

CyteSeer™ Plasma Membrane Measurements

- 1 imageset
- 2 region
- 3 cell ID
- 4 width
- 5 height
- 6 Area nuclear mask
- 7 Area membrane mask
- 8 Area cytoplasm mask
- 9 Area cell mask
- 10 TII nuclear image nuclear mask
- 11 API nuclear image nuclear mask
- 12 MPI nuclear image nuclear mask
- 13 SPI nuclear image nuclear mask
- 14 TII nuclear image membrane mask
- 15 API nuclear image membrane mask
- 16 MPI nuclear image membrane mask
- 17 SPI nuclear image membrane mask
- 18 TII nuclear image cytoplasm mask
- 19 API nuclear image cytoplasm mask
- 20 MPI nuclear image cytoplasm mask
- 21 SPI nuclear image cytoplasm mask
- 22 TII nuclear image cell mask
- 23 API nuclear image cell mask
- 24 MPI nuclear image cell mask
- 25 SPI nuclear image cell mask
- 26 TII membrane image nuclear mask
- 27 API membrane image nuclear mask
- 28 MPI membrane image nuclear mask
- 29 SPI membrane image nuclear mask
- 30 TII membrane image membrane mask
- 31 API membrane image membrane mask
- 32 MPI membrane image membrane mask
- 33 SPI membrane image membrane mask
- 34 TII membrane image cytoplasm mask
- 35 API membrane image cytoplasm mask
- 36 MPI membrane image cytoplasm mask
- 37 SPI membrane image cytoplasm mask
- 38 TII membrane image cell mask
- 39 API membrane image cell mask
- 40 MPI membrane image cell mask
- 41 SPI membrane image cell mask
- 42 Diff: MPI membrane image membrane-cytoplasm mask
- 43 Ratio: MPI membrane image membrane/cytoplasm mask
- 44 PCC nuclear-membrane nuclear mask
- 45 K1 nuclear-membrane nuclear mask
- 46 K2 nuclear-membrane nuclear mask
- 47 MOC nuclear-membrane nuclear mask
- 48 M1 nuclear-membrane nuclear mask
- 49 M2 nuclear-membrane nuclear mask
- 50 PCC nuclear-membrane membrane mask
- 51 K1 nuclear-membrane membrane mask
- 52 K2 nuclear-membrane membrane mask
- 53 MOC nuclear-membrane membrane mask
- 54 M1 nuclear-membrane membrane mask
- 55 M2 nuclear-membrane membrane mask
- 56 PCC nuclear-membrane cytoplasm mask
- 57 K1 nuclear-membrane cytoplasm mask
- 58 K2 nuclear-membrane cytoplasm mask
- 59 MOC nuclear-membrane cytoplasm mask
- 60 M1 nuclear-membrane cytoplasm mask
- 61 M2 nuclear-membrane cytoplasm mask
- 62 PCC nuclear-membrane cell mask
- 63 K1 nuclear-membrane cell mask
- 64 K2 nuclear-membrane cell mask
- 65 MOC nuclear-membrane cell mask
- 66 M1 nuclear-membrane cell mask
- 67 M2 nuclear-membrane cell mask
- 68 MPCC nuclear-membrane nuclear mask
- 69 MK1 nuclear-membrane nuclear mask
- 70 MK2 nuclear-membrane nuclear mask
- 71 MMOC nuclear-membrane nuclear mask
- 72 MM1 nuclear-membrane nuclear mask
- 73 MM2 nuclear-membrane nuclear mask
- 74 MPCC nuclear-membrane membrane mask
- 75 MK1 nuclear-membrane membrane mask
- 76 MK2 nuclear-membrane membrane mask
- 77 MMOC nuclear-membrane membrane mask
- 78 MM1 nuclear-membrane membrane mask
- 79 MM2 nuclear-membrane membrane mask
- 80 MPCC nuclear-membrane cytoplasm mask
- 81 MK1 nuclear-membrane cytoplasm mask
- 82 MK2 nuclear-membrane cytoplasm mask
- 83 MMOC nuclear-membrane cytoplasm mask
- 84 MM1 nuclear-membrane cytoplasm mask
- 85 MM2 nuclear-membrane cytoplasm mask
- 86 MPCC nuclear-membrane cell mask
- 87 MK1 nuclear-membrane cell mask
- 88 MK2 nuclear-membrane cell mask
- 89 MMOC nuclear-membrane cell mask
- 90 MM1 nuclear-membrane cell mask
- 91 MM2 nuclear-membrane cell mask

Standard Abbreviations for the Data column table within CyteSeer™

Measurements

Total integrated Intensity = Tii
 Average pixel intensity = Api
 Median pixel intensity = Mpi
 Standard deviation pixel intensity = Spi

Images

Nuclear image = Ni
 Membrane image Mi

Masks

Nuclear mask = Nm
 Membrane mask = Mm
 Cytoplasm mask = Cm
 Wholecellmask = Wm

Colocalization Coefficients

Pearsons	Masked Pearsons
Overlap	Masked Overlap
Manders K 1	Masked Manders K 1
Manders K 2	Masked Manders K 2
	Masked Manders 1
	Masked Manders 2



