

Product datasheet for MR219466L4

II11 (NM_008350) Mouse Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Floddee Type.	LAPI ESSION Flashinds
Product Name:	Il11 (NM_008350) Mouse Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	ll11
Synonyms:	IL-11
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(MR219466).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
-	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I GCG ATC GC ATG // NNN ACG CGT

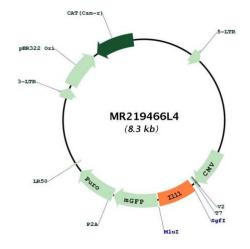
								_	Koza Consei	ak nsus	_			
EcoR I		Bam	нı		RI	35			s	gf I			o	RF
CTATAGGGCGGCCGGGAATTCGTC	GACT	GGA	ccGe	STACC	GAG	GAGA	тстб	ccgc	cGCG	ATCG	C C A	rg	 	
	м	lu I		,	Vot I	xI	no I		m	GFP	Tag			
NNŇ	ACG T	CGT R	ACG T	CGG R	CCG P	СТС	GAG	ATG M	AGC S	GGG G	GGC G	•	 	
GGA CTC AGA GTT TG	G GTA	GGA	AGC											

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



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Plasmid Map:



ACCN:	
ACCN.	NM_008350
ORF Size:	597 bp
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 008350.4, NP 032376.1</u>
RefSeq Size:	1949 bp
RefSeq ORF:	600 bp

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	II11 (NM_008350) Mouse Tagged Lenti ORF Clone – MR219466L4
Locus ID:	16156
UniProt ID:	<u>P47873</u>
Cytogenetics:	7 2.76 cM
Gene Summary:	Cytokine that stimulates the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells and induces megakaryocyte maturation resulting in increased platelet production (PubMed:8913282). Also promotes the proliferation of hepatocytes in response to liver damage (PubMed:22253262). Binding to its receptor formed by IL6ST and either IL11RA1 or IL11RA2 activates a signaling cascade that promotes cell proliferation, also in the context of various cancers (PubMed:10026196, PubMed:23948300). Signaling leads to the activation of intracellular protein kinases and the phosphorylation of STAT3 (PubMed:23948300, PubMed:22253262).[UniProtKB/Swiss-Prot Function]

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