

Product datasheet for **RC211950L2V**

E2 230K (UBE2O) (NM_022066) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	E2 230K (UBE2O) (NM_022066) Human Tagged ORF Clone Lentiviral Particle
Symbol:	E2 230K
Synonyms:	E2-230K
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_022066
ORF Size:	3876 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC211950).
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_022066.2
RefSeq Size:	5073 bp
RefSeq ORF:	3879 bp
Locus ID:	63893
UniProt ID:	Q9C0C9
Cytogenetics:	17q25.1
Domains:	UBCc
Protein Pathways:	Ubiquitin mediated proteolysis



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MW: 141.1 kDa

Gene Summary: E2/E3 hybrid ubiquitin-protein ligase that displays both E2 and E3 ligase activities and mediates monoubiquitination of target proteins (PubMed:23455153, PubMed:24703950). Negatively regulates TRAF6-mediated NF-kappa-B activation independently of its E2 activity (PubMed:23381138). Acts as a positive regulator of BMP7 signaling by mediating monoubiquitination of SMAD6, thereby regulating adipogenesis (PubMed:23455153). Mediates monoubiquitination at different sites of the nuclear localization signal (NLS) of BAP1, leading to cytoplasmic retention of BAP1. Also able to monoubiquitinate the NLS of other chromatin-associated proteins, such as INO80 and CXXC1, affecting their subcellular location (PubMed:24703950). Acts as a regulator of retrograde transport by assisting the TRIM27:MAGEL2 E3 ubiquitin ligase complex to mediate 'Lys-63'-linked ubiquitination of WASHC1, leading to promote endosomal F-actin assembly (PubMed:23452853). [UniProtKB/Swiss-Prot Function]