

Product datasheet for RC201785L4

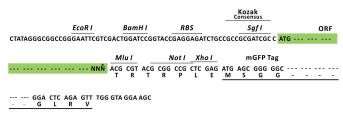
FEN1 (NM_004111) Human Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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

Product Type:	Expression Plasmids
Product Name:	FEN1 (NM_004111) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	FEN1
Synonyms:	FEN-1; MF1; RAD2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC201785).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Miu I GCG ATC GC ATG // NNŇ ACG CGT



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

ACCN: ORF Size: NM_004111 1140 bp



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

SEN1 (NM_004111) Human Tagged Lenti ORF Clone – RC201785L4

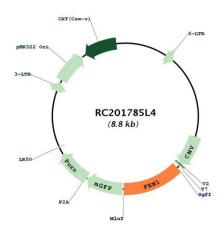
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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 004111.4</u>
RefSeq Size:	2308 bp
RefSeq ORF:	1143 bp
Locus ID:	2237
UniProt ID:	<u>P39748</u>
Cytogenetics:	11q12.2
Domains:	HhH2, XPG_N, XPG_I
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Base excision repair, DNA replication, Non-homologous end-joining
MW:	42.6 kDa

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

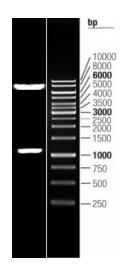
SEN1 (NM_004111) Human Tagged Lenti ORF Clone – RC201785L4

Gene Summary:The protein encoded by this gene removes 5' overhanging flaps in DNA repair and processes
the 5' ends of Okazaki fragments in lagging strand DNA synthesis. Direct physical interaction
between this protein and AP endonuclease 1 during long-patch base excision repair provides
coordinated loading of the proteins onto the substrate, thus passing the substrate from one
enzyme to another. The protein is a member of the XPG/RAD2 endonuclease family and is
one of ten proteins essential for cell-free DNA replication. DNA secondary structure can
inhibit flap processing at certain trinucleotide repeats in a length-dependent manner by
concealing the 5' end of the flap that is necessary for both binding and cleavage by the
protein encoded by this gene. Therefore, secondary structure can deter the protective
function of this protein, leading to site-specific trinucleotide expansions. [provided by RefSeq,
|u| 2008]

Product images:



Circular map for RC201785L4



Double digestion of RC201785L4 using Sgfl and Mlul

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US