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Product datasheet for SR312007

TRF4 2 (PAPD5) Human siRNA Oligo Duplex (Locus ID 64282)

Product data:

Product Type:	siRNA Oligo Duplexes
Purity:	HPLC purified
Quality Control:	Tested by ESI-MS
Sequences:	Available with shipment
Stability:	One year from date of shipment when stored at -20°C.
# of transfections:	Approximately 330 transfections/2nmol in 24-well plate under optimized conditions (final conc. 10 nM).
Note:	Single siRNA duplex (10nmol) can be ordered.
RefSeq:	<u>NM 001040284, NM 001040285, NM 022447, NM 001365323, NM 001365324</u>
UniProt ID:	<u>Q8NDF8</u>
Synonyms:	PAPD5; TRF4-2; TUT3
Components:	PAPD5 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 64282) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 ml
Summary:	Terminal nucleotidyltransferase that catalyzes preferentially the transfert of ATP and GTP on RNA 3' poly(A) tail creating a heterogeneous 3' poly(A) tail leading to mRNAs stabilization by protecting mRNAs from active deadenylation (PubMed:21788334, PubMed:30026317). Also functions as a catalytic subunit of a TRAMP-like complex which has a poly(A) RNA polymerase activity and is involved in a post-transcriptional quality control mechanism. Polyadenylation with short oligo(A) tails is required for the degradative activity of the exosome on several of its nuclear RNA substrates. Doesn't need a cofactor for polyadenylation activity (in vitro) (PubMed:21788334, PubMed:21855801). Required for cytoplasmic polyadenylation of mRNAs involved in carbohydrate metabolism, including the glucose transporter SLC2A1/GLUT1 (PubMed:28383716). Plays a role in replication-dependent histone mRNA degradation, probably through terminal uridylation of mature histone mRNAs. May play a role in sister chromatid cohesion (PubMed:18172165). Mediates 3' adenylation of the microRNA MIR21 followed by its 3'-to-5' trimming by the exoribonuclease PARN leading to degradation (PubMed:25049417). Mediates 3' adenylation of H/ACA box snoRNAs (small nucleolar RNAs) followed by its 3'-to-5' trimming by the exoribonuclease PARN which enhances snoRNA stability and maturation (PubMed:22442037).[UniProtKB/Swiss-Prot Function]



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CRIGENETRF4 2 (PAPD5) Human siRNA Oligo Duplex (Locus ID 64282) - SR312007Performance
Guaranteed:OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will
provide at least 70% or more knockdown of the target mRNA when used at 10 nM
concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control
duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HPRT
positive control (cat# SR30003) provides 90% knockdown efficiency.For non-conforming siRNA, requests for replacement product must be made within ninety
(90) days from the date of delivery of the siRNA kit. To arrange for a free replacement with
newly designed duplexes, please contact Technical Services at techsupport@origene.com.
Please provide your data indicating the transfection efficiency and measurement of gene
expression knockdown compared to the scrambled siRNA control (quantitative RT-PCR data

required).

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