

Product datasheet for RC215720L4

OriGene Technologies, Inc.

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ZNF451 (NM_001031623) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: ZNF451 (NM_001031623) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: ZNF451

Synonyms: COASTER; dJ417l1.1

Mammalian Cell Puromycin

Selection:

. a. o. . . y c. . .

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

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

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC215720).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001031623

ORF Size: 3183 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 001031623.1</u>, <u>NP 001026794.1</u>

 RefSeq Size:
 5060 bp

 RefSeq ORF:
 3186 bp

 Locus ID:
 26036

 UniProt ID:
 Q9Y4E5

 Cytogenetics:
 6p12.1

Protein Families: Transcription Factors

MW: 121.3 kDa

Gene Summary: E3 SUMO-protein ligase; has a preference for SUMO2 and SUMO3 and facilitates

UBE2I/UBC9-mediated sumoylation of target proteins (PubMed:26524493,

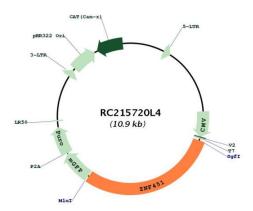
PubMed:26524494). Plays a role in protein SUMO2 modification in response to stress caused by DNA damage and by proteasome inhibitors (in vitro). Required for MCM4 sumoylation (By similarity). Has no activity with SUMO1 (PubMed:26524493). Preferentially transfers an additional SUMO2 chain onto the SUMO2 consensus site 'Lys-11' (PubMed:26524493). Negatively regulates transcriptional activation mediated by the SMAD4 complex in response

to TGF-beta signaling. Inhibits EP300-mediated acetylation of histone H3 at 'Lys-9' (PubMed:24324267). Plays a role in regulating the transcription of AR targets

(PubMed:18656483).[UniProtKB/Swiss-Prot Function]



Product images:



Circular map for RC215720L4