

Product datasheet for **SC216600**

ULK1 (NM_003565) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	ULK1 (NM_003565) Human 3' UTR Clone
Symbol:	ULK1
Synonyms:	ATG1; ATG1A; hATG1; UNC51; Unc51.1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_003565
Insert Size:	1819 bp



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Insert Sequence: >SC216600 3'UTR clone of NM_003565
 The sequence shown below is from the reference sequence of NM_003565. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
TCGGCGCTGCTGACTGGCATCTGTGCCACCTTTCTGGCCTGGCTGGGCCCCCGTCTGCCGAGCCC
TGCAGAGTGGGCTCTGTGTGCTGGCTGGACTCCTCGGGACAAGCCCATGGCGCTGATCGCTGGTGTGA
GCCCTGCCCTGGGCCCCACGGACAGTCAGCCTGCCGGCCTCCCTGCAGCTCACGGGGCAGAACAGCAC
ATCTGGAGCCACACAGCTTGGGGGTGTCTCCCATCTTTTACAGGTGGGGATCACAGAATTTCTGCCCC
TCCAGTGCCTGGCTCAGCAGGCGTGGGTGCCACCACCCTCTAGCCCCAGGGCAGCCCCGGAGGACAGG
CAAGGGCCTGAGACCACTGCCGACTCAAAGCCAAAGCGAGCTCCTGCTTAGGGAAGGTCAGCAGGCACT
GTGCCCAGGAAGAGCCTGCGGCCTCGGCGTCCCCAGTCTCCAGGAGCCTCTCCCTCCGAGATCCAC
CCAGCTTTGTCAATCACCAAGCACTTTATGCATATAGAGACAGAACCTGGACCTCACCAGGACTGCT
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CCCTACCTGGGCTGGAAGCAGATGAGGGGAATCTTCATGCAAAGAAAAAGTAACATGTGCAAAGC
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GTGTCCAAGCAGTCTGGGCGCCTCAACTGCTGCCCTGGTGAATGTTCTCTTGATAGTGTGGACC
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AAGGAAATAAACCTTTGGAATTGTT
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_003565.4](#)

Summary:

Serine/threonine-protein kinase involved in autophagy in response to starvation. Acts upstream of phosphatidylinositol 3-kinase PIK3C3 to regulate the formation of autophagophores, the precursors of autophagosomes. Part of regulatory feedback loops in autophagy: acts both as a downstream effector and negative regulator of mammalian target of rapamycin complex 1 (mTORC1) via interaction with RPTOR. Activated via phosphorylation by AMPK and also acts as a regulator of AMPK by mediating phosphorylation of AMPK subunits PRKAA1, PRKAB2 and PRKAG1, leading to negatively regulate AMPK activity. May phosphorylate ATG13/KIAA0652 and RPTOR; however such data need additional evidences. Plays a role early in neuronal differentiation and is required for granule cell axon formation. May also phosphorylate SESN2 and SQSTM1 to regulate autophagy (PubMed:25040165). [UniProtKB/Swiss-Prot Function]

Locus ID:

8408

MW:

66.3