

Product datasheet for RC214303L1

USP51 (NM_201286) Human Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	USP51 (NM_201286) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	USP51
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC214303).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I GCG ATC GC ATG / / NNN ACG CGT
	Kozak Consensus
	EcoR I BamH I RBS Sgf I ORF CTATAGGGCGGCCGGGAATTCGTCGACTGGACTCGGTACCGGAGAGATCTGCCGCCGCGCGACTGC C ATG
	Mlu I Not I <u>Xho I</u> Myc.Tag

GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGCC D L A A N D I L D Y K D D D K V stop

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

ACCN: ORF Size: NM_201286 2133 bp

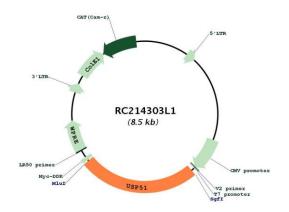


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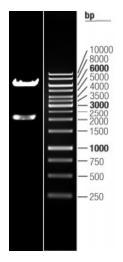
Service Service USP51 (NM_201286) Human Tagged Lenti ORF Clone – RC214303L1	
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 201286.2</u>
RefSeq Size:	2490 bp
RefSeq ORF:	2136 bp
Locus ID:	158880
UniProt ID:	<u>Q70EK9</u>
Cytogenetics:	Xp11.21
Protein Families:	Druggable Genome, Protease
MW:	79.6 kDa
Gene Summary:	Specifically deubiquitinates 'Lys-14' (H2AK13Ub) and 'Lys-16'(H2AK15Ub) of histone H2A regulating the DNA damage response at double-strand breaks (DSBs) (PubMed:27083998). USP51 is recruited to chromatin after DNA damage and regulates the dynamic assembly/disassembly of TP53BP1 and BRCA1. Exhibits also activity for 'Lys-27' or 'Lys-63'- linked di-ubiquitin (PubMed:27083998).[UniProtKB/Swiss-Prot Function]

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Product images:



Circular map for RC214303L1



Double digestion of RC214303L1 using Sgfl and Mlul

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