

Product datasheet for SR423219

Brca1 Mouse siRNA Oligo Duplex (Locus ID 12189)

Product data:

OriGene Technologies, Inc.

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siRNA Oligo Duplexes
HPLC purified
Tested by ESI-MS
Available with shipment
One year from date of shipment when stored at -20°C.
Approximately 330 transfections/2nmol in 24-well plate under optimized conditions (final conc. 10 nM).
Single siRNA duplex (10nmol) can be ordered.
<u>NM 009764</u>
<u>P48754</u>
Brca1 (Mouse) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 12189) 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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GRIGENE Brca1 Mouse siRNA Oligo Duplex (Locus ID 12189) – SR423219

E3 ubiquitin-protein ligase that specifically mediates the formation of 'Lys-6'-linked Summary: polyubiquitin chains and plays a central role in DNA repair by facilitating cellular responses to DNA damage. It is unclear whether it also mediates the formation of other types of polyubiquitin chains. The E3 ubiquitin-protein ligase activity is required for its tumor suppressor function. The BRCA1-BARD1 heterodimer coordinates a diverse range of cellular pathways such as DNA damage repair, ubiguitination and transcriptional regulation to maintain genomic stability. Regulates centrosomal microtubule nucleation. Required for normal cell cycle progression from G2 to mitosis. Required for appropriate cell cycle arrests after ionizing irradiation in both the S-phase and the G2 phase of the cell cycle. Involved in transcriptional regulation of P21 in response to DNA damage. Required for FANCD2 targeting to sites of DNA damage. May function as a transcriptional regulator. Contributes to homologous recombination repair (HRR) via its direct interaction with PALB2, fine-tunes recombinational repair partly through its modulatory role in the PALB2-dependent loading of BRCA2-RAD51 repair machinery at DNA breaks. Component of the BRCA1-RBBP8 complex which regulates CHEK1 activation and controls cell cycle G2/M checkpoints on DNA damage via BRCA1-mediated ubiquitination of RBBP8. Acts as a transcriptional activator (By similarity). Inhibits lipid synthesis by binding to inactive phosphorylated ACACA and preventing its dephosphorylation.[UniProtKB/Swiss-Prot Function] Performance OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will **Guaranteed:** 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).

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