

## Product datasheet for **SR321291**

### **P Glycoprotein (ABCB1) Human siRNA Oligo Duplex (Locus ID 5243)**

#### **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_000927</a> , <a href="#">NM_001348944</a> , <a href="#">NM_001348945</a> , <a href="#">NM_001348946</a>  |
| <b>UniProt ID:</b>         | <a href="#">P08183</a>  |
| <b>Synonyms:</b>           | ABC20; CD243; CLCS; GP170; MDR1; p-170; P-GP; PGY1  |
| <b>Components:</b>         | ABCB1 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 5243)<br>Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol<br>Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml  |
| <b>Summary:</b>            | <p>The membrane-associated 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 MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. The protein encoded by this gene is an ATP-dependent drug efflux pump for xenobiotic compounds with broad substrate specificity. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anticancer drugs. This protein also functions as a transporter in the blood-brain barrier. Mutations in this gene are associated with colchicine resistance and Inflammatory bowel disease 13. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Feb 2017]</p> |



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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).