

Product datasheet for RC202624L3

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

CN: techsupport@origene.cn

OriGene Technologies, Inc.

USP5 (NM_003481) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: USP5 (NM_003481) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: USP5

Synonyms: ISOT

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

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

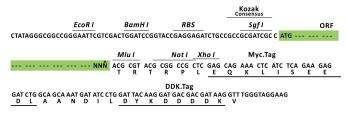
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC202624).

Sgfl-Mlul

Sequence:

Restriction Sites: Cloning Scheme:





 $[\]ensuremath{^*}$ The last codon before the Stop codon of the ORF.

ACCN: NM_003481

ORF Size: 2505 bp





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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 003481.1</u>

 RefSeq Size:
 3130 bp

 RefSeq ORF:
 2508 bp

 Locus ID:
 8078

 UniProt ID:
 P45974

Cytogenetics: 12p13.31

Domains: UBA, UCH, zf-UBP

Protein Families: Druggable Genome, Protease

MW: 93.3 kDa

Gene Summary: Ubiquitin (see MIM 191339)-dependent proteolysis is a complex pathway of protein

metabolism implicated in such diverse cellular functions as maintenance of chromatin

structure, receptor function, and degradation of abnormal proteins. A late step of the process

involves disassembly of the polyubiquitin chains on degraded proteins into ubiquitin monomers. USP5 disassembles branched polyubiquitin chains by a sequential exo mechanism, starting at the proximal end of the chain (Wilkinson et al., 1995 [PubMed

7578059]).[supplied by OMIM, Mar 2010]