

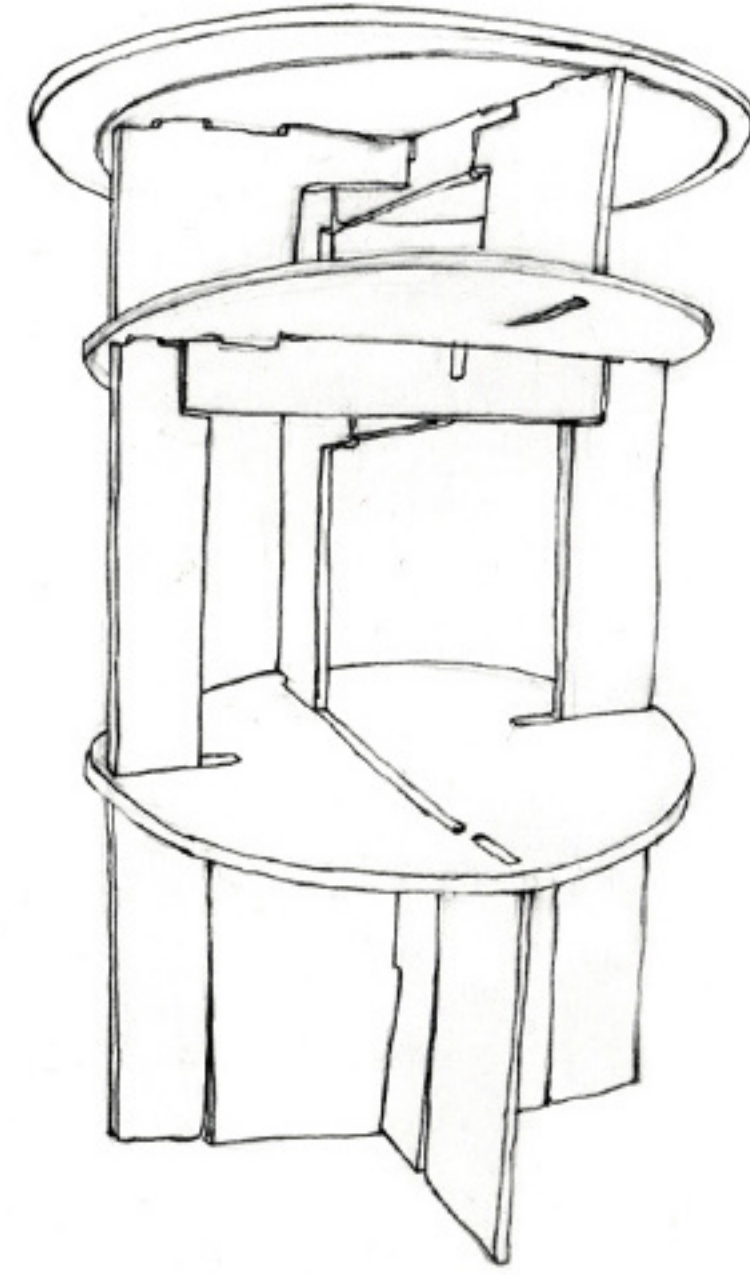
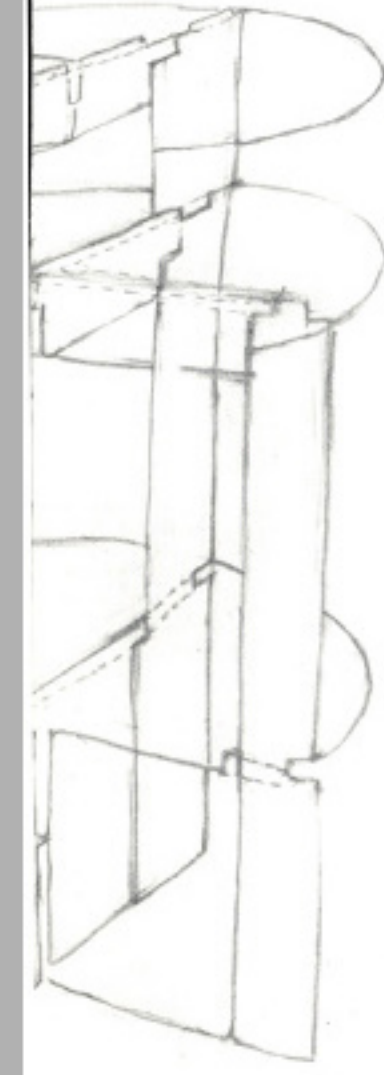
INTRON IMAGE PROJECT
Christina Mackie

