

Product datasheet for **SR413656**

Pou4f2 Mouse siRNA Oligo Duplex (Locus ID 18997)

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:	NM_138944
UniProt ID:	Q63934
Synonyms:	Brn-3.2; Brn-3b; Brn3b; mBrn3-3R; Pou4f-rs1
Components:	Pou4f2 (Mouse) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 18997) 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:

Tissue-specific DNA-binding transcription factor involved in the development and differentiation of target cells (PubMed:7904822, PubMed:8995448, PubMed:8972215, PubMed:10357904, PubMed:10414983, PubMed:11163266, PubMed:17668438, PubMed:25775587). Functions either as activator or repressor by modulating the rate of target gene transcription through RNA polymerase II enzyme in a promoter-dependent manner (PubMed:7904822, PubMed:7935408, PubMed:8065921, PubMed:7852360, PubMed:7797498, PubMed:8662774, PubMed:9694219, PubMed:10526314, PubMed:15733064, PubMed:17145718, PubMed:18368538). Binds to the consensus octamer motif 5'-AT[A/T]A[T/A]T[A/T]A-3' of promoter of target genes (PubMed:7904822, PubMed:8290353, PubMed:9111308, PubMed:10414983, PubMed:16152597, PubMed:17668438, PubMed:24643061). Plays a fundamental role in the gene regulatory network essential for retinal ganglion cell (RGC) differentiation (PubMed:8632990, PubMed:10357904, PubMed:25775587). Binds to an octamer site to form a ternary complex with ISL1; cooperates positively with ISL1 and ISL2 to potentiate transcriptional activation of RGC target genes being involved in RGC fate commitment in the developing retina and RGC axon formation and pathfinding (PubMed:8995448, PubMed:9261145, PubMed:8972215, PubMed:10357904, PubMed:11163266, PubMed:24643061, PubMed:25775587). Inhibits DLX1 and DLX2 transcriptional activities preventing DLX1- and DLX2-mediated ability to promote amacrine cell fate specification (PubMed:21875655). In cooperation with TP53 potentiates transcriptional activation of BAX promoter activity increasing neuronal cell apoptosis (PubMed:17145718). Negatively regulates BAX promoter activity in the absence of TP53 (PubMed:17145718). Acts as a transcriptional coactivator via its interaction with the transcription factor ESR1 by enhancing its effect on estrogen response element (ERE)-containing promoter (PubMed:9448000). Antagonizes the transcriptional stimulatory activity of POU4F1 by preventing its binding to an octamer motif (PubMed:7935408, PubMed:8065921, PubMed:8537352, PubMed:7852360, PubMed:8662774). Involved in TNFSF11-mediated terminal osteoclast differentiation (PubMed:17668438).[UniProtKB/Swiss-Prot Function]

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).