

Product datasheet for SC336315

ULK3 (NM_001284364) Human Untagged Clone

Product data:

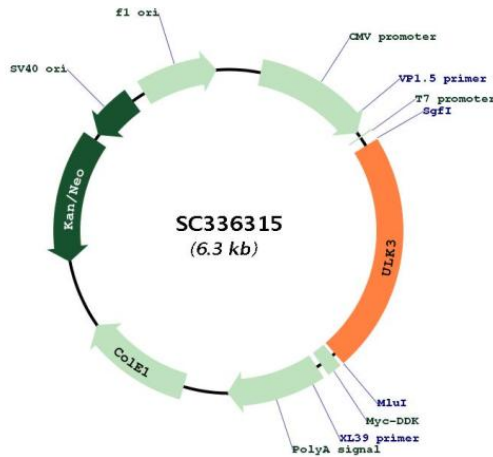
Product Type:	Expression Plasmids
Product Name:	ULK3 (NM_001284364) Human Untagged Clone
Tag:	Tag Free
Symbol:	ULK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC336315 representing NM_001284364. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGGGCCCGGCTGGGGTCCCCCGCGCCTGGACGGCTTCATCCTCACCGAGCGCCTGGGCAGCGGC
ACGTACGCCACGGTGTACAAGGCCTACGCCAAGAAGGACACTCGTGAAGTGGTAGCCATAAAGTGTGTA
GCCAAGAAAAGTCTGAACAAGGCATCGGTGGAGAACCTCCTCACGGAGATTGAGATCCTCAAGGGCATT
CGACATCCCCACATTGTGCAGCTGAAAGACTTTCAGTGGGACAGTGACAATATCTACCTCATCATGGAG
TTTTGCGCAGGGGGCGACCTGTCTCGCTCATCCATACCCGCAGGATTCTGCCTGAGAAGGTGGCGCTG
GTCTTCATGCAGCAATTAGTAGCGCCCTGCAATTCCTGCATGAACGGAATATCTCACCTGGATCTG
AAGCCACAGAACATTCTACTGAGCTCCTTGGAGAAGCCCCACCTAAAACCTGGCAGACTTTGGTTTCGCA
CAACACATGTCCCCGTGGGATGAGAAGCACGTGCTCCGTGGCTCCCCCTCTACATGGCCCCGAGATG
GTGTGCCAGCGGCAGTATGACGCCCGCTGGACCTCTGGTCCATGGGGTTCATCCTGTATGAAGCCCTC
TTCGGGCAGCCCCCTTGCCTCCAGGTCGTTCTCGGAGCTGGAAGAGAAGATCCGTAGCAACCGGGTC
ATCGAGTCCCCTTGGGCCCTGCTCTCCGAGACTGCCGGACCTACTGCAGCGGCTCCTGGAGCGG
GACCCAGCCGTCGCATCTCCTCCAGGACTTTTTGCGCACCCCTGGGTGGACCTGGAGCATGCC
AGTGGGAGAGTCTGGGCGAGCAACCGCCCTGGTGGTGCAGGCTGTGAAGAAAGACCAGGAGGGGAT
TCAGCAGCTGCCTTACTCTACTGCAAGGCTCTGGACTTCTTTGTACCTGCCCTGCATATGAAGTG
GATGCCACGCGGAAGGAGCAATTAAGGCAAGGTGGGGCAGTACGTGTCCCGGGCTGAGGAGCTCAAG
GCCATCGTCTCCTTCCAATCAGGCCCTGCTGAGGCAGGGGACCTCTGCCCGAGACCTGCTCAGAGAG
ATGGCCCGGGACAAGCCACGCCTCCTAGCTGCCCTGGAAGTGGCTTCAGCTGCCATGGCCAAGGAGGAG
GCCCGCGGGGAGCAGGATGCCCTGGACCTGTACCAGCACAGCCTGGGGGAGCTACTGCTGTTGCTG
GCAGCGGAGCCCCGGGCGGAGCGGGAGCTGCTTCACTGAGGTTCAGAACCTCATGGCCCCGAGCT
GAATACTTGAAGGAGCAGATGAGGGAATCTCGCTGGGAAGCTGACACCCTGGACAAGAGGGGACTGTCG
GAATCTGTTTCGTAGCTCTTGACCCCTTCAGTGA
ACGGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```



Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001284364

Insert Size: 1413 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_001284364.2](#)

RefSeq Size: 2638 bp

RefSeq ORF: 1413 bp

Locus ID: 25989

UniProt ID: [Q6PHR2](#)

Cytogenetics: 15q24.1

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: mTOR signaling pathway, Regulation of autophagy

MW: 53.2 kDa

Gene Summary: Serine/threonine protein kinase that acts as a regulator of Sonic hedgehog (SHH) signaling and autophagy. Acts as a negative regulator of SHH signaling in the absence of SHH ligand: interacts with SUFU, thereby inactivating the protein kinase activity and preventing phosphorylation of GLI proteins (GLI1, GLI2 and/or GLI3). Positively regulates SHH signaling in the presence of SHH: dissociates from SUFU, autophosphorylates and mediates phosphorylation of GLI2, activating it and promoting its nuclear translocation. Phosphorylates in vitro GLI2, as well as GLI1 and GLI3, although less efficiently. Also acts as a regulator of autophagy: following cellular senescence, able to induce autophagy.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. The encoded isoform (b) is shorter than isoform a.