IIP

INTRON IMAGE PROJECT
Christina Mackie

IIP





INTRON IMAGE PROJECT

Christina Mackie

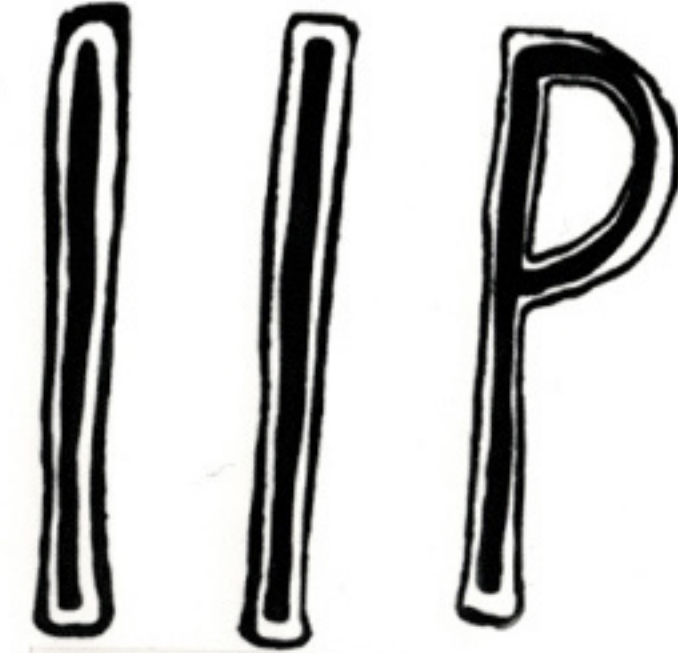




image reduced to minimum pixels on 64x64 grid

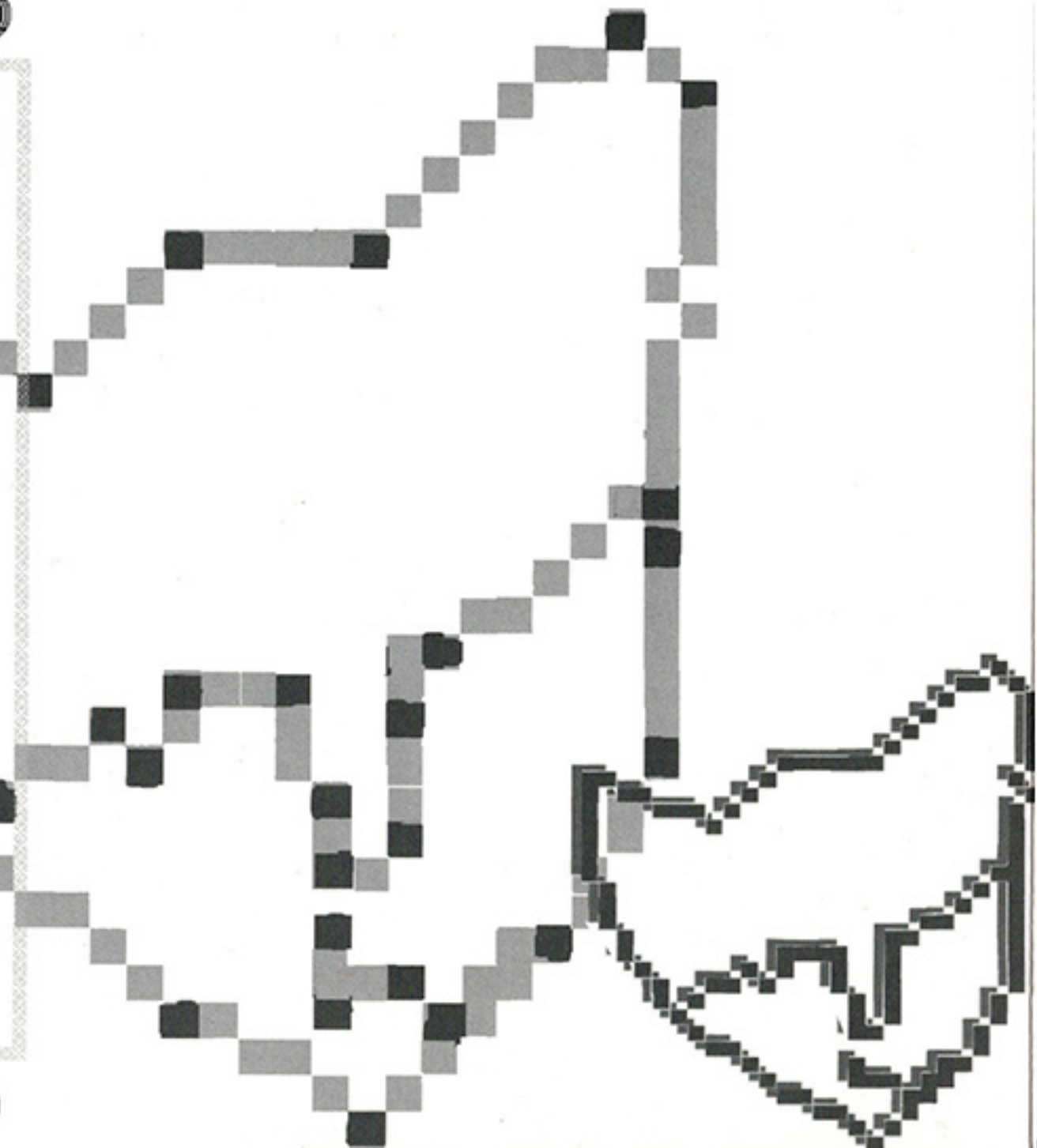


Image encoding: each pair of numbers represents a position on a 64x64 grid

