

## Product datasheet for **SC325387**

### ULK2 (NM\_001142610) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ULK2 (NM_001142610) Human Untagged Clone
Tag:	Tag Free
Symbol:	ULK2
Synonyms:	ATG1B; Unc51.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325387 representing NM_001142610. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGAGGTGGTGGGTGACTTCGAGTACAGCAAGAGGGATCTCGTGGGACACGGGGCCTTCGCGGTGGTC
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TCAGGTTCTCCAGTGCCACAAGCTCAGTCCCCACAGTCTCTTTATCGGGTGCTAGACTGCAGAGCGCC  
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 GTGTGA  
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 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001142610
- Insert Size:** 3111 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:	<a href="#">NM_001142610.1</a>
RefSeq Size:	3924 bp
RefSeq ORF:	3111 bp
Locus ID:	9706
UniProt ID:	<a href="#">Q8IYT8</a>
Cytogenetics:	17p11.2
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	mTOR signaling pathway, Regulation of autophagy
MW:	112.7 kDa
Gene Summary:	<p>This gene encodes a protein that is similar to a serine/threonine kinase in <i>C. elegans</i> which is involved in axonal elongation. The structure of this protein is similar to the <i>C. elegans</i> protein in that both proteins have an N-terminal kinase domain, a central proline/serine rich (PS) domain, and a C-terminal (C) domain. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq, Dec 2008]</p> <p>Transcript Variant: This variant (2) differs in the 3' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.</p>