

Product datasheet for **SR304739**

TCF4 Human siRNA Oligo Duplex (Locus ID 6925)

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:	NM_001083962 , NM_001243226 , NM_001243227 , NM_001243228 , NM_001243230 , NM_001243231 , NM_001243232 , NM_001243233 , NM_001243234 , NM_001243235 , NM_001243236 , NM_003199 , NM_001306207 , NM_001306208 , NM_001330604 , NM_001330605 , NM_001348211 , NM_001348212 , NM_001348213 , NM_001348214 , NM_001348215 , NM_001348216 , NM_001348217 , NM_001348218 , NM_001348219 , NM_001348220 , NM_001369567 , NM_001369571 , NM_001369574 , NM_001369577 , NM_001369579 , NM_001369580 , NM_001369581 , NM_001369585 , NM_001369586 , NM_001369568 , NM_001369569 , NM_001369570 , NM_001369572 , NM_001369573 , NM_001369575 , NM_001369576 , NM_001369578 , NM_001369582 , NM_001369583 , NM_001369584
UniProt ID:	P15884
Synonyms:	bHLHb19; CDG2T; E2-2; FECD3; ITF-2; ITF2; PTHS; SEF-2; SEF2; SEF2-1; SEF2-1A; SEF2-1B; SEF2-1D; TCF-4
Components:	TCF4 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 6925) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml



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Summary:

This gene encodes transcription factor 4, a basic helix-loop-helix transcription factor. The encoded protein recognizes an Ephrussi-box ('E-box') binding site ('CANNTG') - a motif first identified in immunoglobulin enhancers. This gene is broadly expressed, and may play an important role in nervous system development. Defects in this gene are a cause of Pitt-Hopkins syndrome. In addition, an intronic CTG repeat normally numbering 10-37 repeat units can expand to >50 repeat units and cause Fuchs endothelial corneal dystrophy. Multiple alternatively spliced transcript variants that encode different proteins have been described. [provided by RefSeq, Jul 2016]

Performance 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).