

## C-BOX MUTATIONS

	-379		-327
	↓		↓
<b>WT</b>	ATTATTCT <u>ACCCACT</u> ATTGTTGGAAAAAAAAAACAGTGCAA <u>ACTCACCCACTC</u>		
<b>C1M</b>	ATTATTCTA <u>GAATTC</u> ATTGTTGGAAAAAAAAAACAGTGCAA <u>ACTCACCCACTC</u>		
<b>C2M</b>	ATTATTCT <u>ACCCACT</u> ATTGTTGGAAAAAAAA--CA <u>ATGCAA</u> ACTCA <u>AGTACTC</u>		
<b>C12M</b>	ATTATTCTA <u>GAATTC</u> ATTGTTGGAAAAAAAA--CA <u>ATGCAA</u> ACTCA <u>AGTACTC</u>		
<b>A55M</b>	ATTATTCTA <u>GCAACT</u> ATT <u>CTT</u> GGAAAAAAAAAACAGTGCAA <u>ACTCACCCACTC</u>		

## TAG-BOX MUTATIONS

	-474		-422
	↓		↓
<b>WT</b>	TAATGAAAATAATT <u>TAAAAATGGATAAACTAAAAATGGA</u> ATTTTTTTTTTTTTTTT		
<b>T72M</b>	TAATGAAAATAATT <u>TAAAAATCGATAAACTAAAAATGCA</u> ATTTTTTTTTTTTTTTT		
<b>TTM</b>	TAATG <u>TCGACA</u> ATT <u>TAAAAATGGATAAACTAAAAATGGA</u> A <u>GC</u> TTTTTTTTTTTTTTT		
<b>TXM</b>	TAATG <u>TCGACA</u> ATT <u>TAAAAATGGATAAACTGTCGAGT</u> <u>TATAGC</u> TTTTTTTTTTTTTTT		
<b>XXM</b>	TAATG <u>TCGACA</u> ATT <u>TATGGGACTATAAACTGTCGAGT</u> <u>TATAGC</u> TTTTTTTTTTTTTTT		

#### **Figure 4. Promoter constructs for site-directed mutagenesis**

Wild type (WT) and mutant (C1M, C2M, C12M, A55M, T72M, TTM, TXM and XXM) full length promoter constructs were cloned in frame with a luciferase reporter gene in the vector pVTDH. Mutations and (or) deletions generated in the various constructs are illustrated here. Wild type C-box and TAG-box sequences are underlined. Mutant sequences are shown in bold. Deletions are represented by (-).