

⁹
 Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 47720

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Sp1 contributes to overexpression of stanniocalcin 2 through regulation of promoter activity in colon adenocarcinoma

Li J *et al.* Sp1 is required for STC2 expression

Ji-Bin Li, Zhe-Xian Liu, Rui Zhang, Si-Ping Ma, ¹² Tao Lin, Yan-Xi Li, Shi-Hua Yang, Wan-Chuan Zhang, Yong-Peng Wang

Abstract

BACKGROUND

Aberrant expression of stanniocalcin 2 (STC2) is implicated in colon adenocarcinoma (COAD). Previous study identified that STC2 functions as a tumor promoter to drive

Match Overview

1	Crossref 20 words Xia Lin, Jian Liu, Shu Fang Hu, Xun Hu. " Increased expression of TMED2 is an unfavorable prognos	<1%
2	Internet 19 words	<1%
3	Internet 18 words crawled on 28-Dec-2018 pubs.rsc.org	<1%
4	Internet 18 words crawled on 22-Sep-2017 www.impactjournals.com	<1%
5	Internet 17 words crawled on 19-Oct-2018 nutrition.highwire.org	<1%
6	Internet 16 words crawled on 19-Mar-2018 www.jbc.org	<1%
7	Crossref 16 words Denys A. Khapersky, Mohamed M. Emara, Benjamin P. Johnston, Paul Anderson, Todd F. Hatchette, Craig McCorm...	<1%
8	Internet 15 words crawled on 04-Feb-2019 link.springer.com	<1%
9	Internet 15 words crawled on 05-Oct-2017 real.mtak.hu	<1%

27,500 Results

Any time ▾

SP1 Sp1 transcription factor [(human)]

<https://www.ncbi.nlm.nih.gov/gene/6667>

Sp1 transcription factor upregulates the spliced variant of human IRF-3 gene **promoter**. study characterized for the first time the human NME5 **promoter** which is controlled by **Sp1 transcription factor** in pancreatic cancer. **Sp1, NF-Y** and **FOXO transcription factors** are involved in the regulation of **LKB1 transcription**.

Transcription Factor Sp1 Promotes the Expression of ...

www.ncbi.nlm.nih.gov > ... > *Int J Mol Sci* > v.17(1); 2016 Jan

The **promoter activity** of rat ROCK1 gene is reduced by Sp1, whereas it is enhanced by Sp6 in dental epithelial cells . To investigate the transcriptional **regulation** of the ROCK1 gene, we isolated the **promoter** of the porcine ROCK1 gene, analyzed its upstream regulatory elements and revealed that **transcription factor Sp1** directly binds to the core ...

Cited by: 3

Author: Ruirui Zhang, Xiaoting Feng, Mengsi Zhan...

Publish Year: 2016

Regulation of KLF5 involves the Sp1 transcription factor ...

<https://www.sciencedirect.com/science/article/pii/S0378111904000411>

Electrophoretic mobility shift assays (EMSA) revealed that the Sp1 site binds Sp1 protein in nucleic extracts of different cell lines. In addition, **overexpression** of Sp1 protein transactivates KLF5 **promoter activity**. These findings suggest that Sp1 is a key **transcription factor** in KLF5's dynamic transcriptional regulation.

Cited by: 50

Author: Ceshi Chen, Yingfa Zhou, Zhongmei Zhou...

Publish Year: 2004

Transcription Factor Sp1 Is Involved in Expressional ...

<https://www.hindawi.com/journals/bmri/2011/636497> ▾

However, mithramycin treatment, which is known as blocking transcriptional **activity** of Sp1 family **transcription factors through** binding to G/C-rich region [12, 13], significantly suppressed the **promoter activity** in the cells expressed by ectopic Sp1, but not by Sp1 DN (Figures 2(a) and 2(b)).

Cited by: 5

Author: Sun-Ku Chung, Joo-Young Kim, Joong-Ye...

找到约 4,310 条结果 (用时 0.41 秒)

Google 学术: Sp1 contributes to overexpression of stanniocalcin 2 through regulation of promoter activity in colon adenocarcinoma

... [regulation by post-transcriptional modification—role of ...](#) - Chu - 被引用次数: 72

... in gene expression [contribute to cancer prevention by ...](#) - Baek - 被引用次数: 92

[Stanniocalcin 2 expression is regulated by hormone ...](#) - Raulic - 被引用次数: 41

Stanniocalcin1 (STC1) Inhibits Cell Proliferation and Invasion of ...

