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# Product datasheet for RC213090L3V

## USP20 (NM_001008563) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | USP20 (NM_001008563) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | USP20 |
| **Synonyms:** | hVDU2; LSFR3A; VDU2 |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| **Tag:** | Myc-DDK |
| **ACCN:** | NM_001008563 |
| **ORF Size:** | 2739 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(RC213090). |
| **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. |
| **RefSeq:** | NM_001008563.1 |
| **RefSeq Size:** | 4459 bp |
| **RefSeq ORF:** | 2745 bp |
| **Locus ID:** | 10868 |
| **UniProt ID:** | Q9Y2K6 |
| **Cytogenetics:** | 9q34.11 |
| **Protein Families:** | Druggable Genome, Protease |
| **MW:** | 101.9 kDa |

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**Gene Summary:** This gene encodes a ubiquitin specific processing protease that was first identified as a substrate of the VHL (von Hippel-Lindau disease) protein E3 ubiquitin ligase complex. In addition to being ubiquitinated by the VHL-E3 ligase complex, this enzyme deubiquitinates hypoxia-inducible factor (HIF)-1 alpha and thereby causes increased expression of HIF-1alpha targeted genes which play a role in angiogenesis, glucose metabolism, cell proliferation and metastasis. The enzyme encoded by this gene also regulates G-protein coupled receptor signaling by mediating the deubiquitination of beta-2 adrenergic receptor (ADRB2). This enzyme is a ubiquitously expressed thiolester hydrolase. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jan 2013]