

## Product datasheet for **SR306540**

### **TBC1D5 Human siRNA Oligo Duplex (Locus ID 9779)**

#### **Product data:**

<b>Product Type:</b>	siRNA Oligo Duplexes
<b>Purity:</b>	HPLC purified
<b>Quality Control:</b>	Tested by ESI-MS
<b>Sequences:</b>	Available with shipment
<b>Stability:</b>	One year from date of shipment when stored at -20°C.
<b># of transfections:</b>	Approximately 330 transfections/2nmol in 24-well plate under optimized conditions (final conc. 10 nM).
<b>Note:</b>	Single siRNA duplex (10nmol) can be ordered.
<b>RefSeq:</b>	<a href="#">NM_001134380</a> , <a href="#">NM_001134381</a> , <a href="#">NM_014744</a> , <a href="#">NM_001349073</a> , <a href="#">NM_001349074</a> , <a href="#">NM_001349075</a> , <a href="#">NM_001349076</a> , <a href="#">NM_001349077</a> , <a href="#">NM_001349078</a> , <a href="#">NM_001349079</a> , <a href="#">NM_001349080</a> , <a href="#">NM_001349081</a> , <a href="#">NM_001349082</a> , <a href="#">NM_001349083</a> , <a href="#">NM_001349084</a> , <a href="#">NM_001349085</a> , <a href="#">NM_001349086</a> , <a href="#">NM_001349087</a> , <a href="#">NM_001349088</a> , <a href="#">NM_001349089</a> , <a href="#">NM_001349090</a> , <a href="#">NM_001349091</a>
<b>UniProt ID:</b>	<a href="#">Q92609</a>
<b>Synonyms:</b>	KIAA0210
<b>Components:</b>	TBC1D5 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 9779) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml
<b>Summary:</b>	May act as a GTPase-activating protein (GAP) for Rab family protein(s). May act as a GAP for RAB7A. Can displace RAB7A and retromer CSC subcomplex from the endosomal membrane to the cytosol; at least retromer displacement seems to require its catalytic activity (PubMed:19531583, PubMed:20923837). Required for retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN); the function seems to require its catalytic activity. Involved in regulation of autophagy (PubMed:22354992). May act as a molecular switch between endosomal and autophagosomal transport and is involved in reprogramming vesicle trafficking upon autophagy induction. Involved in the trafficking of ATG9A upon activation of autophagy. May regulate the recruitment of ATG9A-AP2-containing vesicles to autophagic membranes (PubMed:24603492).[UniProtKB/Swiss-Prot Function]


[View online »](#)

**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).