

C. elegans Whole Genome Oligo Array Information

General Information

Arrays printed on Corning Epoxy slides

Slides have been post-processed and are ready to hyb.

Common spot diameter – 90-110 μ

Spot to spot distance – 200 μ

- 22614 features
- 22490 oligo features
- 124 control features
- 12 Rows
- 4 Columns
- 48 Subarrays

Feature Concentration Information

A. thaliana Features printed at 50 uM

Controls (Positive and Negative) printed at 40 uM

Poly(dA)₄₀₋₆₀ oligonucleotide printed at 0.01 μ g/ μ L

Salmon sperm DNA printed at 0.1 μ g/ μ L

Human COT-1 DNA[®] printed at 0.1 μ g/ μ L

Control Feature Information

Control Oligonucleotides

<u>Number</u>	<u><i>Arabidopsis thaliana</i></u> <u>Positive Controls (70-mer)</u>	<u>Gene Identification</u>
10	Oligonucleotide 1 (Cab)	<i>A. thaliana</i> photosystem I chlorophyll a/b-binding protein (GenBank [®] database accession # X56062)
10	Oligonucleotide 2 (RCA)	<i>A. thaliana</i> RUBISCO activase (GenBank database accession #X14212)
10	Oligonucleotide 3 (rbcl)	<i>A. thaliana</i> ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (GenBank database accession#U91966)
10	Oligonucleotide 4 (LTP4)	<i>A. thaliana</i> lipid transfer protein 4 (GenBank database accession #AF159801)
10	Oligonucleotide 5 (LTP6)	<i>A. thaliana</i> lipid transfer protein 6 (GenBank database accession #AF159803)
10	Oligonucleotide 6 (XCP2)	<i>A. thaliana</i> papain-type cysteine endopeptidase (GenBank database accession #AF191028)
10	Oligonucleotide 7 (RCP1)	<i>A. thaliana</i> root cap 1 (GenBank database accession #AF168390)
10	Oligonucleotide 8 (NAC1)	<i>A. thaliana</i> NAC1 (GenBank database accession #AF198054)

10	Oligonucleotide 9 (TIM)	<i>A. thaliana</i> triosphosphate isomerase (GenBank database accession #AF247559)
10	Oligonucleotide 10 (PRKase)	<i>A. thaliana</i> PRKase gene for ribulose-5-phosphate kinase (GenBank database accession #X58149)

Negative Controls

10	<i>E. coli</i> – B1444 oligonucleotide
8	<i>E. coli</i> – rRNA oligonucleotide
2	Poly(dA) _{40–60} oligonucleotide
2	Salmon sperm DNA
1	Human COT-1 DNA®
1	3X SSC/0.75 M Betaine

124 – Total Control Features