

Product datasheet for RR201042L4

Akt1 (NM_033230) Rat Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids					
Product Name:	Akt1 (NM_033230) Rat Tagged Lenti ORF Clone					
Tag:	mGFP					
Symbol:	Akt1					
Synonyms:	Akt					
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(RR201042).					
Restriction Sites:	Sgfl-Mlul					
Cloning Scheme:						
6	Cloning sites used for ORF Shuttling:					
	Sgf I ORF Mlu I GCG ATC GC ATG// NNÑ ACG CGT					

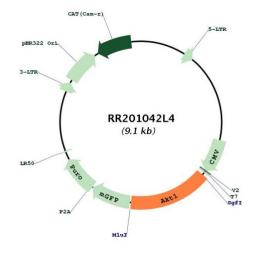
							_	Koza Conse	ak nsus	_			
EcoR I	Ва	mHI		RE	35			S	gf I			0	RF
CTATAGGGCGGCCGGGAATTCGTC	GACTGO	GATCCGG	STACC	GAG	GAGA	тстб	CCGC	cGCG	ATCG	C C A	TG	 	
	Mlu I		Not I _Xho I			no I	mGFP Tag						
NNŇ		GT ACG R T	CGG R	CCG P	СТС	GAG E	ATG M	AGC S	GGG G	GGC G		 	
GGA CTC AGA GTT TGG	G GTA GO	GA AGC											

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



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Plasmid Map:



ACCN:	NM_033230
ORF Size:	1440 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 033230.2, NP 150233.1</u>
RefSeq Size:	1613 bp
RefSeq ORF:	1443 bp

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	Akt1 (NM_033230) Rat Tagged Lenti ORF Clone – RR201042L4
Locus ID:	24185
UniProt ID:	<u>P47196</u>
Cytogenetics:	6q32
Gene Summary:	inhibits JUN kinase activation and mediates inhibition of apoptosis [RGD, Feb 2006]

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