

OriGene Technologies, Inc.

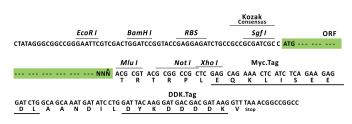
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Product datasheet for RC219514L1

TGF beta Receptor I (TGFBR1) (NM_004612) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TGF beta Receptor I (TGFBR1) (NM_004612) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	TGF beta Receptor I
Synonyms:	AAT5; ACVRLK4; ALK-5; ALK5; ESS1; LDS1; LDS1A; LDS2A; MSSE; SKR4; tbetaR-I; TBR-i; TBRI; TGFR-1
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC219514).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:



ORF

--- GCG ATC GC ATG --- // --- NNN ACG CGT ---

Mlu I

Safl

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

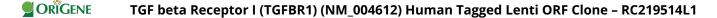
ACCN: ORF Size: NM_004612 1509 bp



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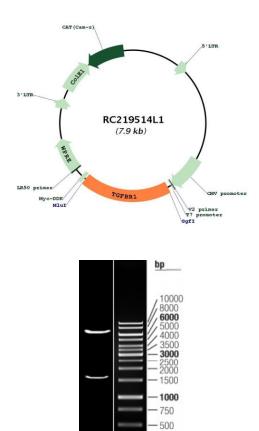
	iF beta Receptor I (TGFBR1) (NM_004612) Human Tagged Lenti ORF Clone – RC219514L1
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not 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 Meth	 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. 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 004612.2</u>
RefSeq Size:	6475 bp
RefSeq ORF:	1512 bp
Locus ID:	7046
UniProt ID:	<u>P36897</u>
Cytogenetics:	9q22.33
Domains:	Activin_recp, pkinase, TyrKc, S_TKc, GS
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Adherens junction, Chronic myeloid leukemia, Colorectal cancer, Cytokine-cytokine receptor interaction, Endocytosis, MAPK signaling pathway, Pancreatic cancer, Pathways in cancer, TGF-beta signaling pathway
MW:	55.96 kDa

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Gene Summary:The protein encoded by this gene forms a heteromeric complex with type II TGF-beta
receptors when bound to TGF-beta, transducing the TGF-beta signal from the cell surface to
the cytoplasm. The encoded protein is a serine/threonine protein kinase. Mutations in this
gene have been associated with Loeys-Dietz aortic aneurysm syndrome (LDAS). Multiple
transcript variants encoding different isoforms have been found for this gene. [provided by
RefSeq, Aug 2008]

Product images:



Circular map for RC219514L1

Double digestion of RC219514L1 using Sgfl and Mlul

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