

## Product datasheet for **SC333155**

### KIF27 (NM\_001271928) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KIF27 (NM\_001271928) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** KIF27  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC333155 representing NM\_001271928.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTGCTGATTCCATCGAAGTATCTAGGAAACCAAGGGACTTAAAAACTTAG
    
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001271928
- Insert Size:** 3915 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).
- 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\\_001271928.1](#)
- RefSeq Size:** 4400 bp

RefSeq ORF: 3915 bp

Locus ID: 55582

UniProt ID: [Q86VH2](#)

Cytogenetics: 9q21.32

Protein Families: Druggable Genome

MW: 149 kDa

**Gene Summary:** This gene is a member of the KIF27 (kinesin 4) sub-family of the mammalian kinesin family. The gene is an ortholog of the Drosophila Cos2 gene, which plays an important role in the Hedgehog signaling pathway. The encoded protein contains an N-terminal motor domain which includes nucleotide-binding and microtubule-interacting regions, a stalk domain containing a predicted coiled coil motif and a C-terminal tail domain. Alternatively spliced transcript variants have been observed for this gene. Pseudogenes associated with this gene are located on chromosome 9. [provided by RefSeq, Dec 2012]  
Transcript Variant: This variant (3) lacks two in-frame exons in the central coding region, compared to variant 1. The encoded isoform (C) is shorter than isoform A.