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# Product datasheet for SC335579

## ULK3 (NM_001284365) Human Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | ULK3 (NM_001284365) 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:** | >SC335579 representing NM_001284365.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s)<br><br>GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG<br>GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC<br>ATGCAGCAATTAGCTAGCGCCCTGCAATTCCTGCATGAACGGAATATCTCTCACCTGGATCTGAAGCCA<br>CAGAACATTCTACTGAGCTCCTTGGAGAAGCCCCACCTAAAACTGGCAGACTTTGGTTTCGCACAACAC<br>ATGTCCCCGTGGGATGAGAAGCACGTGCTCCGTGGCTCCCCCCTCTACATGGCCCCCGAGATGGTGTGC<br>CAGCGGCAGTATGACGCCCGCGTGGACCTCTGGTCCATGGGGGTCATCCTGTATGAAGCCCTCTTCGGG<br>CAGCCCCCCTTTGCCTCCAGGTCGTTCTCGGAGCTGGAAGAGAAGATCCGTAGCAACCGGGTCATCGAG<br>CTCCCCTTGCGGCCCCTGCTCTCCCGAGACTGCCGGGACCTACTGCAGCGGCTCCTGGAGCGGGACCCC<br>AGCCGTCGCATCTCCTTCCAGGACTTTTTTGCGCACCCCTGGGTGGACCTGGAGCACATGCCCAGTGGG<br>GAGAGTCTGGGGCGAGCAACCGCCCTGGTGGTGCAGGCTGTGAAGAAAGACCAGGAGGGGGATTCAGCA<br>GCTGCCTTATCACTCTACTGCAAGGCTCTGGACTTCTTTGTACCTGCCCTGCACTATGAAGTGGATGCC<br>CAGCGGAAGGAGGCAATTAAGGCAAAGGTGGGGCAGTACGTGTCCCGGGCTGAGGAGCTCAAGGCCATC<br>GTCTCCTCTTCCAATCAGGCCCTGCTGAGGCAGGGGACCTCTGCCCGAGACCTGCTCAGAGAGATGGCC<br>CGGGACAAGCCACGCCTCCTAGCTGCCCTGGAAGTGGCTTCAGCTGCCATGGCCAAGGAGGAGGCCGCC<br>GGCGGGGAGCAGGATGCCCTGGACCTGTACCAGCACAGCCTGGGGGAGCTACTGCTGTTGCTGGCAGCG<br>GAGCCCCCGGGCCGGAGGCGGGAGCTGCTTCACACTGAGGTTCAGAACCTCATGGCCCGAGCTGAATAC<br>TTGAAGGAGCAGGTCAAGATGAGGGAATCTCGCTGGGAAGCTGACACCCTGGACAAAGAGGGACTGTCG<br>GAATCTGTTCGTAGCTCTTGCACCCTTCAGTGA<br>ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT<br>TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC |
| **Restriction Sites:** | SgfI-MluI |

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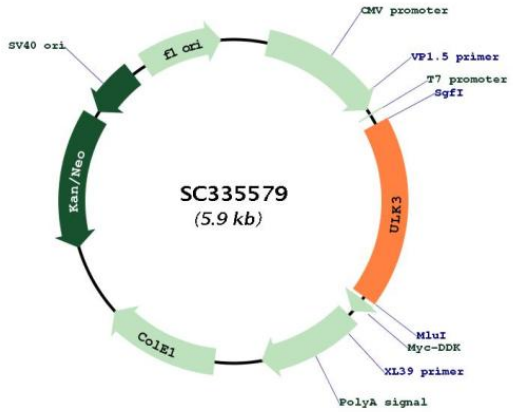
Plasmid Map:

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| **ACCN:** | NM_001284365 |
| **Insert Size:** | 1068 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001284365.2 |
| **RefSeq Size:** | 2567 bp |
| **RefSeq ORF:** | 1068 bp |
| **Locus ID:** | 25989 |
| **UniProt ID:** | Q6PHR2 |
| **Cytogenetics:** | 15q24.1 |

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| **Protein Families:** | Druggable Genome, Protein Kinase |
| **Protein Pathways:** | mTOR signaling pathway, Regulation of autophagy |
| **MW:** | 40.2 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]<br>Transcript Variant: This variant (3) uses an alternate splice site in the 5' region and initiates translation from a downstream in-frame start codon, compared to variant 1. The encoded isoform (c) is shorter than isoform a. |