

Product datasheet for **MR226429**

Otub2 (NM_001177841) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Otub2 (NM_001177841) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Otub2
Synonyms:	2010015L18Rik; 4930586I02Rik; AI413508; AW557219; OTB2; OTU2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226429 representing NM_001177841 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCTCCCTCCAGTCTCCAGGACCTCATTCTCGCTTCCATCTGAGGCGCCATCCTCGGGCCTCT
TTTGTGCCAGTTCCTGCCAGCGCTCTCACACAGAATCTTCTGGGAAGACCCCACTTTACCTTCTGTTCT
CCGTCTTGCTTACCCACTCCAAAATCGCCCTTGGTGGCCTGTTACAGCTGCGAAGGCTGCTCCAGCAT
CCTCCAGGGAGGTGTCCAGCTGTAGCCACTGCCCATCCGAAGCCTTCATGTCTGCAGAGTGAACAT
CTTTCAACCTAATATCAGAAAAATGTGACATTCTATCCATTCTTCGGGATCATCTGAAAACAGGATTTA
CCAGAGGAAAATCCAGGAACTCAGCAAAAAGATTACCTCGATCCGGAAGACCAAAGGAGACGGAACTGC
TTCTACAGGGCCTTAGGCTATTCCTACCTGGAGTCTTGGCTGGGCAAGAGCAGAGAGATCCTCAAGTTCA
AAGAGCGTGTGCTACAGACCCCAATGACCTTCTGGCTGCCGGCTTTGAGGAACACAAGTTCAGAACTT
CTTTAATGCTTTTTACAGTGTGGTTGAGCTGGTAGAGAAGGATAGCTCAGTGTCCAGCCTGCTGAAGGTG
TTCAATGACCAGAGTTCCCTCGGACCGAATCGTGCACTTCTTACGCCTCCTCACGTCCGCCTTCATCAGGA
ACCGAGCTGACTTCTCCGACATTTTATTGATGAGGAGATGGACATCAAAGACTTCTGCACTCACGAAGT
AGAGCCCATGGCCATGGAGTGTGACCACGTGCAGATCACAGCCCTGTCCGAGGCACTCAACATTGCTCTG
CAGGTAGAGTACGTCGACGAGATGGACACCGCTCTGAACCACCAGTGTTCCTCCGAGGCTGCCATCCCTT
CGGTTTATCTGCTCTATAAAACATCCCACTACAACATCCTTTACGCAGCCGAGAAACAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR226429 representing NM_001177841
Red=Cloning site Green=Tags(s)

MALPSSLQDLIPRFHLRRHPRGLFCASSCQRSHTESSGKTPTLPSVLRLVLPTPKSPLVACSQLRRLQHPGRCPCSHCP
 IPKPSCLQSETSFNLISEKCDILSILRDHPENRIYQRKIQELSKRFTSIRKTKGDGNCYRALGYSYLESLLGKSREILKFKERVLQTPNDLLAAGFEEHKFRNFFNAFYSVVELVEKDSSVSSLLKVFNDQSSSDRIVQFLRLL
 TSAFIRNRADFFRHFIDEEMDIKDFCTHEVEPMAMECDHVQITALSQALNIALQVEYVDMDTALNHHVFPEAAIPSVYLLYKTS
 HYNILYAAEKH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9060_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001177841

ORF Size: 969 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_001177841.1](#), [NP_001171312.1](#)

RefSeq Size: 3239 bp

RefSeq ORF: 972 bp

Locus ID: 68149

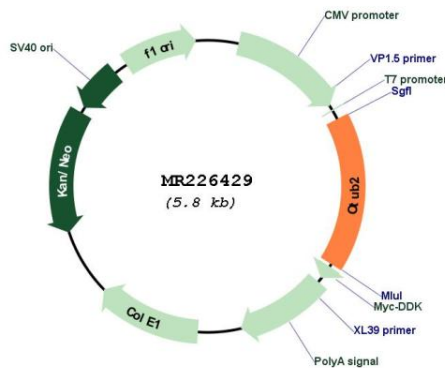
UniProt ID: [Q9CQX0](#)

Cytogenetics: 12 E

MW: 37.1 kDa

Gene Summary: Hydrolase that can remove conjugated ubiquitin from proteins in vitro and may therefore play an important regulatory role at the level of protein turnover by preventing degradation. Mediates deubiquitination of 'Lys-11', 'Lys-48' and 'Lys-63'-linked polyubiquitin chains, with a preference for 'Lys-63'-linked polyubiquitin chains (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226429