

Product datasheet for **RN216748**

Ulk3 (NM_001271135) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ulk3 (NM_001271135) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ulk3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN216748 representing NM_001271135
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGGGTCCGGCTGGGGTCTCCCTCGGCTGGACGGTTTCATCCTTACCGAGCGCCTGGCGAGTGGCA
 CGTACGCCACGGGTACAAGGCCTACGCCAAGAAGGCTACTCGGGAAGTGGTAGCCATAAAATGCGTGGC
 CAAGAAAAGTCTCAACAAGGCGTCAGTGGAAAACCTCCTGACTGAGATTGAGATCCTCAAGGGCATTTCGG
 CACCCCATATCGTGCAGCTGAAAGACTTCCAGTGGGACAATGACAATATCTACCTCATCATGGAGTTCT
 GTGCAGGGGGTGACCTGTCTCGTTTCATCCATACCCGCAGGATTCTGCCTGAGAAGGTGGCCCGTGT
 CATGCAGCAGTTGGCTAGTGCCTGCAGTTCCTGCATGAACGAAACATCTCTCACTTGGATCTGAAGCCG
 CAGAACATCCTCCTGAGTTCTTTGGAGAAGCCCCACCTGAACTGGCAGACTTTGGCTTTGCCAGCATA
 TGTCCCGTGGGATGAGAAACATGTGCTTCGTGGCTCCCCGCTACATGGCTCCTGAGATGGTGTGTCG
 GCGGCAGTATGACGCGCTGTGGACCTCTGGTCTGTGGGGTTCATCCTGTACGAAGCTCTCTTTGGCGAG
 CCTCCCTTTGCCCTCCAGATCGTTCTCAGAGCTAGAAGAGAAGATTTCGTAGCAATCGGGTTATTGAGCTCC
 CTCTTCGGCCCCAACTCTCCCTAGACTGCCGGGACCTGTTGCAGCGACTTCTAGAGCGGGACCCAGCCA
 TCGAATCTCCTTTCAGGACTTCTTTGCCACCCCTGGGTGGACCTGGAGCACATGCCTAGTGGGGAGAGC
 CTGGCACAAGCAACAGCCCTTGTGGTGGAGGCCGTGAAGAAGGACCAGGAGGGGGACGCTGCTGCTGCC
 TGTCACTCTACTGCAAGGCCCTGGACTTCTTTGTACCTGCACTACACTACGAAGTGGATGCCAGAGGAA
 AGAGGGCATTAAAGGCGAAGGTGGGGCAGTATGTGTCCAGGGCAGAGGAGCTCAAAGCCATTGTCTCCTCC
 TCCAATCAGGCCCTGCTAAGGCAGGGCACAACCTGGCCAAGAGCTGCTGCGAGAGATGGCCCGTGACAAGC
 CACGCCCTCTAGCTGCCCTGGAAGTGGCCTCAGCTGCCATGGCCAAGGAGGAGGAAGCTGGCAAAGAGCA
 GGATGCCCTGGACCTGTACCAGCACAGCCCTCGGGGAGCTGCTACTGCTGTTGGCAGCAGAAAGCCAGGC
 CGAAGGCGGGAGCTCCTTCACTGAGGTTCAGAACCTCATGGCTCGAGCTGAATACCTGAAGGAGCAGA
 TCAAGATCAGGGAATCTCACTGGGAAGCAGAGAGTCTGGACAAAGAGGGGCTGTCGGAGTCTGTTCAAG
 TTCTTGCACACTGCAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001271135
- 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001271135.1](#), [NP_001258064.1](#)

RefSeq Size: 1729 bp

RefSeq ORF: 1419 bp

Locus ID: 691171

UniProt ID: [D3ZHP7](#)

Cytogenetics: 8q24

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]