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WDR5 Circular RNA

Catalog Number:STEM-ORNA-0061

DESCRIPTION	
Product Name	WDR5 Circular RNA
Gene Name	WDR5
Source	In vitro transcribed mRNA was further circularized to make this product as a circular RNA.
Alternative names	WDR5 WD Repeat Domain 5 CFAP89 SWD3 Cilia And Flagella Associated Protein 89 WD Repeat-Containing Protein 5 BMP2-Induced 3-Kb Gene Protein BIG3 SWD3, Set1c WD40 Repeat Protein, Homolog (S. Cerevisiae) SWD3, Set1c WD40 Repeat Protein, Homolog BIG-3 HGNC: 12757 NCBI Entrez Gene: 11091 Ensembl: ENSG00000196363 OMIM®: 609012 UniProtKB/Swiss-Prot: P61964
SPECIFICATIONS	
Cap	
5'-UTR	
ORF	=A58
3'-UTR	
Poly(A) Tail	
Modifications	
Neutral Lipid	1,2-distearoyl-sn-glycero-3-phosphocholine (DSPC)
Cholesterol	Cholesterol
Lonizable Lipid	1,2-dimyristoyl-rac-glycero-3-methoxypolyethylene glycol-2000 (PEG2000-DMG)
PEG-lipid	Heptadecan-9-yl 8-((2-hydroxyethyl)(8-(nonyloxy)−8-oxooctyl)amino)octanoate)(SM-102)
Storage	-80 °C
Buffer	PBS, pH7.62
Cryoprotectant	Trehalose
BACKGROUND	
Gene Accession	
Gene Alias	

	An important paralog of this gene is WDR5B. Contributes to histone modification (PubMed:19131338, 19556245, 19103755, 20018852, 16600877, 16829960). May position the N-terminus of histone H3 for efficient trimethylation at 'Lys-4' (PubMed:16829960). As part of the MLL1/MLL complex it is involved in methylation and dimethylation at 'Lys-4' of histone H3 (PubMed:19556245). H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation (PubMed:18840606). As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues (PubMed:19103755, 20018852). May regulate osteoblasts differentiation (By similarity). In association with RBBP5 and ASH2L, stimulates the histone methyltransferase activities of KMT2A, KMT2B, KMT2C, KMT2D, SETD1A and SETD1B (PubMed:21220120, 22266653). (WDR5_HUMAN,P61964)
Background	WDR5 (WD Repeat Domain 5) is a Protein Coding gene. Diseases associated with WDR5 include Ciliary Dyskinesia, Primary, 33 and Kabuki Syndrome 1. Among its related pathways are RNA Polymerase I Promoter Opening and Gene expression (Transcription). Gene Ontology (GO) annotations related to this gene include histone H3K4 methyltransferase activity and histone H4K8 acetyltransferase activity.