGGCTGCTGAGACCCTGGAGGAATGTGCC
 CTGCGGTCCCGGAGACAGGGCACTGACCCTATCAGCCAGACGAAGGTGGCAGAGCTGCTTGGGAGAGTG
 ATGGTAGAAGGACCTCCAGGAGGGCCCTGGAGACAGTGTGAAATTCGAGGGAGGTGAAGATGCTTCTGT
 GGCTGTGGAGTGGTCCGGGATGGCAGTGGGACCCTGCAGAGGAGTGGCTCTCTTGCAAGATCCGGGAT
 GTGCTCCGCAGAAGCAGTGAACCTTGGTGAGGAAGCTCCAGGGGACTGAGCCTCGGCCCTCCAGCAGCA
 ACATGAAGCGAGCAGCCTCCTTGAACATCTGAACCAACCTAGTGCAGCACCCTCCAGGTCTCCCGGGG
 CCTCAGTGCCAGCACCATGGACCTCTCTCAAGCAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG217567 representing NM_201522
 Red=Cloning site Green=Tags(s)

MSGLVLGQRDEPAGHRLSQEEILGSTRVLSQGLEALRSEHQAVLQSLQTIECLQQGGHEEGLVHEKARQ
 LRRSMENIELGLSEAQVMLALASHLSTVESEKQKLRAQVRRLCQENQWLRDELQQLRQSEQAVAQL
 EEEKKHLEFLGQLRQYDEDGHTSEEKEGDATKDSLDDLPNEEEEDPSNGLSRQGATAAQGGYEIPAR
 LRTLHNLVIQYAAQGRYEVAVPLCKQALEDLERTSGRGHPDVATMLNILALVYRDQNKYKAAHLLNDAL
 SIRESTLGPDPVAATLNNLAVLYGKRKYKEAEPLCQRALEIREKVLGTNHPDVAKQLNNLALLCQNG
 GKYEAEVYYYQRALAIYEQQLGPDNPNVARTKNNLASCYLKQGYAEATLYKEILTRAHVQEFGSVDDD
 HKPIWMHAEEREEMSKSRHHEGGTPYAEYGGWYKACKVSSPTVNTTLRNLGALYRRQKLEAAETLEECA
 LRSRRQGTDPISQTKVAELLGESDGRRTSQEGPDSVKFEGGEDASVAVEWSGDGSGLTQRSGSLGKIRD
 VLRRSELLVRKLQGTETPRPSSSNMKRAASLNLYNQPSAAPLQVSRGLSASTMDLSSSS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_201522

ORF Size: 1857 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_201522.3](#)

RefSeq Size: 2488 bp

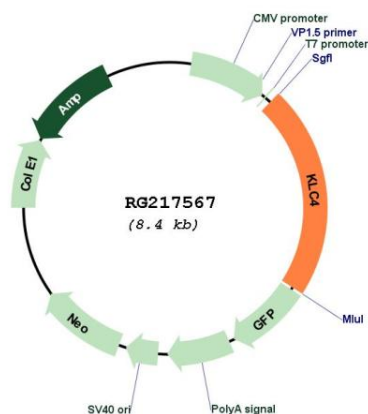
RefSeq ORF: 1860 bp

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 RG217567