

Product datasheet for **SC317173**

KIF13A (NM_001105567) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: KIF13A (NM_001105567) Human Untagged Clone
Tag: Tag Free
Symbol: KIF13A
Synonyms: bA500C11.2; RBKIN
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_001105567, the custom clone sequence may differ by one or more nucleotides

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ATGTCGGATACCAAGGTTAAAAGTTGCCGTCGGGTCGGGCCATGAACCGACGAGAAGT
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 AATGACCAGGTAATAATTCCAGAGGCAGCCTTTTGGGTTCTGTGCTGTCAA

Restriction Sites:	Please inquire
ACCN:	NM_001105567
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:	<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:	<u>NM_001105567.1, NP_001099037.1</u>
RefSeq Size:	5806 bp
RefSeq ORF:	5274 bp
Locus ID:	63971
UniProt ID:	<u>Q9H1H9</u>
Cytogenetics:	6p22.3
Protein Families:	Druggable Genome

Gene Summary:

This gene encodes a member of the kinesin family of microtubule-based motor proteins that function in the positioning of endosomes. This family member can direct mannose-6-phosphate receptor-containing vesicles from the trans-Golgi network to the plasma membrane, and it is necessary for the steady-state distribution of late endosomes/lysosomes. It is also required for the translocation of FYVE-CENT and TTC19 from the centrosome to the midbody during cytokinesis, and it plays a role in melanosome maturation. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Aug 2011]

Transcript Variant: This variant (3) lacks an alternate in-frame exon in both the central and 3' coding regions, compared to variant 1, resulting in an isoform (c, also known as KINESIN-13A1) that is shorter than isoform a.