

Product datasheet for **RG237685**

ULK3 (NM_001284365) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ULK3 (NM_001284365) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ULK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237685 representing NM_001284365. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGCAATTAGCTAGCGCCCTGCAATTCCTGCATGAACGGAATATCTCTCACCTGGATCTGAAGCCA
CAGAACATTCTACTGAGCTCCTTGGAGAAGCCCCACCTAAAACCTGGCAGACTTTGGTTTCGCACAACAC
ATGTCCCGTGGGATGAGAAGCACGTGCTCCGTGGCTCCCCCTTACATGGCCCCGAGATGGTGTGC
CAGCGGCAGTATGACGCCCGGTGGACCTCTGGTCCATGGGGTCCATCCTGTATGAAGCCCTCTTCGGG
CAGCCCCCTTTGCCTCCAGGTCGTTCTCGGAGCTGGAAGAGAAGATCCGTAGCAACCGGTCATCGAG
CTCCCCTTGCGGCCCTGCTCTCCGAGACTGCCGGACCTACTGCAGCGGCTCCTGGAGCGGACCCC
AGCCGTCGCATCTCCTTCCAGGACTTTTTTGGCACCCCTGGGTGGACCTGGAGCACATGCCAGTGGG
GAGAGTCTGGGGCGAGCAACCGCCTGGTGGTGCAGGCTGTGAAGAAAGACCAGGAGGGGATTAGCA
GCTGCCTTACTACTGCAAGGCTCTGGACTTCTTTGTACCTGCCCTGCACTATGAAGTGGATGCC
CAGCGGAAGGAGGCAATTAAGGCAAAGGTGGGCGAGTACGTGTCCCGGGCTGAGGAGCTCAAGGCCATC
GTCTCCTTCCAATCAGGCCCTGCTGAGGCAGGGACCTCTGCCGAGACCTGCTCAGAGAGATGGCC
CGGACAAGCCACGCCTCTAGCTGCCCTGGAAGTGGCTTCAGCTGCCATGGCCAAGGAGGAGGCCGCC
GGCGGGGAGCAGGATGCCCTGGACCTGTACCAGCACAGCCTGGGGAGCTACTGCTGTTGCTGGCAGCG
GAGCCCCCGGGCCGAGGCGGGAGCTGTTTCACTGAGGTTTCAAGCCTCATGGCCGAGCTGAATAC
TTGAAGGAGCAGGTCAAGATGAGGGAATCTCGCTGGGAAGCTGACACCCTGGACAAGAGGGACTGTCG
GAATCTGTTTCGTAGCTCTTGACCCCTTACG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237685
 Blue=ORF Red=Cloning site Green=Tag(s)

MQQLASALQFLHERNISHLDLKPQNILLSSLEKPHLKLADFGFAQHMSPWDEKHVLRGSPLYMAPEMVC
QRQYDARVDLWSMGVILYEALFGQPPFASRSFSELEEKIRSNRVIELPLRPLL SRDCRDLLQRLLERDP
SRRISFQDFFAHPWVDLEHMPSGESLGRATALVQAVKKDQEGDSAAALSLYCKALDFFVPALHYEVEDA
QRKEAIKAKVGGQYVSRAEELKAIYSSSNQALLRQGT SARDLLREMARKPRLLAALLEVASAAMAKEEAA
GGEQDALDLYQHSLGELLLLLAAEPPGRRRELLHTEVQNL MARAEYLKEQVKMRESRWEADTL DKEGLS
ESVRSSCTLQ
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001284365

ORF Size: 1065 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.

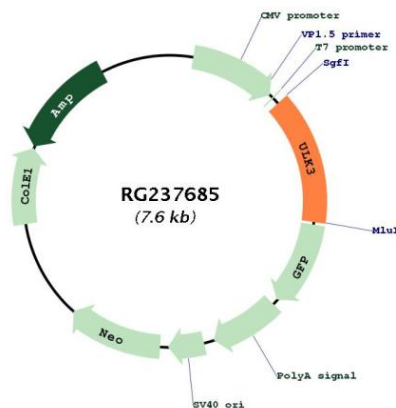
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM_001284365.3](#)

RefSeq Size: 2567 bp

RefSeq ORF:	1068 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:	40.7 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]

Product images:



Circular map for RG237685