

Product datasheet for **RC214654L1V**

Tankyrase 2 (TNKS2) (NM_025235) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Tankyrase 2 (TNKS2) (NM_025235) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Tankyrase 2
Synonyms:	ARTD6; PARP-5b; PARP-5c; PARP5B; PARP5C; pART6; TANK2; TNKL
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_025235
ORF Size:	3498 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC214654).
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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_025235.2 , NP_079511.1
RefSeq Size:	6189 bp
RefSeq ORF:	3501 bp
Locus ID:	80351
UniProt ID:	Q9H2K2
Cytogenetics:	10q23.32
Domains:	SAM, ANK
MW:	126.7 kDa



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Gene Summary:

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