

Product datasheet for **RR211933L4V**

Uba1 (NM_001014080) Rat Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Uba1 (NM_001014080) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Uba1
Synonyms:	Ube1x
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001014080
ORF Size:	3174 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR211933).
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_001014080.1 , NP_001014102.1
RefSeq Size:	3618 bp
RefSeq ORF:	3177 bp
Locus ID:	314432
UniProt ID:	Q5U300
Cytogenetics:	Xq11



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Gene Summary:

Catalyzes the first step in ubiquitin conjugation to mark cellular proteins for degradation through the ubiquitin-proteasome system. Activates ubiquitin by first adenylating its C-terminal glycine residue with ATP, and thereafter linking this residue to the side chain of a cysteine residue in E1, yielding a ubiquitin-E1 thioester and free AMP. Essential for the formation of radiation-induced foci, timely DNA repair and for response to replication stress. Promotes the recruitment of TP53BP1 and BRCA1 at DNA damage sites.[UniProtKB/Swiss-Prot Function]