

Product datasheet for **MC216515**

Ulk3 (NM_027895) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ulk3 (NM_027895) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ulk3
Synonyms:	1200015E14Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216515 representing NM_027895
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGGGCCAGCTGGGGTCTCCCTCGGCTGGACGGTTTCATCCTTACCGAGCGCTGGGCAGTGGCA
 CGTACGCCACGGGTACAAGGCCTACGCCAAGAAGGATACTCGGGAAGTGGTAGCCATAAAATGCGTGGC
 CAAGAAGAGTCTCAACAAGGCGTCAGTGGAAAACCTCCTGACTGAGATTGAGATCCTCAAGGGCATTTCGG
 CACCCCATATCGTGCAGCTGAAAGACTCCAGTGGGACAATGACAATATCTACCTCATCATGGAGTTCT
 GTGCAGGGGGTGACCTGTCTCGCTTCATTCATACCCGCAGGATCTGCCTGAGAAGGTGGCCCGTGT
 CATGCAGCAGTTGGCTAGTGCCTGCAGTTCCTGCATGAACGAAACATCTCTCACTTGGATCTGAAACCG
 CAGAACATCCTGTGAGCTCTTTGGAGAAGCCCCACCTGAAACTGGCAGACTTTGGCTTTGCCAGCACA
 TGTCCCGTGGGACGAAAAACACGTGCTCCGTGGCTCCCGCTCTATATGGCTCCTGAGATGGTGTGTCG
 GGGCAGTATGATGCGCGTGTGGACCTCTGGTCTGTGGGGTGATCCTGTACGAAGCCCTTTTGGGCAG
 CCCCCCTTGCCTCCAGATCGTTCTCAGAGCTAGAAGAAAAGATTCGCAGCAATCGGGTATTGAGCTCC
 CTCTTCGGCCCCAACTCTCCCTAGACTGCCGGACCTGTTGCAGCGACTTCTAGAGCGGGACCCCGCCCG
 TCGAATCTCCTTCAAGGACTTCTTTGCCATCCCTGGGTGGACCTGGAGCACATGCCAGTGGGGAGAGC
 CTGGCACAGGCAAGGGCCCTTGTGGTGGAGGCTGTGAAGAAGGACCAGGAGGGGGATGCTGCCGCTGCC
 TGTCTGCTACTGCAAGGCTCTGGACTTCTTTGTACCTGCGCTACACTACGAAGTGGATGCCAGAGGAA
 GGAGGCAATTAAGGCGAAGGTGGGACAGTATGTGTCCCGGCAGAGGAGCTCAAAGCCATTGTCTCTCC
 TCCAATCAGGCCCTGCTAAGACAGGGCACAACCTGCAAGAGCTGCTTCGAGAGATGGCCCGTGACAAAC
 CACGCCCTCTGGCTGCCCTGGAAGTGGCTCAGCTGCCCTGGCCAAGGAGGAGGAAGCTGGCAAAGAGCA
 GGATGCCCTGGACCTGTACCAGCACAGCCCTCGGGGAGCTGCTAGTGTGTTGGCAGCAGAGGCCCCAGGC
 CGAAGGCGGGAGCTCCTTACACCGAGGTTCAGAACCTCATGGCTCGAGCTGAATACCTGAAGGAGCAGA
 TCAAGATAAGGGAGTCTCACTGGGAAGCGGAGAGTCTGGACAAAGAGGGGCTGTCGGAGTCTGTTCTGAG
 TTCTTGCACACTGCAGTGA

ACCGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_027895

Insert Size: 1419 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_027895.1](#), [NP_082171.1](#)

RefSeq Size: 2826 bp

RefSeq ORF: 1419 bp

Locus ID: 71742

UniProt ID: [Q3U3Q1](#)

Cytogenetics: 9 B

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 (By similarity). [UniProtKB/Swiss-Prot Function]