

Product datasheet for **SR321543**

ABCD4 Human siRNA Oligo Duplex (Locus ID 5826)

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_005050</u> , <u>NM_020323</u> , <u>NM_020324</u> , <u>NM_020325</u> , <u>NM_020326</u> , <u>NR_003256</u> , <u>NM_001353591</u> , <u>NM_001353592</u> , <u>NM_001353593</u> , <u>NM_001353594</u> , <u>NM_001353595</u> , <u>NM_001353596</u> , <u>NM_001353597</u> , <u>NM_001353598</u> , <u>NM_001353599</u> , <u>NM_001353600</u> , <u>NM_001353601</u> , <u>NM_001353602</u> , <u>NM_001353603</u> , <u>NM_001353604</u> , <u>NM_001353605</u> , <u>NM_001353606</u> , <u>NM_001353607</u> , <u>NM_001353608</u> , <u>NM_001353609</u> , <u>NM_001353610</u> , <u>NR_148466</u> , <u>NR_148467</u> , <u>NR_148468</u> , <u>NR_148469</u> , <u>NR_148470</u> , <u>NR_148471</u> , <u>NR_148472</u> , <u>NR_148473</u> , <u>NR_148474</u>
UniProt ID:	<u>O14678</u>
Synonyms:	ABC41; EST352188; MAHCJ; P70R; P79R; PMP69; PXMP1L
Components:	ABCD4 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 5826) 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:

The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the ALD subfamily, which is involved in peroxisomal import of fatty acids and/or fatty acyl-CoAs in the organelle. All known peroxisomal ABC transporters are half transporters which require a partner half transporter molecule to form a functional homodimeric or heterodimeric transporter. The function of this peroxisomal membrane protein is unknown. However, it is speculated that it may function as a heterodimer for another peroxisomal ABC transporter and, therefore, may modify the adrenoleukodystrophy phenotype. It may also play a role in the process of peroxisome biogenesis. Alternative splicing results in several protein-coding and non-protein-coding variants. [provided by RefSeq, Jul 2017]

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).