

Product datasheet for **RG210648**

OTUB1 (NM_017670) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OTUB1 (NM_017670) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OTUB1
Synonyms:	HSPC263; OTB1; OTU1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210648 representing NM_017670 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGGAGGAACCTCAGCAGCAGAAGCAGGAGCCGCTGGGCAGCGACTCCGAAGGTGTTAACTGTC
TGGCCTATGATGAAGCCATCATGGCTCAGCAGGACCGAATTCAGCAAGAGATTGCTGTGCAGAACCCTCT
GGTGTGAGCGGCTGGAGCTCTCGTCTATAACAAGGAGTATGCTGAAGATGACAACATCTATCAACAG
AAGATCAAGGACCTCCACAAAAAGTACTCGTACATCCGCAAGACCAGGCCTGACGGCAACTGTTTCTATC
GGCTTTTCGGATTCTCCCACTTGGAGGCACTGCTGGATGACAGCAAGGAGTTGCAGCGGTTCAAGGCTGT
GTCTGCCAAGAGCAAGGAAGACCTGGTGTCCAGGGCTTCACTGAATTCACAATTGAGGATTTCCACAAC
ACGTTCATGGACCTGATTGAGCAGTGGAGAAGCAGACCTCTGTGCGCCGACCTGTGGCCTCCTTCAATG
ACCAGAGCACCTCCGACTACCTTGTGGTCTACCTGCGGCTGCTCACCTCGGGCTACCTGCAGCGCGAGAG
CAAGTTCTTCGAGCACTTCATCGAGGGTGGACGGACTGTCAAGGAGTTCTGCCAGCAGGAGGTGGAGCCC
ATGTGCAAGGAGAGCGACCACATCCACATCATTGCGCTGGCCAGGCCCTCAGCGTGTCCATCCAGGTGG
AGTACATGGACCGCGCGAGGGCGGCACCACCAATCCGCACATCTCCCTGAGGGCTCCGAGCCCAAGGT
CTACCTTCTACCGGCTGGACACTACGATATCCTCTACAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG210648 representing NM_017670
 Red=Cloning site Green=Tags(s)

MAAEEPQQKQEPLGSDSEGVNCLAYDEAIMAQQDRIQQEIAVQNPLVSRLELSVLKEYAEDDNIYQQ
 KIKDLHKKYSYIRKTRPDGNCFYRAFGFSHLEALLDDSKELQRFKAVSAKSKEDLVSQGFTEFTIEDFHN
 TFMDLIEQVEKQTSVADLLASFNDQSTSDYLVVYLRLLTSGYLQRESKFFEHFIEGGRTVKEFCQQEVEP
 MCKESDHIHIIALAQAQALSVSIQVEYMDRGEGETTNPHIFPEGSEPKVYLLYRPGHYDILYK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017670

ORF Size: 813 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_017670.2](#)

RefSeq Size: 1747 bp

RefSeq ORF: 816 bp

Locus ID: 55611

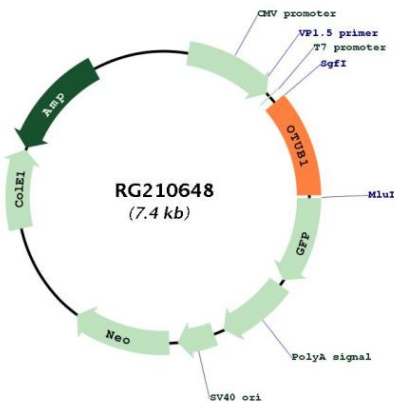
UniProt ID: [Q96FW1](#)

Cytogenetics: 11q13.1

Protein Families: Protease

Gene Summary: The product of this gene is a member of the OTU (ovarian tumor) superfamily of predicted cysteine proteases. The encoded protein is a highly specific ubiquitin iso-peptidase, and cleaves ubiquitin from branched poly-ubiquitin chains but not from ubiquitinated substrates. It interacts with another ubiquitin protease and an E3 ubiquitin ligase that inhibits cytokine gene transcription in the immune system. It is proposed to function in specific ubiquitin-dependent pathways, possibly by providing an editing function for polyubiquitin chain growth. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210648