

Product datasheet for **RC238421**

ULK3 (NM_001284364) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ULK3 (NM_001284364) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ULK3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC238421 representing NM_001284364
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGGGCCCGCTGGGGTCCCCCGCCTGGACGGCTTCATCCTCACCGAGCGCTGGCGACGGCA
 CGTACGCCACGGTGTACAAGGCCTACGCCAAGAAGGACACTCGTGAAGTGGTAGCCATAAAGTGTGTAGC
 CAAGAAAAGTCTGAACAAGGCATCGGTGGAGAACCCTCTCACGGAGATTGAGATCCTCAAGGGCATTCTGA
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 GCGCAGGGGGCGACCTGTCTCGCTTCATCCATACCCGCAGGATTCTGCCTGAGAAGGTGGCGCTGTCTT
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 CAGAACATTCTACTGAGCTCCTTGAGAAGCCCCACCTAAAAGTGGCAGACTTTGGTTTCGCACAACACA
 TGTCCCGTGGGATGAGAAGCACGTGCTCCGTGGCTCCCCCTACATGGCCCCGAGATGGTGTGCCA
 GCGGCAGTATGACGCCCGGTGGACCTCTGGTCCATGGGGTTCATCCTGTATGAAGCCCTCTCGGGCAG
 CCCCCCTTGCCTCCAGTCTGTTCTCGGAGCTGGAAGAGAAGATCCGTAGCAACCGGGTTCATCGAGCTCC
 CCTTGGCGCCCTGCTCTCCCGAGACTGCCGGGACCTACTGCAGCGGCTCCTGGAGCGGGACCCAGCCG
 TCGCATCTCCTCCAGGACTTTTTTGGCACCCCTGGGTGGACCTGGAGCACATGCCAGTGGGGAGAGT
 CTGGGGCAGCAACCGCCTGGTGGTGCAGGCTGTGAAGAAAGACCAGGAGGGGGATTACAGCAGTGCCT
 TATCACTCTACTGCAAGGCTCTGGACTTCTTTGTACCTGCCCTGCACTATGAAGTGGATGCCAGCGGAA
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 TCCAATCAGGCCCTGCTGAGGCAGGGGACCTCTGCCGAGACCTGCTCAGAGAGATGGCCCGGGACAAGC
 CACGCCCTCTAGCTGCCCTGGAAGTGGCTTCAGCTGCCATGGCCAAGGAGGAGCCCGCGGGGAGCA
 GGATGCCCTGGACCTGTACCAGCACAGCCTGGGGGAGTACTGCTGTTGCTGGCAGCGGAGCCCCGGGC
 CGGAGGCGGGAGCTGTTCACTAGGTTTCAACCTCATGGCCCGAGCTGAATACTTGAAGGAGCAGA
 TGAGGGAATCTCGCTGGGAAGCTGACACCCTGGACAAAGAGGGACTGTCCGAATCTGTTCTAGCTCTTG
 CACCCCTCAG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238421 representing NM_001284364
 Red=Cloning site Green=Tags(s)

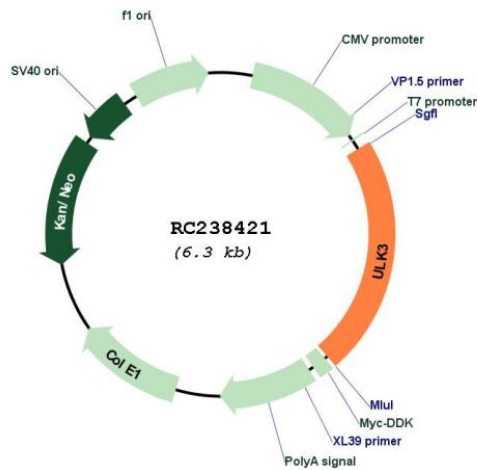
MAGPGWGPRLDGFILTERLGSPTYATVYKAYAKKDTREVVAIKCVAKKSLNKASVENLLTEIEILKGR
 HPHIVQLKDFQWSDNIYLIMEFCAGDLSRFIHTRRILPEKVARVFMQQLASALQFLHERNISHLDLKP
 QNILLSSLEKPHLKLADFGFAQHMSPWDEKHLRGSPLYMAPEMVCQRQYDARVDLWSMGVILYEALFGQ
 PPFASRSFSELEEKIRSNRVIELPLRPLLSRDCRDLQRLLEDPSSRRISFQDFFAHPWVDLEHMPSGES
 LGRATALVVQAVKQDQEGDSAAALSLYCKALDFVFPALHYEVDAQRKEAIKAKVGQYVSRAEELKAIYSS
 SNQALLRQGTSARDLLREMARKPRLAALVASAAMAKEEAAGGEQDALDLYQHSLGELLLLLAAEPPG
 RRRELLHTEVQNLMAAEYLKEQMRESRWEADTLKDEGLSESVRSCTLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001284364

ORF Size: 1410 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	NM_001284364.3
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:	53.7 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]