CRTC1 (CREB regulated transcription coactivator 1)

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Identity
Other names: KIAA0616; FLJ14027; WAMTP1; MECT1; TORC1
HGNC (Hugo): CRTC1
Location: 19p13.11

DNA/RNA
Description
Spans 99 kb; contains at least 14 exons.

Protein

Localisation
Predicted nuclear localization.

Function
Unknown.

Implicated in
Mucoepidermoid carcinoma with t(11;19)(q21-22;p13)

Disease
Most common type of malignant salivary gland tumor; second most frequent lung tumor of bronchial gland origin.

Hybrid/Mutated Gene
MECT1- MAML2; exon 1 of MECT1 fused to exons 2-5 of MAML2.

Abnormal Protein
MECT1-MAML2; in the fusion protein the first 171 aa including the basic domain of MAML2 are replaced by 42 aa of MECT1; there are no sequence similarities in the N-terminal domains of MAML2 and MECT1; the fusion protein activates transcription of the Notch target gene HES1 independently of both Notch ligand and CSL.

References


This article should be referenced as such: