

### OriGene Technologies, Inc.

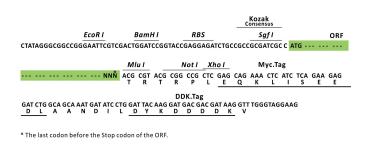
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# Product datasheet for RC214654L3

### Tankyrase 2 (TNKS2) (NM\_025235) Human Tagged Lenti ORF Clone

## **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tankyrase 2 (TNKS2) (NM_025235) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Tankyrase 2
Synonyms:	ARTD6; PARP-5b; PARP-5c; PARP5B; PARP5C; pART6; TANK2; TNKL
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC214654).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I         ORF         Mlu I           GCG ATC GC         ATG// NNÑ         ACG CGT



ACCN: ORF Size: NM\_025235 3498 bp



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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 Metho	<ul> <li>od: 1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ul>
RefSeq:	<u>NM 025235.2, NP 079511.1</u>
RefSeq Size:	6189 bp
RefSeq ORF:	3501 bp
Locus ID:	80351
UniProt ID:	<u>Q9H2K2</u>
Cytogenetics:	10q23.32
Domains:	SAM, ANK
MW:	126.7 kDa

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# Image: CRICENETankyrase 2 (TNKS2) (NM\_025235) Human Tagged Lenti ORF Clone - RC214654L3Gene Summary:Poly-ADP-ribosyltransferase involved in various processes such as Wnt signaling pathway,<br/>telomere length and vesicle trafficking (PubMed:11739745, PubMed:11802774,<br/>PubMed:19759537, PubMed:21478859, PubMed:23622245, PubMed:25043379). Acts as an<br/>activator of the Wnt signaling pathway by mediating poly-ADP-ribosylation of AXIN1 and<br/>AXIN2, 2 key components of the beta-catenin destruction complex: poly-ADP-ribosylated<br/>target proteins are recognized by RNF146, which mediates their ubiquitination and<br/>subsequent degradation (PubMed:19759537, PubMed:21478859). Also mediates poly-ADP-<br/>ribosylation of BLZF1 and CASC3, followed by recruitment of RNF146 and subsequent<br/>ubiquitination (PubMed:21478859). Mediates poly-ADP-ribosylation of TERF1, thereby<br/>contributing to the regulation of telomere length (PubMed:11739745). Stimulates 26S<br/>proteasome activity (PubMed:23622245).[UniProtKB/Swiss-Prot Function]

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