

# Product datasheet for RC205461L2

### ATE1 (NM\_007041) Human Tagged Lenti ORF Clone

#### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids					
Product Name:	ATE1 (NM_007041) Human Tagged Lenti ORF Clone					
Tag:	mGFP					
Symbol:	ATE1					
Mammalian Cell Selection:	None					
Vector:	pLenti-C-mGFP (PS100071)					
E. coli Selection:	Chloramphenicol (34 ug/mL)					
ORF Nucleotide Sequence:	The ORF insert	t of th	is clone	is exact	tly the sam	e as(RC205461).
<b>Restriction Sites:</b>	Sgfl-Mlul					
Cloning Scheme:		Cloning sit	es used for ORF Sh	uttling:		
			<i>Sgf I</i> GCG ATC GC C ATG	ORF // NNŇ	Mlu I ACG CGT	
					Kozak Consensus	
		EcoR I	BamH I	RBS	Sgf I	ORF

 $\begin{array}{c} \text{CTATAGGGCGGCCGGGAATTCGTCGATCGATCGGATCCGGTACCGGAGATCGCCGCGGGCGCGCGGATCGC C ATG \cdots \cdots \cdots \\ \hline Mlu l & Not l & Xho l & \text{mGFP Tag} \\ \hline \textbf{MGFP Tag} & \textbf{MGFP Tag} \\ \hline \textbf{MGFP Tag tag a transformation tag a$ 

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

ACCN: ORF Size: NM\_007041 1554 bp



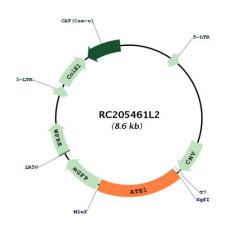
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<b>GRIGENE</b> ATE1 (I	NM_007041) Human Tagged Lenti ORF Clone – RC205461L2
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same 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:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 007041.2</u>
RefSeq Size:	4930 bp
RefSeq ORF:	1557 bp
Locus ID:	11101
UniProt ID:	<u>095260</u>
Cytogenetics:	10q26.13
Domains:	ATE_N, ATE_C
MW:	59 kDa
Gene Summary:	This gene encodes an arginyltransferase, an enzyme that is involved in posttranslational conjugation of arginine to N-terminal aspartate or glutamate residues. Conjugation of arginine to the N-terminal aspartate or glutamate targets proteins for ubiquitin-dependent degradation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]

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## **Product images:**



Circular map for RC205461L2

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