

Product datasheet for **SC325239**

KLC2 (NM_001134775) Human Untagged Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | KLC2 (NM_001134775) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | KLC2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >SC325239 representing NM_001134775.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCCATGATGGTGTTCCCGCGGGAGGAGAAGCTGAGCCAGGATGAGATCGTGCTGGGCACCAAGGCT
GTCATCCAGGGACTGGAGACTCTGCGTGGGGAGCATCGTCCCTGCTGGCTCCTCTGGTTGCACCTGAG
GCCGGCGAAGCCGAGCCTGGCTCGCAGGAGCGCTGCATCCTCCTGCGTCGCTCCCTGGAAGCCATTGAG
CTTGGGCTGGGGAGGCCAGGTGATCTTGGCATTGTGCGAGCCACCTGGGGGCTGTAGAATCAGAGAAG
CAGAAGCTGCGGGCGCAGGTGCGGCGTCTGGTGCAGGAGAACCAGTGGCTGCGTGAGGAGCTGGCGGGG
ACACAGCAGAAGCTGCAGCGCAGTGAAGACGCCTCCCTAACGAGGAGAAGGGGACGTCCCAAAA
GACACACTGGATGACCTGTTCCCAATGAGGATGAGCAGAGCCCAGCCCTAGCCAGGAGGAGGGGAT
GTGTCTGGTCAGCATGGGGCTACGAGATCCCGGCCCGGCTCCGCACCCTGCACAACCTGGTGATCAA
TACGCCTCACAGGGCCGCTACGAGTAGCTGTGCCACTCTGCAAGCAGGCACTCGAAGACCTGGAGAAG
AGTCAAGCCACGACCACCTGACGTTGCCACCATGCTGAACATCCTGGCACTGGTCTATCGGGATCAG
AACAAGTACAAGGAGGCTGCCACCTGCTCAATGATGCTCTGGCCATCCGGGAGAAAACACTGGGCAAG
GACCACCCAGCCGTGGCTGCGACACTAAACAACCTGGCAGTCTGTATGGCAAGAGGGGCAAGTACAAG
GAGGCTGAGCCATTGTGCAAGCGGGCACTGGAGATCCGGGAGAAGGTCCTGGGCAAGTTTACCCAGAT
GTGGCCAAGCAGCTCAGCAACCTGGCCCTGCTGTGCCAGAACCAGGGCAAAGCTGAGGAGGTGGAATAT
TACTATCGGGGGCACTGGAGATCTATGCTACACGCCTCGGGCCCGATGACCCCAATGTGGCCAAGACC
AGAACAACCTGGCTTCTGCTACCTGAAGCAGGGCAAGTACCAGGATGCGGAGACCTTGTACAAGGAG
ATCCTCACCCCGCTCATGAGAAAAGAGTTGGCTCTGTCAATGGGGACAACAAGCCATCTGGATGCAC
GCAGAGGAGCGGGAGGAAAGCAAGGATAAGCGCCGGGACAGCGCCCTATGGGGAATACGGCAGCTGG
TACAAGGCTGTAAAGTAGACAGCCCCACAGTCAACACCACCTGCGCAGCTTGGGGCCCTATACCGG
CGCCAGGGCAAGCTGGAAGCCGCGCACACTAGAGGACTGTGCCAGCCGTAACCGAAGCAGGGTTTG
GACCCCGCAAGCCAGACCAAGGTGGTAGAACTGCTGAAAGATGGCAGTGGCAGGCGGGGAGACCGCCG
AGCAGCCGAGACATGGCTGGGGGTGCCGGGCTCGGTCTGAGTCTGACCTCGAGGACGTGGGACCTACA
GCTGAGTGAATGGGATGGCAGTGGCTCCTTGAAGCGCAGCGGTTTCTTTGGGAACTCCGGGATGCC
CTGAGGCGCAGCAGTGAATGCTGGTAAAGAAGCTGCAGGGGGGACCCCCAGGAGCCCTAACCC
AGGATGAAGCGGGCCAGTCCCTCAACTCCTCAACAAGAGCGTGAAGAGCCGACCCAGCTGGAGGC
ACAGGTCTCTGACAGCCGCACTCTCAGCTCCAGCTCCATGGACCTCTCCCGACGAAGCTCCCTGGT
GGCTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001134775
- Insert Size:** 1869 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_001134775.1](#)

RefSeq Size: 3093 bp

RefSeq ORF: 1869 bp

Locus ID: 64837

UniProt ID: [Q9H0B6](#)

Cytogenetics: 11q13.2

Protein Families: Druggable Genome

MW: 68.9 kDa

Gene Summary: The protein encoded by this gene is a light chain of kinesin, a molecular motor responsible for moving vesicles and organelles along microtubules. Defects in this gene are a cause of spastic paraplegia, optic atrophy, and neuropathy (SPOAN) syndrome. [provided by RefSeq, Mar 2016]

Transcript Variant: This variant (3) represents an alternate 5' UTR and encodes the longer protein isoform (1). The same protein is encoded by transcript variants 1, 3, 4, and 5.