

## Product datasheet for RR208788L4

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OriGene Technologies, Inc.

## Usp28 (NM\_001108144) Rat Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: Usp28 (NM\_001108144) Rat Tagged Lenti ORF Clone

Tag: mGFP Symbol: Usp28

Mammalian Cell Puromycin

Selection:

Vector:

pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of

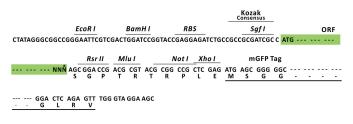
Sequence:

The ORF insert of this clone is exactly the same as(RR208788).

**Restriction Sites:** Sgfl-Rsrll

**Cloning Scheme:** 





\* The last codon before the Stop codon of the ORF.

ACCN: NM\_001108144

ORF Size: 3237 bp

## Usp28 (NM\_001108144) Rat Tagged Lenti ORF Clone - RR208788L4

**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: <u>NM 001108144.1</u>, <u>NP 001101614.1</u>

8q23

 RefSeq Size:
 4171 bp

 RefSeq ORF:
 3240 bp

 Locus ID:
 315639

 UniProt ID:
 D3ZJ96

Cytogenetics:

**Gene Summary:** Deubiquitinase involved in DNA damage response checkpoint and MYC proto-oncogene

stability. Involved in DNA damage induced apoptosis by specifically deubiquitinating proteins of the DNA damage pathway such as CLSPN. Also involved in G2 DNA damage checkpoint, by

deubiquitinating CLSPN, and preventing its degradation by the anaphase promoting complex/cyclosome (APC/C). In contrast, it does not deubiquitinate PLK1. Specifically deubiquitinates MYC in the nucleoplasm, leading to prevent MYC degradation by the

hence preventing ZNF304 degradation by the proteasome and leading to the activated KRAS-mediated promoter hypermethylation and transcriptional silencing of tumor suppressor genes (TSGs) in a subset of colorectal cancers (CRC) cells.[UniProtKB/Swiss-Prot Function]

proteasome: acts by specifically interacting with FBXW7 (FBW7alpha) in the nucleoplasm and counteracting ubiquitination of MYC by the SCF(FBXW7) complex. Deubiquitinates ZNF304,