

Cloning and sequencing of a zinc finger cDNA expressed in mouse testis

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From a mouse testis cDNA library we have isolated a cDNA clone coding for a zinc finger protein of the C2H2 type (1, 2). The polypeptide encoded by this clone has outside the zinc finger region an N-terminal portion of 73 amino acids of which 25% are basic. There are 12 zinc fingers in the open reading frame with 9 out of the 11 linkers having the sequence Thr-Gly-Glu-Lys-Pro, indicating it is a member of the Kruppel family. At the C-terminus there are 9 amino acids after the last finger of

which 6 are acidic and none basic. The open reading frame is bounded by stop codons at nucleotide 12 (upstream from the initiator methionine) and at nucleotide 1253.

REFERENCES

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1	T G C A T C T G A T G T G A A C A A A G A T G A A A T T C C A A C T A G A A A G A A T G C G A C A A G T T A C C C A A C A A T A A G T T G T C T G A T A A A G G T G A C A A A A A	90
	M K F Q L E R N A T S Y P T I S C L I K V T K T	
91	C C A A A C C A G C A A A A A T G T G A G A A A G T A T G C C C G T C A T A G T G C A T C C C A T A C C A A G G A A G A C A A A A T T C A G C A C C G G G A A G A A C G G A A A T	180
	K P A K N V R K Y A R H S A S H T K E D K I Q T G E K R K S	
181	C A C A T G C C G T A C T C C A T C T A A A C C T G A A A A G C C C C A G G T T C T G G G A A A C C T T A T G A A T G T A A C C A C T G T G G G A A G G T C C T C A G C C A T A	270
	H C R T P S K P E K A P G S G K P Y E C N H C G K V L S H K	
271	A A C A G G G A C T C C T T G A C C A T C A A A G A A C T C A C A C T G G G G A G A A C C A T A T G A A T G T A A T G T A A T G T G G G A T A G C T T C A G C C A G A A G T C C C	360
	Q G L L D H Q R T H T G E K P Y E C N E C G I A F S Q K S H	
361	A C C T T G T T C T A C A T C A G A G A A C T C A C A C T G G G G A A A A C C A T A C G A G T G T G A A C A G T G T G C C A A A G C A C A C C G G A C A T A A A C T G C C C T C A	450
	L V L H Q R T H T G E K P Y E C E Q C G K A H G H K H A L T	
451	C T G A C C A T C T A A G A A T C C A T A C T G G A G A A A G C C C T A C A A A T G T A A T G T A A T G T G G C A A A C G T T A G A C A C G C T C A A A C C T T A T G C A A C	540
	D H L K I H T G E K P Y R C N E C G K T F R H S S N L M Q H	
541	A C C T A A G A T C T C A C A C G G G T G A G A A G C C G T A T G A A T G T A A G G A A T G T G G C C A A T C C T T A G A T A T A A T C A T C T C T T A C T G A A C A T G T G A	630
	L R S H T G E K P Y E C E C K E C G K S F R Y N S S L T E H V R	
631	G A A C A C A C A C A G G T G A A A T A C C A T A C G A A T G T A A C G A A T G T G G C A A A G C T T C A A G T A T G G C T C A T C C C T G A C T A A A C A T A T G C G G A T T C	720
	T H T G E I P Y E C N E C G K A F K Y G S S L T K H M R I H	
721	A T A C A G G G G A A A C C A T T G A A T G T A A T G T A A T G T G G G A A A C C T T A G C A A A A G T C A C A C T G A C T T A T A C A T C A A A G A A C T C A T A C A A	810
	T G E K P F E C N E C G K T F S K K S H L V I H Q R T H T K	
811	A G G A G A A C C T T A A A A T G T G A T G A G T G T G G G A A A G C C T T G G A C A T A G C T C A T C T C T A C C T A C C A T A T G A G A A C T C A T A C A G G T G A C T	900
	E K P Y K C D E C G K A F G H S S S L T Y H M R T H T G D C	
901	G C C C C T T G A A T G T A A T C A A T G T G G T A A G G C T T T A A C A G A T T G A A G G C T T A C C C A A C C A C A G A G A G T T C A C A C A G G G G A A A C C T	990
	P F E C N Q C G K A F K Q I E G L T Q H Q R V H T G E K P Y	
991	A T G A G T G T G T G A A T G T G G G A A G C C T T A G T C A G A A G T C A C A C C T C A T C G T A C A C C A G A G A A C T C A T A C A G G G G A G A A C C C T T G A A T	1080
	E C V E C G K A F S Q K S H L I V H Q R T H T G E K P F E C	
1081	G T T A T G A G T G T G G A A A G C C T T C A A T G C A A A A T C A C A A C T G T T A T T C A T C A G A G A T C C C A C T G G G A G A A A C C C T A T G A A T G T A T T G	1170
	Y E C G K A F N A K S Q L V I H Q R S H T G E K P Y E C I E	
1171	A A T G T G G T A A A G C C G T C A A G C A A A A T G C C T C T C T A C C C A A C A T A T G A A A A T T C A C T C A G A A G A C A A T C T G A G G A A G A A G A T T A T G T A	1260
	C G K A V K Q N A S L T K H M K I H S E E Q S E E E D *	
1261	G G A A C C T G A C G A A C T G A C T G G T T G G T A T T A C C T T A A G G A A G A T G T C A A T T G A T G T G T G A G A A T A T C T T T T T T A G G A A A T C	1350
	A T T C C T G G T G A T A C T G A G A G A A T T G A A T T G G A T C T T A C A T A A G A T G G T A A T A A A T T A C C T G A T C C C A A A A A A A A A A	
1351	A T T C C T G G T G A T A C T G A G A G A A T T G A A T T G G A T C T T A C A T A A G A T G G T A A T A A A T T A C C T G A T C C C A A A A A A A A A	1434