

Product datasheet for **MG219200**

Ulk3 (NM_027895) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ulk3 (NM_027895) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ulk3
Synonyms:	1200015E14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219200 representing NM_027895
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGGGCCAGCTGGGGTCTCCCTCGCTGGACGGTTTCATCCTTACCGAGCGCTGGGCAGTGGCA
 CGTACGCCACGGTGTACAAGGCCTACGCCAAGAAGGATACTCGGGAAGTGGTAGCCATAAAATGCGTGGC
 CAAGAAGAGTCTCAACAAGGCGTCAGTGGAAAACCTCCTGACTGAGATTGAGATCCTCAAGGGCATTTCGG
 CACCCCATATCGTGCAGCTGAAAGACTTCCAGTGGGACAATGACAATATCTACCTCATCATGGAGTTCT
 GTGCAGGGGGTGACCTGTCTCGCTTCATTCATACCCGCAGGATCTGCCTGAGAAGGTGGCCCGTGT
 CATGCAGCAGTTGGCTAGTGCCTGCAGTTCCTGCATGAACGAAACATCTCTCACTTGGATCTGAAACCG
 CAGAACATCCTGTGAGCTCTTTGGAGAAGCCCCACCTGAACTGGCAGACTTTGGCTTTGCCAGCACA
 TGTCCCGTGGGACGAAAAACACGTGCTCCGTGGCTCCCGCTCTATATGGCTCCTGAGATGGTGTGTCG
 GCGGCAGTATGATGCGCGTGTGGACCTCTGGTCTGTGGGGGTGATCCTGTACGAAGCCCTCTTTGGCAG
 CCCCCCTTGCCTCCAGATCGTTCTCAGAGCTAGAAGAAAAGATTTCGACGCAATCCGGTGATTGAGCTCC
 CTCTTCGGCCCCAACTCTCCCTAGACTGCCGGGACCTGTTGCAGCGACTTCTAGAGCGGGACCCCGCCCG
 TCGAATCTCCTCAAGGACTTCTTTGCCATCCCTGGGTGGACCTGGAGCACATGCCAGTGGGGAGAGC
 CTGGCACAGGCAAGGGCCCTTGTGGTGGAGGCTGTGAAGAAGGACCAGGAGGGGGATGCTGCCGCTGCC
 TGTCTGCTACTGCAAGGCTCTGGACTTCTTTGTACCTGCGCTACACTACGAAGTGGATGCCAGAGGAA
 GGAGGCAATTAAGGCGAAGGTGGGACAGTATGTGTCCCGGCAGAGGAGCTCAAAGCCATTGTCTCTCC
 TCCAATCAGGCCCTGCTAAGACAGGGCACAACGTCCAAGAGCTGCTTCGAGAGATGGCCCGTGACAAAC
 CACGCCCTCTGGCTGCCCTGGAAGTGGCTCAGCTGCCCTGGCCAAGGAGGAGGAAGCTGGCAAAGAGCA
 GGATGCCCTGGACCTGTACCAGCACAGCCTCGGGGAGCTGCTAGTGTGTTGGCAGCAGAGGCCCCAGGC
 CGAAGGCGGGAGCTCCTTACACCGAGGTTCAGAACCTCATGGCTCGAGCTGAATACCTGAAGGAGCAGA
 TCAAGATAAGGGAGTCTCACTGGGAAGCGGAGAGTCTGGACAAAGAGGGGCTGTCGGAGTCTGTTCTAG
 TTCTTGCACACTGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219200 representing NM_027895
 Red=Cloning site Green=Tags(s)

MAGPSWGLPRLDGFILTERLGSPTYATVYKAYAKKDTREVVAIKCVAKKSLNKASVENLLTEIEILKGIR
 HPHIVQLKDFQWDNDNIYLIMEFCAGGDLSRFIHTRRILPEKVARVFMQQLASALQFLHERNISHLDLKP
 QNILLSSLEKPHLKLADFGFAQHMSPWDEKHLVRSPLYMAPEMVCRRQYDARVDLWSVGVILYEALFGQ
 PPFASRSFSELEEKIRSNRVIELPLRPQLSLDCRDLLQRLLERDPARRISFKDFFAHPWVDLEHMPSGES
 LAQARALVVEAVKKDQEGDAAAALSLYCKALDFVFPALHYEVDARKEAIKAKVGQYVSRAEELKAIYSS
 SNQALLRQGTTVQELLREMARKPRLAALVASAALAKEEEAGKEQDALDLYQHSLGELLVLLAAEAPG
 RRRELLHTEVQNLMARAEYLKEQIKIRESHWEAESLDKEGLSESVRSCTLQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

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]