

# Produktinformation



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Diagnostik & molekulare Diagnostik



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# Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

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- Expressversand

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# PRC siRNA (m): sc-152443



The Power to Question

#### **BACKGROUND**

PGC-1-related coactivator (PRC), also known as peroxisome proliferator-activated receptor  $\gamma$  coactivator-related protein 1, is a 1,664 amino acid nuclear protein. PRC is involved in the coactivation of nuclear genes involved in mitochondrial biogenesis and cell growth. PRC acts as a transcriptional coactivator of CREB-1 and NRF-1 by interacting directly with CREB-1 and NRF-1 genes. Up-regulated by serum, PRC is present at high levels in skeletal muscle and heart and at moderate levels in kidney, spleen, thymus, intestine, placenta, lung, brain and colon. PRC has one RNA recognition motif (RRM) domain, which can bind directly to RNA. PRC is exists as two named isoforms produced by alternative splicing.

### **REFERENCES**

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## **CHROMOSOMAL LOCATION**

Genetic locus: Pprc1 (mouse) mapping to 19 C3.

### **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

#### **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

#### **PRODUCT**

PRC siRNA (m) is a pool of 3 target-specific 19-25 nt siRNAs designed to knock down gene expression. Each vial contains 3.3 nmol of lyophilized siRNA, sufficient for a 10  $\mu$ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see PRC shRNA Plasmid (m): sc-152443-SH and PRC shRNA (m) Lentiviral Particles: sc-152443-V as alternate gene silencing products.

For independent verification of PRC (m) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-152443A, sc-152443B and sc-152443C.

#### STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20° C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20° C, avoid contact with RNAses and repeated freeze thaw cycles.

Resuspend lyophilized siRNA duplex in 330  $\mu$ l of the RNAse-free water provided. Resuspension of the siRNA duplex in 330  $\mu$ l of RNAse-free water makes a 10  $\mu$ M solution in a 10  $\mu$ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

#### **APPLICATIONS**

 $\mbox{PRC}$  siRNA (m) is recommended for the inhibition of PRC expression in mouse cells.

### **SUPPORT REAGENTS**

For optimal siRNA transfection efficiency, Santa Cruz Biotechnology's siRNA Transfection Reagent: sc-29528 (0.3 ml), siRNA Transfection Medium: sc-36868 (20 ml) and siRNA Dilution Buffer: sc-29527 (1.5 ml) are recommended. Control siRNAs or Fluorescein Conjugated Control siRNAs are available as 10 µM in 66 µl. Each contain a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA. Fluorescein Conjugated Control siRNAs include: sc-36869, sc-44239, sc-44240 and sc-44241. Control siRNAs include: sc-37007, sc-44230, sc-44231, sc-44232, sc-44233, sc-44234, sc-44235, sc-44236, sc-44237 and sc-44238.

### **RT-PCR REAGENTS**

Semi-quantitative RT-PCR may be performed to monitor PRC gene expression knockdown using RT-PCR Primer: PRC (m)-PR: sc-152443-PR (20  $\mu$ I). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

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