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Product datasheet for RC209650

OTUB2 (NM_023112) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OTUB2 (NM_023112) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OTUB2
Synonyms:	C14orf137; OTB2; OTU2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC209650 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTGAAACATCTTTCAACCTAATATCAGAAAAATGTGACATTCTATCCATTCTTCGGGACCATCCTG
AAAACAGGATTTACCGGAGGAAAATCGAGGAACTCAGCAAAAGGTTCACCGCCATCCGCAAGACCAAAGG
GGATGGGAACTGCTTCTACAGGGCCTTGGGCTATTCCTACCTGGAGTCCCTGCTGGGGAAGAGCAGGGAG
ATCTTCAAGTTCAAAGAACGCGTACTGCAGACCCCAAATGACCTTCTGGCTGCTGGCTTTGAGGAGCACA
AGTTCAGAAACTTCTTCAATGCTTTTTACAGTGTGGTGGAACTGGTAGAGAAGGACGGCTCAGTGTCCAG
CCTGCTGAAGGTGTTCAACGACCAGAGTGCCTCGGACCACATCGTGCAGTTCCTGCGCCTGCTCACGTCG
GCCTTCATCAGGAACCGAGCAGACTTCTTCCGGCACTTCATTGATGAGGAGATGGACATCAAAGACTTCT
GCACTCACGAAGTAGAGCCCATGGCCACGGAGTGTGACCACATCCAGATCACGGCGTTGTCGCAGGCCCT
GAGCATTGCCCTGCAAGTGGAGTACGTGGACGAGATGGATACCGCCCTGAACCACCACGTGTTCCCTGAG
GCCGCCACCCCTTCCGTTTACCTGCTCTATAAAACATCCCACTACAACATCCTTTATGCAGCCGATAAAC
AT

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC209650 protein sequence
Red=Cloning site Green=Tags(s)

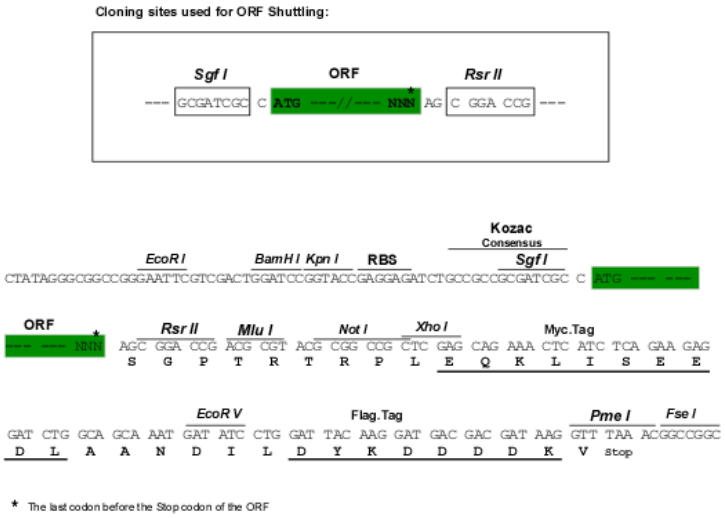
MSETSFNLISEKCDILSILRDHPENRIYRRKIEELSKRFTAIRKTKGDGNCFYRALGYSYLESLLGKSRE
IFKFKERVLQTPNDLLAAGFEEHKFRNFFNAFYSVVELVEKDGSVSSLLKVFNDQSASDHIVQFLRLLTS
AFIRNRADFFRHFIDEEMDIKDFCTHEVEPMATECDHIQITALSQALSIALQVEYVDEMDTALNHHVFPE
AATPSVYLLYKTSHYNILYAADKH

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6183_a11.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_023112

ORF Size: 702 bp

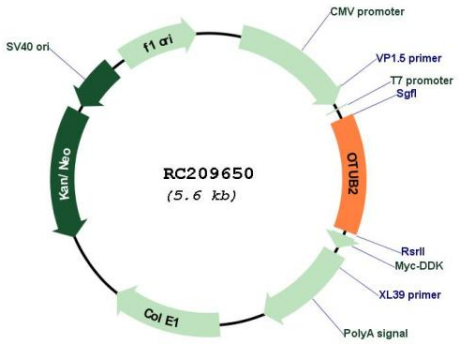
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

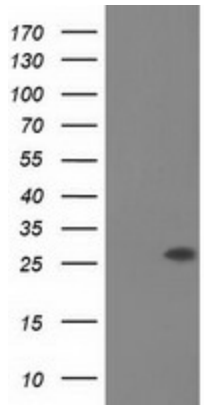
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_023112.1
RefSeq Size:	3873 bp
RefSeq ORF:	705 bp
Locus ID:	78990
UniProt ID:	Q96DC9
Cytogenetics:	14q32.12
Protein Families:	Protease
MW:	27.2 kDa
Gene Summary:	This gene encodes one of several deubiquitylating enzymes. Ubiquitin modification of proteins is needed for their stability and function; to reverse the process, deubiquityling enzymes remove ubiquitin. This protein contains an OTU domain and binds Ubal (ubiquitin aldehyde); an active cysteine protease site is present in the OTU domain. [provided by RefSeq, Aug 2011]

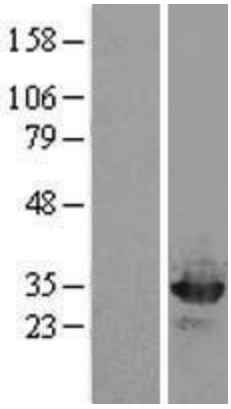
Product images:



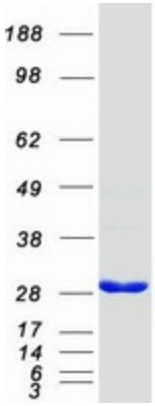
Circular map for RC209650



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY OTUB2 (Cat# RC209650, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-OTUB2(Cat# [TA501946]). Positive lysates [LY402958] (100ug) and [LC402958] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402958]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209650 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified OTUB2 protein (Cat# [TP309650]). The protein was produced from HEK293T cells transfected with OTUB2 cDNA clone (Cat# RC209650) using MegaTran 2.0 (Cat# [TT210002]).