

Product datasheet for **RG210268**

KLC4 (NM_201521) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLC4 (NM_201521) 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:

>RG210268 representing NM_201521
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCAGGCCTGGTGTGGGGCAGCGGGATGAGCCTGCAGGCCACCGGCTCAGCCAAGAGGAGATCCTGG
 GGAGCACACGGCTGGTCAGCCAAGGGCTAGAGGCCCTACGCAGTGAACACCAGGCCGTGCTGCAAAGCCT
 GTCCCAGACCATTGAGTGTCTGCAGCAGGGAGGCCATGAGGAAGGGCTGGTGCATGAGAAGGCCCGCAG
 CTTGCGCGTTCTATGGAAAAATTGAGCTCGGGCTGAGTGAGGCCAGGTGATGCTGGCTTAGCCAGCC
 ACCTGAGCACAGTGGAGTCGGAGAAACAGAAGCTGCGGGCTCAGGTGCGGCGGCTATGCCAGGAGAACCA
 GTGGCTGCGGGATGAGCTGGCTGGCACCCAGCAGCGGCTACAGCGCAGTGAACAGGCTGTGGCTCAGCTG
 GAGGAGAAAAGAAGCACCTGGAGTTCCTGGGGCAGCTGCGGCAGTATGATGAGGATGGACATACCTCGG
 AGGAGAAAAGAAGCGATGCCACCAAGGATTCCTGGATGACCTCTTCTAATGAGGAGGAAGAGGCC
 CAGCAATGGCTTGTCCCCTGGTCAAGGTGCTACAGCAGCTCAGCAGGGTGGATATGAGATCCAGCAAGG
 TTGCGGACGTTGCAACCTGGTATCCAGTACGCAGCCCAAGGTCGCTATGAGGTGGCCGTGCCACTCT
 GTAAGCAGGCACTAGAGGACCTGGAGCGCACATCAGGCCGTGGCCACCCTGATGTCGCCACCATGCTCAA
 CATCCTTGCTTTGGTGTATCGTGACCAGAATAAGTATAAGGAAGCTGCCACCTGCTGAATGATGCCCTT
 AGCATCCGGGAGAGCACCTTGGGACCTGACCATCCTGCTGTGGCTGCCACACTCAACAATTTGGCTGTGC
 TCTATGGCAAAGGGGCAAGTACAAGGAGGCAGAGCCTCTGTGCCAGCGGGCACTGGAGATTCGAGAAAA
 GGTCCTGGGCACGAATCATCCAGATGTGGCAAACAGCTGAACAACCTGGCCCTTTGTGCCAAAACCCAG
 GGCAAGTATGAGCGCGTGAACGCTACTACCAGCAGCAGTGGCCATCTACGAGGGCAGCTGGGGCCGG
 ACAACCCTAATGTAGCCCGGACCAAGAACAACCTGGCTTCTGTTACCTGAAACAGGGCAAAATATGCTGA
 GGCTGAGACACTATAACAAGAGATCCTGACCCGTGCCATGTACAGGAGTTTGGGTCTGTGGATGATGAC
 CACAAGCCCATCTGGATGCATGCAGAGGAGCGGGAGGAAATGAGCAAAAGCCGGCACCATGAGGGTGGGA
 CACCCTATGCTGAGTATGGAGGCTGGTACAAGGCTGCAAAGTGAAGCAGCCACAGTGAACACTACTCT
 GAGAAACCTGGGAGCTCTGTATAGGCGCCAGGAAAGCTGGAGGCTGCTGAGACCCTGGAGGAATGTGCC
 CTGCGGTCCCGGAGACAGGGCACTGACCCTATCAGCCAGACGAAGGTGGCAGAGCTGCTTGGGGAGAGTG
 ATGGTAGAAGGACCTCCAGGAGGGCCCTGGAGACAGTGTGAAATTCGAGGGAGGTGAAGATGCTTCTGT
 GGCTGTGGAGTGGTCCGGGGATGGCAGTGGGACCCTGCAGAGGAGTGGCTCTCTTGGCAAGATCCGGGAT
 GTGCTCCGCAGAAGCAGTGAACCTTTGGTGAAGGAGCTCCAGGGGACTGAGCCTCGGCCCTCCAGCAGCA
 ACATGAAGCGAGCAGCCTCCTTGAACATCTGAACCAACCTAGTGACGACCCCTCCAGGTCTCCGGGG
 CCTCAGTGCCAGCACCATGGACCTCTTCAAGCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG210268 representing NM_201521
 Red=Cloning site Green=Tags(s)

MSGVLVGRDEPAGHRLSQEEILGSTRLVSQGLEALRSEHQAVLQSLSQTIECLQQGGHEEGLVHEKARQ
 LRRSMENIELGLSEAQVMLALASHLSTVESEKQKLRAQVRRLCQENQWLRDELQQLRSEQAVAQL
 EEEKHLLEFLGQLRQYDEEDGHTSEEKEGDATKDSLDDLPNEEEDPSNGLSRGQATAAQGGYEIPAR
 LRTLHNLVIQYAAQGRYEVAVPLCKQALDLERTSGRGHPDVATMLNILALVYRDQNKYEAHLLNDAL
 SIRESTLGPDPVAATLNNLAVLYGKRKYKEAEPLCQRALEIREKVLGTNHPDVAKQLNNLALLCQNG
 GKYEAVERYYYQALAIYEGQLGPDNPNVARTKNNLASCYLKQGYAEAEELYKEILTRAHVQEFSGVDDD
 HKPIWMHAEEREEMSKSRHHEGGTPYAEYGGWYKACKVSSPTVNTTLRNLGALYRRQGLKLEAAETLEECA
 LRSRRQGTDPISQTKVAELLGESDGRRTSQEGPQSVKFEEDASVAVVWSDGSGTLQSRGSLGKIRD
 VLRRSELLVRKLQGTPEPRPSSNMKRAASLNLYLNQPSAAPLQVSRGLSASTMDLSSSS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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_201521.3
RefSeq Size:	2378 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]