

CORRECTION

Cloning of Rat Aorta Lysyl Oxidase cDNA: Complete Codons and Predicted Amino Acid Sequence[†], by Philip C. Trackman,* Ann Marie Pratt, Andrzej Wolanski, Shioh-Shih Tang, Gwynneth D. Offner, Robert F. Troxler, and Herbert M. Kagan*, Volume 29, Number 20, May 22, 1990, pages 4863-4870.

We report a correction of our cDNA sequence for rat aorta lysyl oxidase. The revised sequence contains six additional nucleotides in the predicted precursor molecule resulting in two localized frame shifts and corresponding changes in the predicted amino acid sequence (Figure 1). These errors were due to band compressions in GC-rich regions which were either only partially resolved by the use of 7-deaza-dGTP and T7 DNA polymerase (nucleotide 223; nucleotides 409-410) or not apparent when Klenow DNA polymerase was used (nucleotide 483; nucleotides 559-560). The compressions have now been resolved by using T7 DNA polymerase and reaction mixtures containing 7-deaza-dITP (nucleotides 409-410) or reaction mixtures containing 7-deaza-dGTP (nucleotides 223, 483, 559-560) [Barr, P. J., Thayer, R. M., Laybourn, P., Najarian, R. C., Seela, F., & Toland, D. R. (1986) *BioTechniques* 4, 428-432; Mills, D. R., & Kramer, F. R. (1979) *Proc. Natl. Acad. Sci. U.S.A.* 76, 2232-2235] and new sequence-

specific oligodeoxynucleotide primers. The sequence-specific sense primers used were CAGTACCAGCCTCAGCGA and AGCTCAGTAATCTGAGGCC, and the sequence-specific antisense primer was GGCCTCAGATTACTGAGCT. The revised cDNA sequence results in the predicted molecular weight of 46 573 (411 amino acids), compared to 45 979 (409 amino acids) previously reported, and now contains two predicted N-glycosylation sites instead of one (Asn 138 and 91 in Figure 1). The second of two predicted Arg-Arg-Arg sequences postulated as potential proteolytic processing sites is now predicted to be Arg-Arg (residues 134 and 135, Figure 1), and the previously predicted Cys-Cys-Cys sequence is now Leu-Leu-Leu (residues 86-88, Figure 1). It is of considerable interest that the predicted amino acid sequence of rat aorta lysyl oxidase is 96.4% homologous to that of mouse rrg cDNA, the increased expression of which accompanies reversion of NIH 3T3 cells transformed by LRT-c-H-ras [Contente, S., Kenyon, K., Rimoldi, D., & Friedman, R. M. (1990) *Science* 249, 796-798; Kenyon, K., Contente, S., Trackman, P. C., Tang, J., Kagan, H. M., & Friedman, R. M. (1991) *Science* (in press)].

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ATG CGT TTC GCC TGG ACC GTG CTC TTT CTG GGA CAG CTG CAG TTC TGT CCC CTT CTC CGC TGC GCC CCG CAG GCC CCG CGC GAG CCT CCC 90
1 Met Arg Phe Ala Trp Thr Val Leu Phe Leu Gly Gln Leu Gln Phe Cys Pro Leu Leu Arg Cys Ala Pro Gln Ala Pro Arg Glu Pro Pro

GCC GCC CCC GGT GCC TGG CGC CAG ACA ATC CAA TGG GAG AAC AAC GGG CAG GTG TTC AGT CTG TTG AGC CTG GGG GCG CAG TAC CAG CCT 180
31 Ala Ala Pro Gly Ala Trp Arg Gln Thr Ile Gln Trp Glu Asn Asn Gly Gln Val Phe Ser Leu Leu Ser Leu Gly Ala Gln Tyr Gln Pro

CAG CGA CGC CGC GAC TCC AGC GCC ACT GCC CCG AGA GCC GAC GGC AAC GCT GCA GCA CAG CCA CGC ACG CCC ATT CTG CTG CTG CGT GAC 270
61 Gln Arg Arg Arg Asp Ser Ser Ala Thr Ala Pro Arg Ala Asp Gly Asn Ala Ala Ala Gln Pro Arg Thr Pro Ile Leu Leu Leu Arg Asp

AAC CGC ACT GCC TCT GCC CGT GCG AGG ACT CCA AGC CCA TCT GGG GTC GCC GCG GGT CGT CCC CGG CCC GCA GCC CGC CAC TGG TTC CAA 360
91 Asn Arg Thr Ala Ser Ala Arg Ala Arg Thr Pro Ser Pro Ser Gly Val Ala Ala Gly Arg Pro Arg Pro Ala Ala Arg His Trp Phe Gln

GTT GGT TTC TCG CCG TCG GGG GCC GGC GAT GGA GCC TCA AGG CGC GCA GCG AAC CCG ACT GCG TCG CCA CAG CCT CCG CAG CTC AGT AAT 450
121 Val Gly Phe Ser Pro Ser Gly Ala Gly Asp Gly Ala Ser Arg Arg Ala Ala Asn Arg Thr Ala Ser Pro Gln Pro Pro Gln Leu Ser Asn

CTG AGG CCA CCC AGC CAC GTA GAT CGC ATG GTG GGC GAC GAC CCC TAC AAT CCC TAC AAG TAC TCC GAC GAC AAC CCC TAT TAT AAC TAC 540
151 Leu Arg Pro Pro Ser His Val Asp Arg Met Val Gly Asp Asp Pro Tyr Asn Pro Tyr Lys Tyr Ser Asp Asp Asn Pro Tyr Tyr Asn Tyr

TAT GAC ACT TAT GAG AGA CCC CGG TCC GGG AGC AGG CAC CGA CCT GGA TAT GGC ACC GGT TAC TTC CAG TAC GGT CTC CCG GAC CTG GTA 630
181 Tyr Asp Thr Tyr Glu Arg Pro Arg Ser Gly Ser Arg His Arg Pro Gly Tyr Gly Thr Gly Tyr Phe Gln Tyr Gly Leu Pro Asp Leu Val

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FIGURE 1: Corrected partial cDNA sequence and deduced amino acid sequence of rat aorta lysyl oxidase. Only nucleotides 1-630 are shown. Underlined amino acids differ from the previously published sequence; plus signs indicate nucleotides not included in the original cDNA sequence.