

Product datasheet for **MG211381**

Usp15 (NM_027604) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp15 (NM_027604) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Usp15
Synonyms:	4921514G19Rik; AI327321; E430033I05Rik; Gcap; Gcap18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG211381 representing NM_027604
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAAGCGGAGCGCGGACCTGGACACCCAGCGTTCTGACATCGCGACGCTGCTCAAACCTCGC
 TCCGGAAGGGGACACCTGGTATCTAGTAGATAGTCGGTGGTTCAAACAGTGGAATAATGTTGGCTT
 TGACAGCTGGGACAAATACCAGATGGGAGATCAAATGTCTATCCTGGACCCATCGATAACTCTGGACTT
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 AAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211381 representing NM_027604
 Red=Cloning site Green=Tags(s)

MAEGGAADLDTQRSDIATLLKTSRKGDTWYLVDSRWFQWKYVGFDSWDKYQMGDQNVYPGPIDNSGL
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 SYRYMRDKLDTLVDFPISDLDMSEFLINPNAGPCRYNLIAYSNHYGMMGGGHYAFKKNKDDGKWFYFDD
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 N

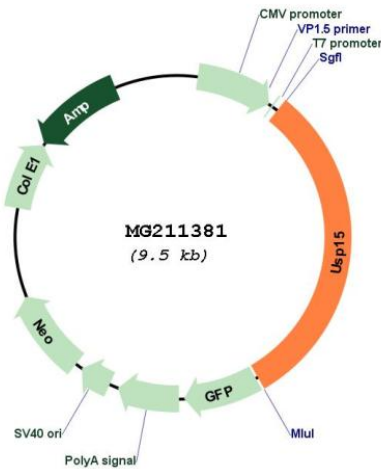
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_027604

ORF Size: 2943 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_027604.3](#), [NP_081880.2](#)

RefSeq Size: 3215 bp

RefSeq ORF: 2946 bp

Locus ID: 14479

UniProt ID: [Q8R5H1](#)

Cytogenetics: 10 D2

Gene Summary:

The protein encoded by this gene is a member of the large ubiquitin specific protease (Usp) family of proteins. These proteins are known to cleave ubiquitin, and contain a conserved cysteine residue (Cys box) and two conserved histidine residues (His box) that are thought to form part of the active site of the protease. This protein has been shown to cleave both the ubiquitin-proline and the ubiquitin-methionine bonds in vitro. This protein is thought to regulate many cellular processes through its deubiquitination activity, including the transforming growth factor beta (TGF-beta) pathway. Cardiac-specific overexpression of the human ortholog of this gene in mice causes enlargement of the heart that is more pronounced in the atrium than in the ventricle. This gene has two pseudogenes on chromosome 14. Alternative splicing results in multiple transcript variants that encode multiple protein isoforms.[provided by RefSeq, Aug 2014]