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone...>  翻译此页

作者: F Guo - 2013 - 被引用次数: 27 - 相关文章

2013年1月29日 - We also found that STC1 [overexpression](#) inhibited cell proliferation and ... to STC1 [promoter](#) and activated the expression of STC1 in cervical [cancer](#) cells. ... Figure 2. Down-[regulation](#) of STC1 promoted CaSki cells growth and invasion. Accompanying [with](#) enhanced [activity](#) of PARP and Caspase-3, the ...

Hypoxia-induced overexpression of stanniocalcin-1 is associated with ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4337255/>  翻译此页

作者: X Ma - 2015 - 被引用次数: 28 - 相关文章

2015年2月12日 - [Overexpression](#) of STC1 in Caki-2 enhanced cell growth and ... lung, liver, adrenal gland, kidney, ovary, prostate, [colon](#), bone and spleen [6-11]. ... responses to hypoxia in human [cancer](#) cells [through the regulation](#) #Contributed equally. ... Sp1 is a transcription repressor to [stanniocalcin-1](#) expression in ...

STC1 stanniocalcin 1 [(human)] - NCBI

<https://www.ncbi.nlm.nih.gov/gene/6781>  翻译此页

2019年4月15日 - The protein may play a role in the [regulation](#) of renal and [intestinal](#) ... [Overexpression](#) of human [stanniocalcin 1](#) in mice produces high ... Ssecretory STC1 enhances metastatic potential of hepatocellular [carcinomas](#) [via](#) JNK signaling. 1 and 2 (STC1, STC2) participate in inhibition of proteolytic [activity](#) of ...

Sp1 Is a Transcription Repressor to Stanniocalcin-1 Expression in TSA ...

https://www.researchgate.net/.../51000652_Sp1_Is_a_Transcription_Repress... - 翻译此页

The transcription factor Sp1 binds to various [promoters](#) [with](#) high affinity, and acts as ... A Trichostatin A (TSA)/Sp1-mediated mechanism for the [regulation](#) of SALL2 STC1 and NF- κ B p65 (Rel A) is

找到约 4,310 条结果 (用时 0.41 秒)

Google 学术: Sp1 contributes to overexpression of stanniocalcin 2 through regulation of promoter activity in colon adenocarcinoma

... [regulation by post-transcriptional modification—role of ...](#) - Chu - 被引用次数: 72

... in gene expression [contribute to cancer prevention by ...](#) - Baek - 被引用次数: 92

[Stanniocalcin 2 expression is regulated by hormone ...](#) - Raulic - 被引用次数: 41

Stanniocalcin1 (STC1) Inhibits Cell Proliferation and Invasion of ...

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone...>  翻译此页

作者: F Guo - 2013 - 被引用次数: 27 - 相关文章

2013年1月29日 - We also found that STC1 [overexpression](#) inhibited cell proliferation and ... to STC1 [promoter](#) and activated the expression of STC1 in cervical [cancer](#) cells. ... Figure 2. Down-[regulation](#) of STC1 promoted CaSki cells growth and invasion. Accompanying [with](#) enhanced [activity](#) of PARP and Caspase-3, the ...

Hypoxia-induced overexpression of stanniocalcin-1 is associated with ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4337255/>  翻译此页

作者: X Ma - 2015 - 被引用次数: 28 - 相关文章

2015年2月12日 - [Overexpression](#) of STC1 in Caki-2 enhanced cell growth and ... lung, liver, adrenal gland, kidney, ovary, prostate, [colon](#), bone and spleen [6-11]. ... responses to hypoxia in human [cancer](#) cells [through the regulation](#) #Contributed equally. ... Sp1 is a transcription repressor to [stanniocalcin-1](#) expression in ...

STC1 stanniocalcin 1 [(human)] - NCBI

<https://www.ncbi.nlm.nih.gov/gene/6781>  翻译此页

2019年4月15日 - The protein may play a role in the [regulation](#) of renal and [intestinal](#) ... [Overexpression](#) of human [stanniocalcin 1](#) in mice produces high ... Ssecretory STC1 enhances metastatic potential of hepatocellular [carcinomas](#) [via](#) JNK signaling. 1 and 2 (STC1, STC2) participate in inhibition of proteolytic [activity](#) of ...

Sp1 Is a Transcription Repressor to Stanniocalcin-1 Expression in TSA ...

https://www.researchgate.net/.../51000652_Sp1_Is_a_Transcription_Repress... - 翻译此页

The transcription factor Sp1 binds to various [promoters](#) [with](#) high affinity, and acts as ... A Trichostatin A (TSA)/Sp1-mediated mechanism for the [regulation](#) of SALL2 STC1 and NF-κB p65 (Rel A) is