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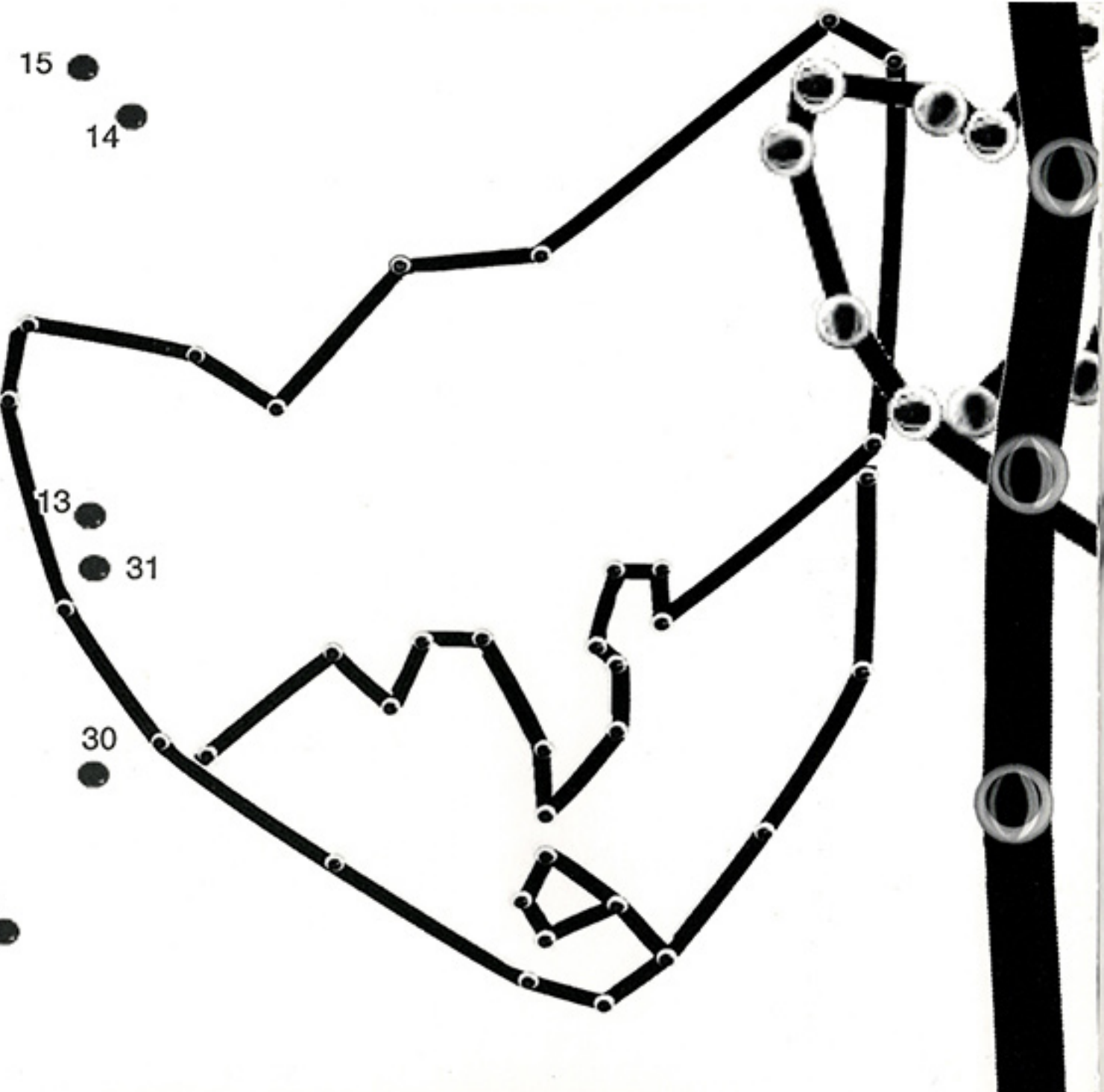
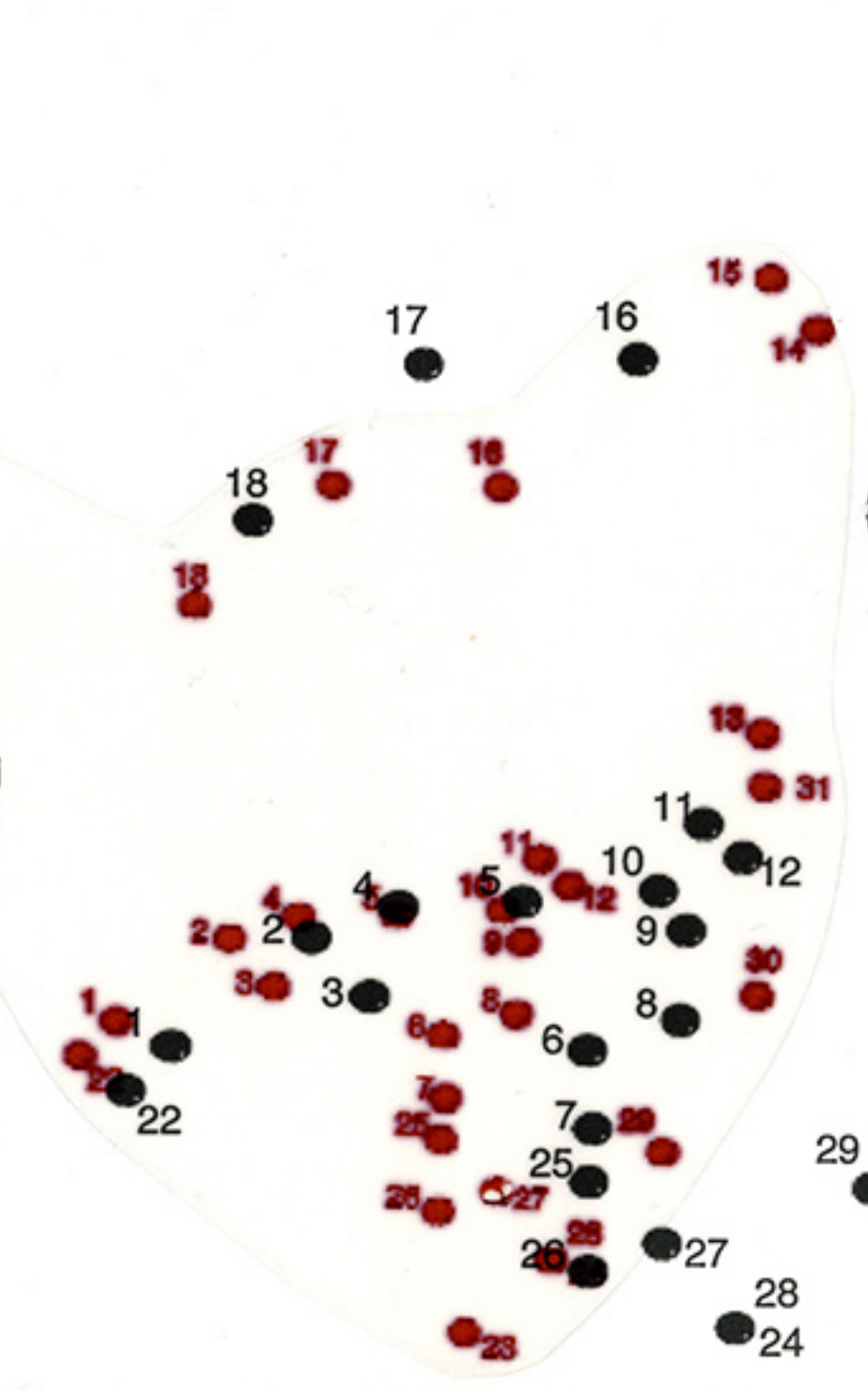




