Nucleotide sequence of a parathyroid hormone-related peptide expressed by the 10 day chicken embryo

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A fragment from the coding sequence of a human parathyroid hormone-related peptide (PTH-RP) cDNA (1-3) was used to isolate from a lambda gt-11 cDNA library prepared from 10 day old chicken embryo poly A+ RNA (Clontech Laboratories Inc.) a 1411 base pair cDNA pCLP1 (bases 16-1436) which encodes the chicken homolog. In the sequence below, the underlined nucleotides (bases 1-25) were determined from chicken PTH-RP genomic DNA isolated from a chicken lambda EMBL phage library (Clontech). The open reading frame of 176 amino acids is verified by the presence of a 5' in-frame termination codon (bases 1-3). In analogy to the human (1-3) and rat (4, 5) PTH-RP molecules, the arrow marks the predicted site of cleavage of the putative 37 amino acid preproleader sequence from the 139 residue PTHRP. Unique to the chicken PTH-RP are two potential sites for N-linked glycosylation (an (o) is found below the middle residue of the triplet).

REFERENCES

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