

# Product datasheet for SR411790

## Atf4 Mouse siRNA Oligo Duplex (Locus ID 11911)

### **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 001287180, NM 009716</u>
UniProt ID:	<u>Q06507</u>
Synonyms:	Atf-4; C/ATF; CREB2; TAXREB67
Components:	Atf4 (Mouse) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 11911) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 ml
Summary:	Transcriptional activator. Binds the cAMP response element (CRE) (consensus: 5'- GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Binds to asymmetric CRE's as a heterodimer and to palindromic CRE's as a homodimer. Cooperates with FOXO1 in osteoblasts to regulate glucose homeostasis through suppression of beta-cell production and decrease in insulin production. Regulates the induction of DDIT3/CHOP and asparagine synthetase (ASNS) in response to ER stress. In concert with DDIT3/CHOP, activates the transcription of TRIB3 and promotes ER stress-induced neuronal apoptosis by regulating the transcriptional induction of BBC3/PUMA. Activates transcription of SIRT4. Regulates the circadian expression of the core clock component PER2 and the serotonin transporter SLC6A4. Binds in a circadian time-dependent manner to the cAMP response elements (CRE) in the SLC6A4 and PER2 promoters and periodically activates the transcription of these genes. [UniProtKB/Swiss-Prot Function]



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# **CRICENE**Atf4 Mouse siRNA Oligo Duplex (Locus ID 11911) - SR411790Performance<br/>Guaranteed:OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will<br/>provide at least 70% or more knockdown of the target mRNA when used at 10 nM<br/>concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control<br/>duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HPRT<br/>positive control (cat# SR30003) provides 90% knockdown efficiency.For non-conforming siRNA, requests for replacement product must be made within ninety<br/>(90) days from the date of delivery of the siRNA kit. To arrange for a free replacement with<br/>newly designed duplexes, please contact Technical Services at techsupport@origene.com.<br/>Please provide your data indicating the transfection efficiency and measurement of gene

required).

expression knockdown compared to the scrambled siRNA control (quantitative RT-PCR data

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