

Product datasheet for **MG205137**

Klc4 (BC005746) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Klc4 (BC005746) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Klc4 |
| Synonyms: | 1200014P03Rik; AA408085; AW146303; Kns18 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG205137 representing BC005746 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGGCTTGGTGTGGGGCAGCGGGATGAGCCTGCAGGGCACCGGCTCAGTCAAGAGGAGATCTTGG
GCAGCACCAAGGTGGTGAGCCAAGGGCTGGAGGCCCTACACAGTGAACATCAGGCAGTGTGCAGAGCCT
GTCCCACACCATGAGTGTCTGCAACAGGGAGGCCATGAGGAAGGACTGGTCCATGAGAAGGCCCGGCGAG
CTGCGGGCTCTATGGAGAACATCGAGCTGGGGCTGAGCGAGGCCAGGTGATGTGGCGCTGGCTAGCC
ACCTGAGCACAGTGGAGTCTGAGAAGCAGAAGCTGCGAGCCCAAGTGGCGGGCTATGCCAGGAGAATCA
GTGGCTCCGGGATGAGCTGGCGGGCACTCAGCAGCGCCTGCAGCGCAGCGAGCAGGCTGTGGCTCAGCTA
GAGGAAGAGAAGAAGCACCTGGAGTTCTGCGGCAGCTGCGGCAGTATGATGAGGACGGCCACGGCATGG
AGGAGAAGGAGGGAGAGGCCACCAAGATTCTCTGGATGACCTGTTCCCAATGAGGAGGAGGAGGACTC
CGGCAACGACTTGTCCCCTGGTCAGGGTGTGCAGCGGCCAGCAGGGTGGATATGAGATCCCAGCAAGG
TTGCGGACCCTGCACAACCTGGTCATCCAGTATGCAGCTCAGGGTCGCTATGAGGTGGCGGTGCCACTCT
GCAAGCAAGCGCTAGAGGACCTGGAGCGCACATCTGGCCGAGGTACCCTGATGTGGCTACCATGCTCAA
CATCCTGGCTCTGGTGTACCGGGACCAGAATAAGTACAAGGAGGCTGCTCATCTGCTGAACGATGCTCTC
AGCATCCGGGAGAGCACCTGGCCGGGACCACCCAGCCGTGGCTGCCACACTCAACAATCTGGCTCTTC
TGTCAGTTTGGGCTGGCCAACCTGGGCTGCCTTGCCCTGGTCTCTTTACCTCTGCTGCCTCACTACAG
GTCCACATATTTCACTGTTTCTTAATAAATGAACCAGGTAACATTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205137 representing BC005746
Red=Cloning site Green=Tags(s)

MSGLVLGQRDEPAGHRLSQEEILGSTKVVVSQGLEALHSEHQAVLQSLSHTIECLQQGGHEEGLVHEKARQ
 LRRSMENIELGLSEAQVMLALASHLSTVESEKQLRAQVRRRLCQENQWLRDELAGTQRLQRSEQAVAQL
 EEEKKHLEFLRQLRQYDEDDGHGMEEKEGEATKDSLDDLFPNEEEEDSGNDLSRGQAAAAAQGGYEIPAR
 LRTLHNLVIQYAAQGRYEVAVPLCKQALEDLERTSGRHPDVATMLNILALVYRDQNKYKAAHLLNDAL
 SIRESTLGRDHPAVAATLNNLALLSVWGWPTGLPCPLFYPLLPHYRSTYFTVSLINEPGNI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC005746

ORF Size: 1028 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: [BC005746](#), [AAH05746](#)

RefSeq Size: 1138 bp

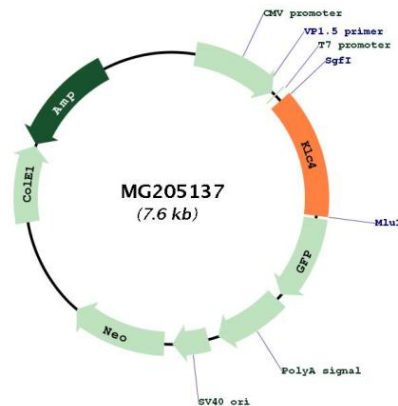
RefSeq ORF: 1028 bp

Locus ID: 74764

Cytogenetics: 17 C

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 MG205137