Image encoding transposed to base 4

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331 301 333 301 333 302 203 020 202 100 201 112 301 001 021 011 000 030 011 000 132 001
220 210 222 210 222 213 312 131 313

C+G (0+1) BOND WITH EACH OTHER, SO
DO A+T(2+3) THIS CROSS BONDING
CAUSES THE DOUBLE HELIX



100 130 100 111 121 100 111 023 110

312 131 300 203 232 203 222 221 220 220 213 221 211 213 220 210 230 210 222 211220 220 220 300 213 302 211 302 203 230 202 220 133 220 132 223 121 223 122 221 120 221 121 213132 213 120 221 111 230 102 300 101020 101 031 103 103 120 120 103 132 033 213 033 230 013 302

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Image mapped onto genetic sequence

ATA GCC AGT GGA AGC GCT ACA GGT GTA GGT GAT GCC
 GAT CTC GGT GCG GGT GGG GAC GGA GGT GAT GGG
 GAT GGG GAC CAG ACA CAC TAA CAT TTC GAT ATT ACT

AAA CTACAGGT

ATT AAA
 AGA ATT
 AAA TGC
 AAT ATT
 ATG TAA
 AAC TGT
 GAA TCG
 GCG AGT

CAG GTC CCG GAC CCC GGC CCT GAT CAG GTC CGA GAT
 CGC GAC CGA GGG CCA CTT CAA CAA GGC CAT GTA

AC
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ATC
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G C C G G A A T T G A

