

Product datasheet for **RC220209**

ULK3 (NM_001099436) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ULK3 (NM_001099436) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ULK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC220209 representing NM_001099436
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGGCCCGCTGGGGTCCCCCGCCTGGACGGCTTCATCCTCACCGAGCGCTGGCGACGGCA
 CGTACGCCACGGTGTACAAGGCCTACGCCAAGAAGGACACTCGTGAAGTGGTAGCCATAAAGTGTGTAGC
 CAAGAAAAGTCTGAACAAGGCATCGGTGGAGAACCTCCTCACGGAGATTGAGATCCTCAAGGCATTTCGA
 CATCCCCACATTGTGCAGCTGAAAGACTTTCAGTGGGACAGTGACAATATCTACCTCATCATGGAGTTTT
 GCGCAGGGGGCGACCTGTCTCGCTTCATCCATACCCGCAGGATTCTGCCTGAGAAGGTGGCGCTGTCTT
 CATGCAGCAATTAGCTAGCGCCCTGCAATTCCTGCATGAACGGAATATCTCTCACCTGGATCTGAAGCCA
 CAGAACATTCTACTGAGCTCCTTGAGAAGCCCCACCTAAAAGTGGCAGACTTTGGTTTCGCACAACACA
 TGTCCCGTGGGATGAGAAGCACGTGCTCCGTGGCTCCCCCTCTACATGGCCCCGAGATGGTGTGCCA
 GCGGCAGTATGACGCCCGGTGGACCTCTGGTCCATGGGGGTATCCTGTATGAAGCCCTCTTCGGGCGAG
 CCCCCCTTGCCTCCAGTCTGTTCTCGGAGCTGGAAGAGAAGATCCGTAGCAACCGGGTATCGAGCTCC
 CCTTGGCGCCCTGCTCTCCCGAGACTGCCGGGACCTACTGCAGCGGCTCCTGGAGCGGGACCCAGCCG
 TCGCATCTCCTCCAGGACTTTTTTGGCACCCCTGGGTGGACCTGGAGCACATGCCAGTGGGGAGAGT
 CTGGGGCGAGCAACCGCCTGGTGGTGCAGGCTGTGAAGAAAGACCAGGAGGGGGATTACAGCAGTGCCT
 TATCACTCTACTGCAAGGCTCTGGACTTCTTTGTACCTGCCCTGCACTATGAAGTGGATGCCAGCGGAA
 GGAGGCAATTAAGGCAAAGGTGGGGCAGTACGTGTCCCGGGCTGAGGAGCTCAAGGCCATCGTCTCCTCT
 TCCAATCAGGCCCTGCTGAGGCAGGGGACCTCTGCCGAGACCTGCTCAGAGAGATGGCCCGGGACAAGC
 CACGCCTCCTAGCTGCCCTGGAAGTGGCTTCAGCTGCCATGGCCAAGGAGGAGGCCCGCGGGGAGCA
 GGATGCCCTGGACCTGTACCAGCACAGCCTGGGGGAGTACTGCTGTTGCTGGCAGCGGAGCCCCGGGC
 CGGAGGCGGGAGCTGCTTCACTAGGTTTCAACCTCATGGCCCGAGCTGAATACTTGAAGGAGCAGG
 TCAAGATGAGGGAATCTCGCTGGGAAGCTGACACCCTGGACAAAGAGGGACTGTCGGAATCTGTTCTGAG
 CTCTTGACCCCTTACG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220209 representing NM_001099436
 Red=Cloning site Green=Tags(s)

MAGPGWGPRLDGFILTERLGSPTYATVYKAYAKKDTREVVAIKCVAKKSLNKASVENLLTEIEILKGR
 HPHIVQLKDFQWSDNIYLIMEFCAGGDLSRFIHTRRILPEKVARVFMQQLASALQFLHERNISHLDLKP
 QNILLSSLEKPHLKLADFGFAQHMSPWDEKHLVRSPLYMAPEMVCQRQYDARVDLWSMGVILYEALFGQ
 PPFASRSFSELEEKIRSNRVIELPLRPLL SRDCRDLLQRLLERDPSRRISFQDFFAHPWVDLEHMPSGES
 LGRATALVVQAVKQDQEGDSAAALSLYCKALDFVFPALHYEVDAQRKEAIKAKVGQYVSRAEELKAIYSS
 SNQALLRQGTSARDLLREMARKPRLAALVASAAMAKEEAAGGEQDALDLYQHSLGELLLLLLAAEPPG
 RRRELLHTEVQNLMARAEYLKEQVKMRESRWEADTLDEGLSESVRSSTLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg3676_f01.zip

Restriction Sites:

SgfI-MluI

Cytogenetics: 15q24.1

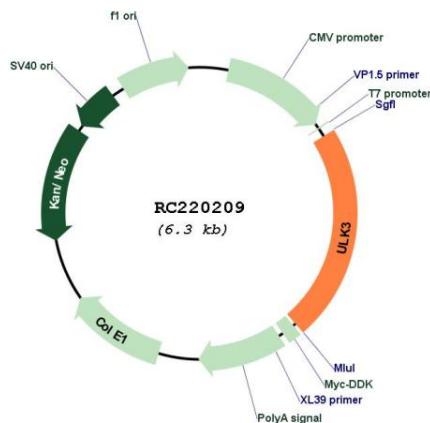
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: mTOR signaling pathway, Regulation of autophagy

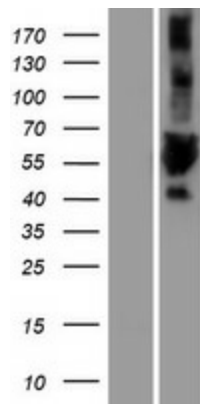
MW: 53.3 kDa

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]

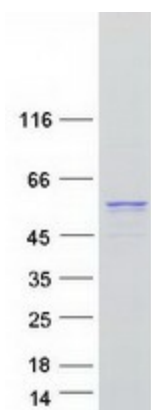
Product images:



Circular map for RC220209



Western blot validation of overexpression lysate (Cat# [LY420458]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220209 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ULK3 protein (Cat# [TP320209]). The protein was produced from HEK293T cells transfected with ULK3 cDNA clone (Cat# RC220209) using MegaTran 2.0 (Cat# [TT210002]).