

Product datasheet for **MG202766**

Uchl3 (NM_016723) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Uchl3 (NM_016723) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Uchl3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202766 representing NM_016723
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGGTCAACGCTGGCTGCCGCTGGAGGCCAACCCCTGAGGTCACCAACCAGTTTCTCAAGCAGTTAG
GCCTGCATCCTAACTGGCAGTTTGTGTGTACGGAATGGAGCCTGAAGTTCTTAGCATGGTACCAAG
ACCAAGTATGCGCAGTGTTACTCCTCTCCCTATCACAGAAAAGTATGAAGTCTTCAGAACAGAAGAGGAA
GAAAAGATAAAATCTCAAGGACAAGATGTGACATCATCAGTATATTTTATGAAACAAACCATCAGCAATG
CCTGTGGAACGATTGGACTAATCCATGCCATTGCGAACAACAAGACAAGATGCACTTCGAATCAGGGTC
AACATTGAAAAAGTTCTGGAGGAGTCTGTATCAATGAGCCCTGAAGAGAGAGCCAAATTCCTGGAGAAC
TATGACGCTATTCGAGTTACTCATGAAACCAGTGACATGAAGGTCAGACTGAGGCACCAAGTATAGATG
AAAAAGTAGATCTTCATTTTATTGCGTTAGTACATGTAGATGGGCATCTCTATGAATTAGATGGACGGAA
ACCATTTCCAATTAACCATGGGAAAAGTGTGATGAGACGTTGTTAGAGGATGCCATAGAAGTTTGAAG
AAGTTCATGGAACGCGACCCTGATGAGTTAAGATTTAATGCAATTGCTCTCAGCGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202766 representing NM_016723
Red=Cloning site Green=Tags(s)

MEGQRWLPLEANPEVTNQFLKQLGLHPNWQFVDVYGMPELLSMVPRPVCVAVLLLPITEKYEVRTEEE
EKIKSQGDVTSVYFMKQTIISNACGTIGLIHAIANNKDKMHFESGSTLKKFLEESVMSPEERAKFLEN
YDAIRVTHETSAHEGQTEAPSIDEKVDLHFIALVHVDGHLVELDGRKPPFINHGKTSDETLLEDAIEVCK
KFMERDPDELRFNAIALSAA

TRTRPLE - GFP Tag - V

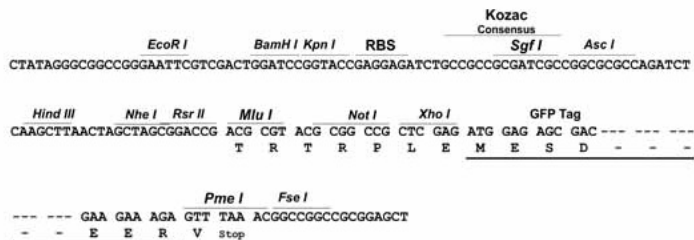
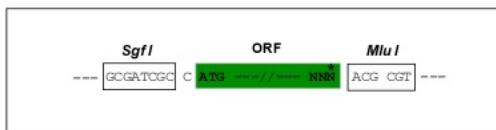


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Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_016723

ORF Size: 690 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).

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_016723.2](#), [NP_057932.2](#)

RefSeq Size: 947 bp

RefSeq ORF: 693 bp

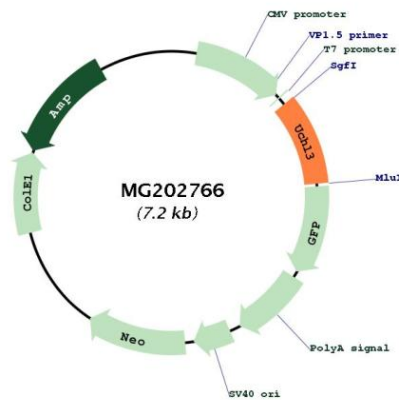
Locus ID: 50933

UniProt ID: [Q9JKB1](#)

Cytogenetics: 14 50.9 cM

Gene Summary: Deubiquitinating enzyme (DUB) that controls levels of cellular ubiquitin through processing of ubiquitin precursors and ubiquitinated proteins. Thiol protease that recognizes and hydrolyzes a peptide bond at the C-terminal glycine of either ubiquitin or NEDD8. Has a 10-fold preference for Arg and Lys at position P3", and exhibits a preference towards 'Lys-48'-linked ubiquitin chains. Deubiquitinates ENAC in apical compartments, thereby regulating apical membrane recycling. Indirectly increases the phosphorylation of IGFIR, AKT and FOXO1 and promotes insulin-signaling and insulin-induced adipogenesis. Required for stress-response retinal, skeletal muscle and germ cell maintenance. May be involved in working memory. Can hydrolyze UBB(+1), a mutated form of ubiquitin which is not effectively degraded by the proteasome.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG202766