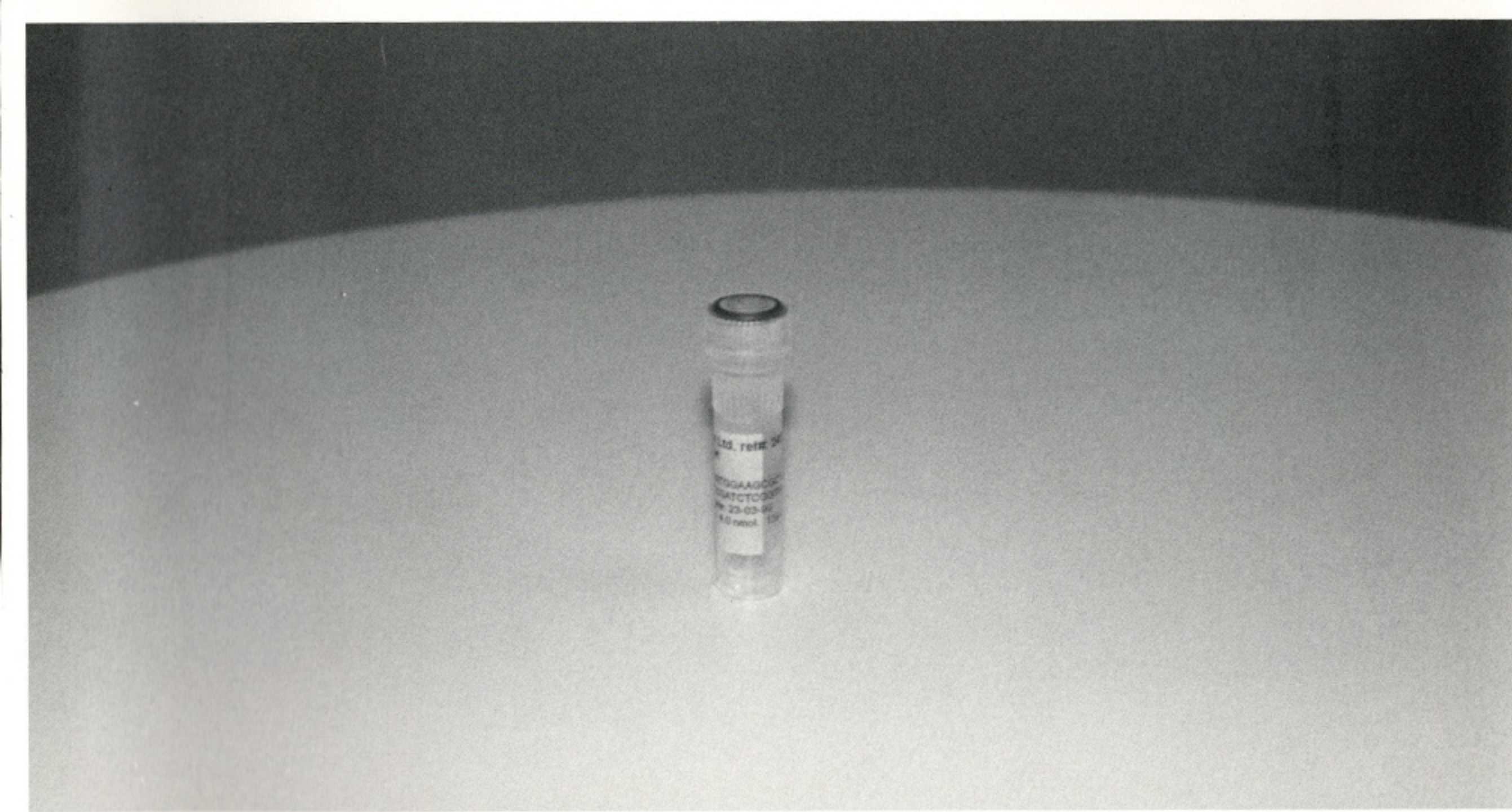
AACAAAGGGAAT

AAT

the G(uanine) and C(ytosine) unravel if you start the DNA with them so 1 became A(denine) instead of G and 0 became T(hymine) instead of C then it was made starting ATA....

