

Product datasheet for SR502209

Esrrb Rat siRNA Oligo Duplex (Locus ID 299210)

Product data:

OriGene Technologies, Inc.

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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 001008516</u>
UniProt ID:	<u>P11475</u>
Synonyms:	Err2; Errb
Components:	Esrrb (Rat) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 299210) 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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SR502209 Esrrb Rat siRNA Oligo Duplex (Locus ID 299210) – SR502209

Transcription factor that binds a canonical ESRRB recognition (ERRE) sequence 5'TCAAGGTCA-Summary: 3' localized on promoter and enhancer of targets genes regulating their expression or their transcription activity (By similarity). Plays a role, in a LIF independent manner, in maintainance of self-renewal and pluripotency of embryonic and trophoblast stem cells through different signaling pathways including FGF signaling pathway and Wnt signaling pathways. Upon FGF signaling pathway activation, interacts with KDM1A by directly binding to enhancer site of ELF5 and EOMES and activating their transcription leading to self-renewal of trophoblast stem cells. Also regulates expression of multiple rod-specific genes and is required for survival of this cell type (By similarity). Plays a role as transcription factor activator of GATA6, NR0B1, POU5F1 and PERM1 (By similarity). Plays a role as transcription factor repressor of NFE2L2 transcriptional activity and ESR1 transcriptional activity (By similarity). During mitosis remains bound to a subset of interphase target genes, including pluripotency regulators, through the canonical ESRRB recognition (ERRE) sequence, leading to their transcriptional activation in early G1 phase. Can coassemble on structured DNA elements with other transcription factors like SOX2, POU5F1, KDM1A and NCOA3 to trigger ESRRB-dependent gene activation. This mechanism, in the case of SOX2 corecruitment prevents the embryonic stem cells (ESCs) to epiblast stem cells (EpiSC) transition through positive regulation of NR0B1 that inhibits the EpiSC transcriptional program. Also plays a role inner ear development by controlling expression of ion channels and transporters and in early placentation (By similarity).[UniProtKB/Swiss-Prot Function]

PerformanceOriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit willGuaranteed: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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