

## Product datasheet for **SR324951**

### FTO Human siRNA Oligo Duplex (Locus ID 79068)

#### 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:	<a href="#">NM_001080432</a> , <a href="#">NM_001363905</a> , <a href="#">NM_001363988</a> , <a href="#">NM_001363891</a> , <a href="#">NM_001363894</a> , <a href="#">NM_001363896</a> , <a href="#">NM_001363897</a> , <a href="#">NM_001363898</a> , <a href="#">NM_001363899</a> , <a href="#">NM_001363900</a> , <a href="#">NM_001363901</a> , <a href="#">NM_001363903</a> , <a href="#">NR_156761</a>
UniProt ID:	<a href="#">Q9C0B1</a>
Synonyms:	ALKBH9; BMIQ14; GDFD
Components:	FTO (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 79068) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 ml
Summary:	This gene is a nuclear protein of the AlkB related non-haem iron and 2-oxoglutarate-dependent oxygenase superfamily but the exact physiological function of this gene is not known. Other non-heme iron enzymes function to reverse alkylated DNA and RNA damage by oxidative demethylation. Studies in mice and humans indicate a role in nervous and cardiovascular systems and a strong association with body mass index, obesity risk, and type 2 diabetes. [provided by RefSeq, Jul 2011]



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**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](mailto: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).