

Product datasheet for **SC326058**

KLC2 (NM_001134774) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLC2 (NM_001134774) 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: >SC326058 representing NM_001134774.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCCATGATGGTGTTCGCCGGGAGGAGAAGCTGAGCCAGGATGAGATCGTGCTGGGCACCAAGGCT
GTCATCCAGGGACTGGAGACTCTGCGTGGGGAGCATCGTCCCTGCTGGCTCCTCTGGTTGCACCTGAG
GCCGGCAAGCCGAGCCTGGCTCGCAGGAGCGCTGCATCCTCCTGCGTCCCTGGAAGCCATTGAG
CTTGGGCTGGGGAGGCCAGGAGGAGAAGGGGACGTCCCCAAAGACACACTGGATGACCTGTTCCCC
AATGAGGATGAGCAGAGCCAGCCCTAGCCCAGGAGGAGGGATGTGTCTGGTCAGCATGGGGGTAC
GAGATCCCGGCCGGCTCCGCACCCTGCACAACCTGGTATCCAATACGCCTCACAGGGCCGCTACGAG
GTAGCTGTGCCACTCTGCAAGCAGGCACTCGAAGACCTGGAGAAGACGTGAGCCACGACCACCCTGAC
GTTGCCACCATGTGAACATCCTGGCACTGGTCTATCGGGATCAGAACAAGTACAAGGAGGCTGCCAC
CTGCTCAATGATGCTCTGGCCATCCGGGAGAAAACACTGGCAAGGACCACCCAGCCGTGGCTGCGACA
CTAAACAACCTGGCAGTCTGTATGGCAAGAGGGCAAGTACAAGGAGGCTGAGCCATTGTCAAGCGG
GCACTGGAGATCCGGGAGAAGGTCTGGCAAGTTTACCAGATGTGGCAAGCAGCTCAGCAACCTG
GCCTGTGTGCCAGAACCAGGGCAAAGCTGAGGAGGTGGAATATTACTATCGGGCGGCACTGGAGATC
TATGCTACACGCCTCGGGCCGATGACCCCAATGTGGCAAGACCAAGAACAACCTGGCTTCTGTAC
CTGAAGCAGGGCAAGTACCAGGATGCGGAGACCTTGTAACAAGGAGATCCTCACCCGCGCTCATGAGAAA
GAGTTTGGCTCTGTCAATGGGGACAACAAGCCATCTGGATGCACGCAGAGGAGCGGGAGGAAAGCAAG
GATAAGCGCCGGGACAGCGCCCCCTATGGGGAATACGGCAGCTGGTACAAGGCTGTAAAGTAGACAGC
CCCACAGTCAACACCACCCTGCGCAGCTTGGGGCCCTATACCGCGCCAGGGCAAGCTGGAAGCCGCG
CACACACTAGAGGACTGTGCCAGCCGTAACCGCAAGCAGGGTTTGGACCCGCAAGCCAGACCAAGGTG
GTAGAAGTCTGAAAGATGGCAGTGGCAGGCGGGGAGACCGCCGACAGCCGAGACATGGCTGGGGGT
GCCGGGCTCGGTCTGAGTCTGACCTCGAGGACGTGGGACCTACAGCTGAGTGAATGGGATGGCAGT
GGCTCCTTGAGGCGCAGCGGTTCTTTGGGAACTCCGGGATGCCCTGAGGCGCAGCAGTGAAGTCTG
GTAAAGAAGTGCAGGGGGCACCCCCAGGAGCCCCCTAACCCAGGATGAAGCGGGCCAGTTCCTC
AACTTCTCAACAAGAGCGTGAAGAGCCGACCCAGCCTGGAGGCACAGGTCTCTGACAGCCGCAT
CTCAGTCCAGCTCCATGGACCTCTCCGACGAAGCTCCCTGGTGGGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001134774
- Insert Size:** 1638 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_001134774.1](#)

RefSeq Size: 2733 bp

RefSeq ORF: 1638 bp

Locus ID: 64837

UniProt ID: [Q9H0B6](#)

Cytogenetics: 11q13.2

Protein Families: Druggable Genome

MW: 60 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 (2) omits an in-frame coding exon resulting in a shorter protein isoform (2) compared to variant 1. It also reflects use of an alternate splice acceptor site in exon 2.