

# Product datasheet for RR210889L4

## Tert (NM\_053423) Rat Tagged Lenti ORF Clone

#### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:       Expression Plasmids         Product Name:       Tert (NM_053423) Rat Tagged Lenti ORF Clone         Tag:       mGFP         Symbol:       Tert         Mammalian Cell       Puromycin         Selection:       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(RR210889).         Sequence:       Sgfl-Mlul         Cloning Scheme:       Cloning sites used for ORF Shuttling:							
Tag:mGFPSymbol:TertMammalian CellPuromycinSelection:PuromycinVector:pLenti-C-mGFP-P2A-Puro (PS100093)E. coli Selection:Chloramphenicol (34 ug/mL)ORF NucleotideThe ORF insert of this clone is exactly the same as(RR210889).Sequence:Sgfl-MlulCloning Scheme: Coning stes used for ORF Shuttling: Ecoli Selection:Sgfl-MlulCloning Scheme:Sgfl-MlulCloning Scheme:Sgfl-MlulConing stes used for ORF Shuttling:Sequence:Sgfl ORF MullCloning Scheme:Sgfl ORF Shuttling:Second Control of Scheme:Sgfl ORF MullCloning Scheme:Sgfl ORF MullSecond Control of Spint MullSgfl ORF Mull	Product Type:	Expression Plasmids					
Symbol:       Tert         Mammalian Cell       Puromycin         Selection:       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(RR210889).         Sequence:       Restriction Sites:         Sgfl-Mlul       Cloning Scheme:	Product Name:	Tert (NM_0534	123) Rat	Tagged L	enti ORF	- Clone	
Mammalian Cell       Puromycin         Selection:       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(RR210889).         Sequence:       Restriction Sites:         Restriction Sites:       Sgfl-Mlul         Cloning Scheme:	Tag:	mGFP					
Selection:       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(RR210889).         Sequence:       Restriction Sites:         Restriction Sites:       Sgfl-Mlul         Cloning Scheme:	Symbol:	Tert					
E. coli Selection: Chloramphenicol (34 ug/mL) ORF Nucleotide The ORF insert of this clone is exactly the same as(RR210889). Sequence: Sgf1-Mlul Cloning Scheme: Coning sites used for ORF Shuttling: Cloning sites used for ORF Shuttling: Sgf1 ORF Mlu1 Sgf1 ORF Mlu1		Puromycin					
ORF Nucleotide       The ORF insert of this clone is exactly the same as(RR210889).         Sequence:       Restriction Sites:       Sgfl-Mlul         Cloning Scheme:       Cloning sites used for ORF Shuttling:         Cloning sites used for ORF Shuttling:         EcoR1       BamH1       RBS       Sgf1       ORF	Vector:	pLenti-C-mGFl	P-P2A-P	uro (PS10	0093)		
Sequence: Restriction Sites: Sgfl-Mlul Cloning Scheme: Cloning sites used for ORF Shuttling: Sgf1 ORF Mlu1 GCG ATC GC ATG// NNN ACG CGT	E. coli Selection:	Chlorampheni	col (34	ug/mL)			
Cloning Scheme: Cloning sites used for ORF Shuttling: Sgf I ORF MIU I GCG ATC GC C ATG// NNN ACG CGT EcoR I BamH RBS Sgf ORF		The ORF inser	t of th	is clone	is exac <sup>.</sup>	tly the sam	e as(RR210889).
Sgf1       ORF       Mlu I         GCG ATC GC       ATG // NNN ACG CGT          EcoR I       BamH I       RBS       Sgf1       ORF	<b>Restriction Sites:</b>	Sgfl-Mlul					
Sgf I       ORF       Mlu I         ···· GCG ATC GC       ATG ···//··· NNN       ACG CGT <u>Kozak</u>	Cloning Scheme:		_				
GCG ATC GC C       ATG//NNN ACG CGT			Cloning sit	es used for ORF Sh	uttling:	]	
EcoR I BamH I RBS Sgf I ORF							
			5 04	D111	200	Consensus	
		CTATAGGGCGGCC					



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

ACCN: ORF Size: NM\_053423 3375 bp



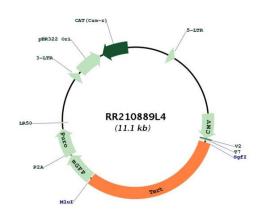
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<b>ORIGENE</b> Tert (	NM_053423) Rat Tagged Lenti ORF Clone – RR210889L4
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene 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 053423.1, NP 445875.1</u>
RefSeq Size:	3378 bp
RefSeq ORF:	3378 bp
Locus ID:	301965
UniProt ID:	<u>Q673L6</u>
Cytogenetics:	1p11
Gene Summary:	<ul> <li>Telomerase is a ribonucleoprotein enzyme essential for the replication of chromosome termini in most eukaryotes. Active in progenitor and cancer cells. Inactive, or very low activity, in normal somatic cells. Catalytic component of the teleromerase holoenzyme complex whose main activity is the elongation of telomeres by acting as a reverse transcriptase that adds simple sequence repeats to chromosome ends by copying a template sequence within the RNA component of the enzyme. Catalyzes the RNA-dependent extension of 3'-chromosomal termini with the 6-nucleotide telomeric repeat unit, 5'-TTAGGG-3'. The catalytic cycle involves primer binding, primer extension and release of product once the template boundary has been reached or nascent product translocation followed by further extension. More active on substrates containing 2 or 3 telomeric repeats. Telomerase activity is</li> </ul>

regulated by a number of factors including telomerase complex-associated proteins, chaperones and polypeptide modifiers. Modulates Wnt signaling. Plays important roles in aging and antiapoptosis (By similarity).[UniProtKB/Swiss-Prot Function]

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### **Product images:**



Circular map for RR210889L4

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