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Product datasheet for RG214102

KLC4 (NM_138343) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLC4 (NM_138343) 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)

ORF Nucleotide Sequence:

>RG214102 representing NM_138343
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAGGCCTGGTGTTGGGGCAGCGGGATGAGCCTGCAGGCCACCGGCTCAGCCAAGAGGAGATCCTGG
GGAGCACACGGCTGGTCAGCCAAGGGCTAGAGGCCCTACGCAGTGAACACCAGGCCGTGCTGCAAAGCCT
GTCCCAGACCATTGAGTGTCTGCAGCAGGGAGGCCATGAGGAAGGGCTGGTGCATGAGAAGGCCCGGCAG
CTTCGCCGTTCTATGGAAAACATTGAGCTCGGGCTGAGTGAGGCCCAGGTGATGCTGGCTCTAGCCAGCC
ACCTGAGCACAGTGGAGTCGGAGAAACAGAAGCTGCGGGCTCAGGTGCGGCGGCTATGCCAGGAGAACCA
GTGGCTGCGGGATGAGCTGGCTGGCACCCAGCAGCGGCTACAGCGCAGTGAACAGGCTGTGGCTCAGCTG
GAGGAGGAAAAGAAGCACCTGGAGTTCCTGGGGCAGCTGCGGCAGTATGATGAGGATGGACATACCTCGG
AGGAGAAAGAAGGCGATGCCACCAAGGATTCCCTGGATGACCTCTTTCCTAATGAGGAGGAAGAGGACCC
CAGCAATGGCTTGTCCCGTGGTCAAGGTGCTACAGCAGCTCAGCAGGGTGGATATGAGATCCCAGCAAGG
TTGCGGACGTTGCACAACCTGGTGATCCAGTACGCAGCCCAAGGTCGCTATGAGGTGGCCGTGCCACTCT
GTAAGCAGGCACTAGAGGACCTGGAGCGCACATCAGGCCGTGGCCACCCTGATGTCGCCACCATGCTCAA
CATCCTTGCTTTGGTGTATCGTGACCAGAATAAGTATAAGGAAGCTGCCCACCTGCTGAATGATGCCCTT
AGCATCCGGGAGAGCACCTTGGGACCTGACCATCCTGCTGTCAGTATTCCTTGCCCTCCCCACCCCACGC
CCCGCACCCCCCACCATTGCTGTTTTGGCCTCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

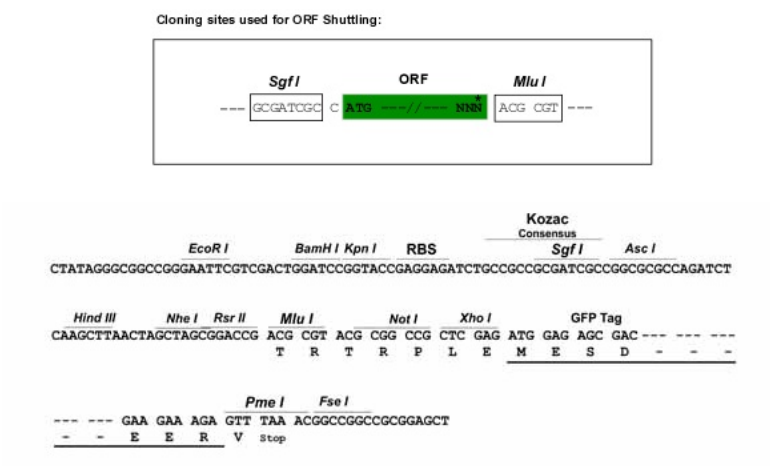
>RG214102 representing NM_138343
Red=Cloning site Green=Tags(s)

MSGLVLGQRDEPAGHRLSQEEILGSTRLVSQGLEALRSEHQAVLQSLSQTIECLQQGGHEEGLVHEKARQ
LRRSMENIELGLSEAQVMLALASHLSTVESEKQKLRAQVRRLCQENQWLRDELAGTQQRLQRSEQAVAQL
EEEKKHLEFLGQLRQYDEDGHTSEEKEGDATKDSLDDLFPNEEEEDPSNGLSRGQGATAAQQGGYEIPAR
LRTLHNLVIQYAAQGRYEVAVPLCKQALEDLERTSGRGHPDVATMLNILALVYRDQNKYKEAAHLLNDAL
SIRESTLGPDHPAVSIPCPPHPTPRTPHHCCFGLS

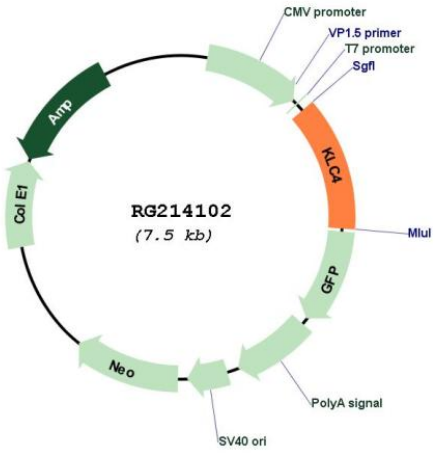
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_138343

ORF Size: 945 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_138343.3
RefSeq Size:	1284 bp
RefSeq ORF:	948 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]