CCGT

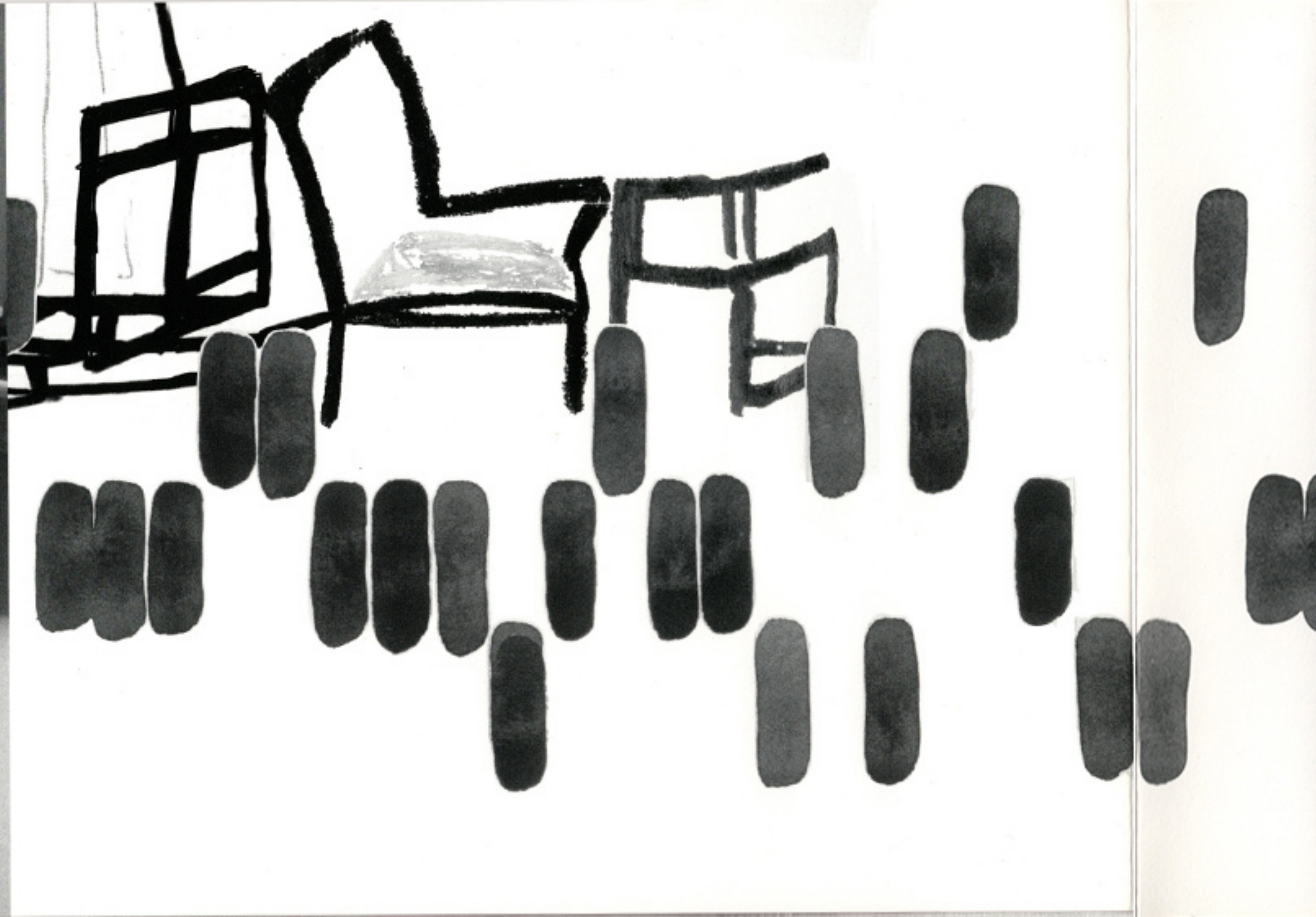
TGTA



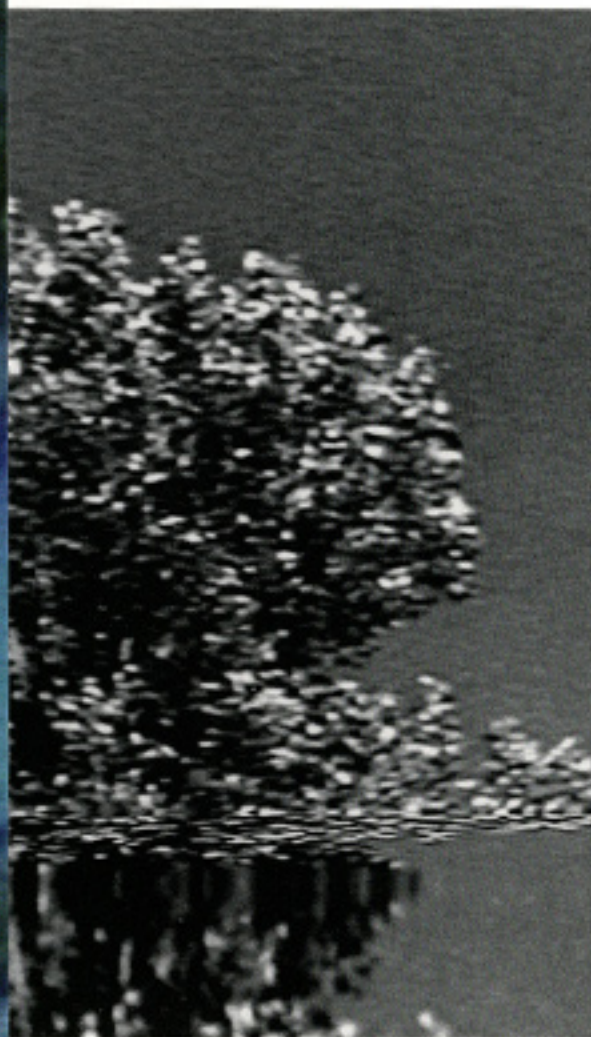
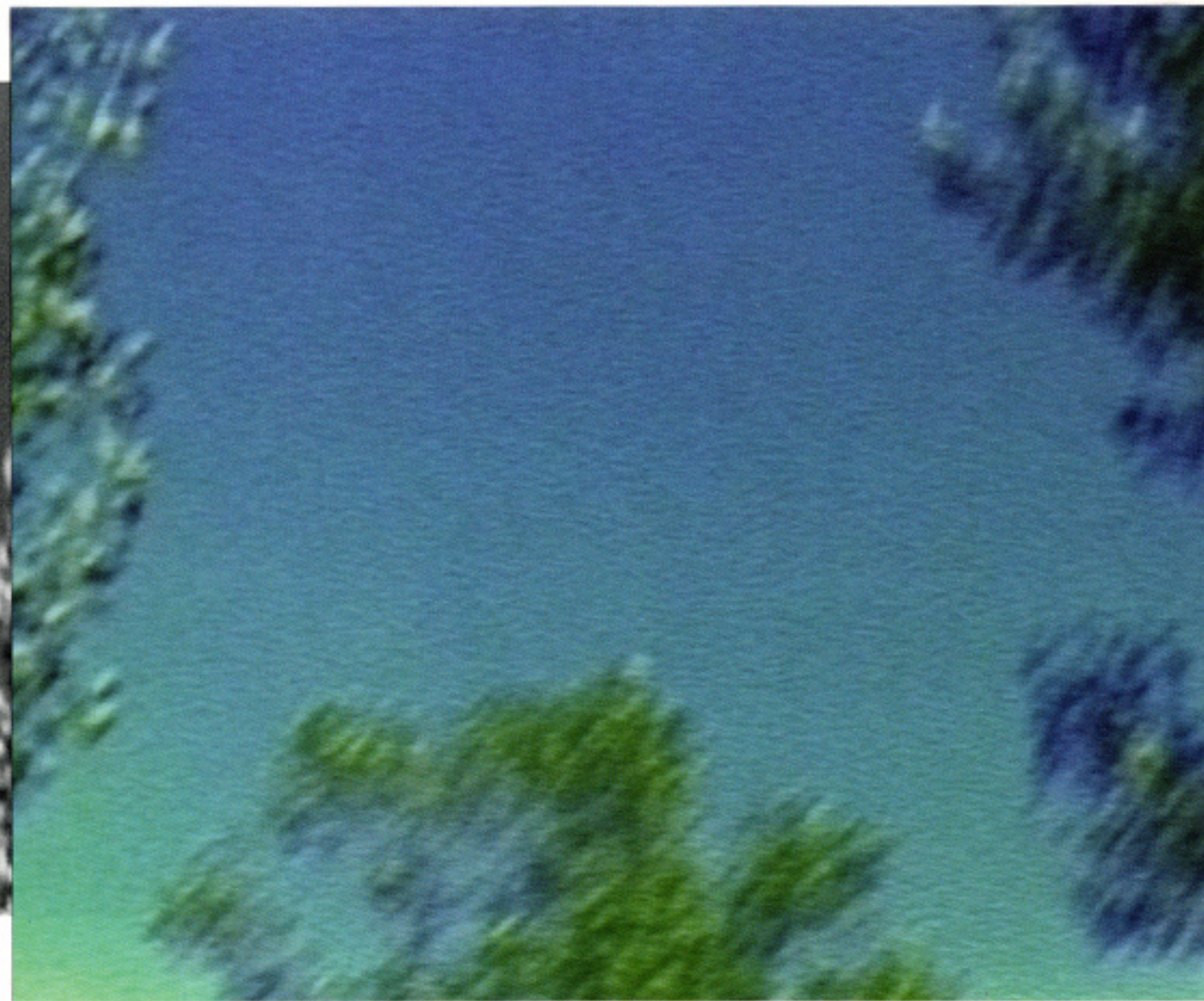
| Cruachem Ref. | Customer Ref. | Sequence | Length | MW | Tm | E ₂₆₀ | Yield | | |
|---------------|---------------|--|--------|--------|------|------------------|------------------|-------|-------|
| | | | | | | | A ₂₆₀ | µg | nmole |
| 2458 | A | dATAGCCAGTGGGAAGCGCTACAGGTGTAGGTGATG CCGATCTCGGTGCGGGTGGGGACGGAGGTGATGGG GATGGGGACCAGACACACTAACATTTCCATTAC TATTAA (HPLC) | 111 | 34,655 | 81.7 | 1,267.7 | 5.1 | 139.4 | 4.0 |
| 9 | B | dXAGAATTAAATGCAATATTATGTAAAACGTGAAT CGGCGAGTCAGGTCCCAGGACCCCGGCATGATCAGG TCCGAGATCGCACCGAGGGGCACTTCACCAAGGCC ATGTA (HPLC) | 112 | 34,655 | 81.7 | 1,251.7 | 5.1 | 140.0 | 4.1 |

the gene for
photosynthesis B across

8 poplar
varieties







trees planted out

