

## Product datasheet for **RG226729**

### OTUD5 (NM\_001136159) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OTUD5 (NM_001136159) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OTUD5
Synonyms:	DUBA; MCAND
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG226729 representing NM_001136159 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGGAGGATGGCGCCTGTCTCTTCCGGGCTGTAGCTGACCAGGTGTATGGAGACCAGGACATGCATG  
AGGTTGTGCGAAAGCATTGCATGGACTATCTGATGAAGAATGCCGACTACTTCTCCAACATGTCACAGA  
GGACTTTACCACCTACATTAACAGGAAGCGGAAAAACAATTGCCATGGCAACCACATTGAGATGCAGGCC  
ATGGCAGAGATGTACAACCGTCTGTGGAGGTGTACCAGTACAGCACAGAACCCATCAACACATTCCATG  
GGATACATCAAAAACGAGGACGAACCCATTTCGTGTAGCTACCATCGGAATATCCACTATAATTCAGTGGT  
GAATCCTAACAAGGCCACCATTTGGTGTGGGGCTGGGCCTGCCATCATTCAAACGAGGTTTGCAGAGCAG  
TCTCTGATGAAGAATGCCATAAAAAATCGGAGGAGTCATGGATTGAACAGCAGATGCTAGAAGACAAGA  
AACGGGCCACAGACTGGGAGGCCACAAATGAAGCCATCGAGGAGCAGGTGGCTCGGGAATCCTACCTGCA  
GTGGTTGCGGGATCAGGAGAAACAGGCTCGCCAGGTCCGAGGCCAGCCAGCCCCGAAAGCCAGCGCC  
ACATGCAGTTCGGCCACAGCAGCAGCCTCCAGTGGCCTGGAGGAGTGGACTAGCCGGTCCCCGCGGCAGC  
GGAGTTCAGCCTCGTACCTGAGCACCTGAGCTGCATGCTGAATTGGGCATGAAGCCCCCTTCCCAGG  
CACTGTTTTAGCTCTTGCCAAACCTCCTTCGCCCTGTGCGCCAGGTACAAGCAGTCAGTTCTCGGCAGGG  
GCCGACCGGCAACTTCCCCCTTGTGTCCTTACCCTGCTTTGGAGTGCCGGGCCCTCATTTCAGCAGA  
TGTCCCCCTCTGCCTTTGGTCTGAATGACTGGGATGATGATGAGATCCTAGCTTCGGTGCTGGCAGTGTC  
CCAACAGGAATACCTAGACAGTATGAAGAAAAACAAGTGCACAGAGACCCGCCCCAGACAAGAGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG226729 representing NM\_001136159  
 Red=Cloning site Green=Tags(s)

MKEDGACLFRAVADQVYGDQDMHEVVRKHCMDYLMKNADYFSNYVTEDFTTYINRKRKNNCHGNHIEMQA  
 MAEMYNRPVEVYQYSTEPINTFFHGIHQNEDEPIRVSYHRNIHYNVVPNKATIGVGLGLPSFKPGFAEQ  
 SLMKNAIKTSEESWIEQQMLEDKKRATDWEATNEAIEEQVARES YLQWLRDQEKQARQVRGPSQPRKASA  
 TCSSATAAASSGLEEWT SRSPRQRSSASSPEHPHELHAELGMKPPSPGTVLALAKPPSPCAPGTSSQF SAG  
 ADRATSPLVSLYPALECRALIQQMSPSAFGLNDWDDDEILASVLAVSQQEYLD SMKKNKVHRDPPDPKS

TRTRPLE - GFP Tag - V

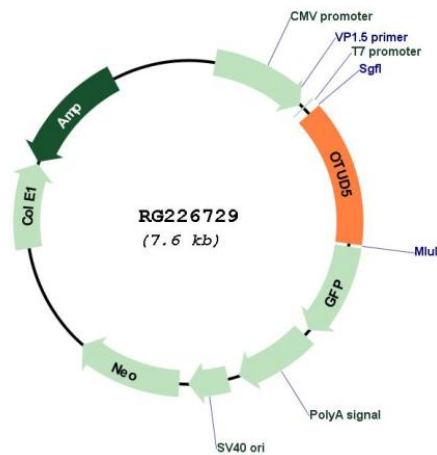
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001136159

**ORF Size:** 1047 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001136159.2</a>
<b>RefSeq Size:</b>	2426 bp
<b>RefSeq ORF:</b>	1050 bp
<b>Locus ID:</b>	55593
<b>UniProt ID:</b>	<a href="#">Q96G74</a>
<b>Cytogenetics:</b>	Xp11.23
<b>Protein Families:</b>	Protease
<b>Protein Pathways:</b>	RIG-I-like receptor signaling pathway
<b>Gene Summary:</b>	This gene encodes a member of the OTU (ovarian tumor) domain-containing cysteine protease superfamily. The OTU domain confers deubiquitinase activity and the encoded protein has been shown to suppress the type I interferon-dependent innate immune response by cleaving the polyubiquitin chain from an essential type I interferon adaptor protein. Cleavage results in disassociation of the adaptor protein from a downstream signaling complex and disruption of the type I interferon signaling cascade. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Oct 2008]