CyteSeer™ Lipid Cell-by-Cell Measurements

**Standard Abbreviations for the
Data column table within
CyteSeer™**

Measurements

Total integrated Intensity = Tii

Average pixel intensity = Api

Median pixel intensity = Mpi

Standard deviation pixel intensity = Spi

Images

Nuclear image = Ni

Membrane image Mi

Masks

Nuclear mask = Nm

Membrane mask = Mm

Cytoplasm mask = Cm

Wholecellmask = Wm

Colocalization Coefficients

Pearsons

Overlap

Manders K 1

Manders K 2

Masked Pearsons

Masked Overlap

Masked Manders K 1

Masked Manders K 2

Masked Manders 1

Masked Manders 2

1	imageset	34	MPI nuclear image no-lipid nuclear mask
2	region	35	SPI nuclear image no-lipid nuclear mask
3	cell ID	36	TII nuclear image no-lipid cytoplasm mask
4	width	37	API nuclear image no-lipid cytoplasm mask
5	height	38	MPI nuclear image no-lipid cytoplasm mask
6	Area nuclear mask	39	SPI nuclear image no-lipid cytoplasm mask
7	Area cytoplasm mask	40	TII lipid image nuclear mask
8	Area lipid mask	41	API lipid image nuclear mask
9	Area cell mask	42	MPI lipid image nuclear mask
10	Ratio of lipid mask area to cell mask area	43	SPI lipid image nuclear mask
11	Area no-lipid nuclear mask	44	TII lipid image cytoplasm mask
12	Area no-lipid cytoplasm mask	45	API lipid image cytoplasm mask
13	Lipid droplet count	46	MPI lipid image cytoplasm mask
14	Mean lipid droplet area	47	SPI lipid image cytoplasm mask
15	RMS lipid droplet diameter	48	TII lipid image lipid mask
16	TII nuclear image nuclear mask	49	API lipid image lipid mask
17	API nuclear image nuclear mask	50	MPI lipid image lipid mask
18	MPI nuclear image nuclear mask	51	SPI lipid image lipid mask
19	SPI nuclear image nuclear mask	52	TII lipid image cell mask
20	TII nuclear image cytoplasm mask	53	API lipid image cell mask
21	API nuclear image cytoplasm mask	54	MPI lipid image cell mask
22	MPI nuclear image cytoplasm mask	55	SPI lipid image cell mask
23	SPI nuclear image cytoplasm mask	56	TII lipid image no-lipid nuclear mask
24	TII nuclear image lipid mask	57	API lipid image no-lipid nuclear mask
25	API nuclear image lipid mask	58	MPI lipid image no-lipid nuclear mask
26	MPI nuclear image lipid mask	59	SPI lipid image no-lipid nuclear mask
27	SPI nuclear image lipid mask	60	TII lipid image no-lipid cytoplasm mask
28	TII nuclear image cell mask	61	API lipid image no-lipid cytoplasm mask
29	API nuclear image cell mask	62	MPI lipid image no-lipid cytoplasm mask
30	MPI nuclear image cell mask	63	SPI lipid image no-lipid cytoplasm mask
31	SPI nuclear image cell mask	64	Diff: MPI lipid image lipid-cytoplasm mask
32	TII nuclear image no-lipid nuclear mask	65	Ratio: MPI lipid image lipid/cytoplasm mask
33	API nuclear image no-lipid nuclear mask		



CyteSeer™ Lipid-Perilipin Cell-by-Cell Measurements

Standard Abbreviations for the Data within CyteSeer™

Measurements

Total integrated Intensity = Tii
 Average pixel intensity = Api
 Median pixel intensity = Mpi
 Standard deviation pixel intensity = Spi

Images

Nuclear image = Ni
 Membrane image Mi
 Lipid image = Li
 Protein image = Pi

Masks

Nuclear mask = Nm
 Membrane mask = Mm
 Cytoplasm mask = Cm
 Wholecellmask = Wm
 Lipid Mask = Lm
 No lipid = X
 X Nm = no lipid nuclear mask
 X Cm = no lipid cytoplasm mask
 Protein Mask = Pm
 No protein = Q
 X Nm = no lipid nuclear mask
 X Cm = no lipid cytoplasm mask
 Q Nm = no protein nuclear mask
 Q Cm = no protein cytoplasm mask

Colocalization coefficients

Pearsons	Masked Pearsons
Manders K 1	Masked K 1
Manders K 2	Masked K 2
Overlap	Masked Overlap
Manders 1	Masked Manders 1
Manders 2	Masked Manders 2

1 imageset	31 Tii Li Wm	61 Tii Pi Lm
2 region	32 Api Li Wm	62 Api Pi Lm
3 cell ID	33 Mpi Li Wm	63 Mpi Pi Lm
4 width	34 Spi Li Wm	64 Spi Pi Lm
5 height	35 Tii Li Lm	65 Tii Pi Cm
6 Area Nm	36 Api Li Lm	66 Api Pi Cm
7 Area Lm	37 Mpi Li Lm	67 Mpi Pi Cm
8 Area Wm	38 Spi Li Lm	68 Spi Pi Cm
9 R : Area Lm / Area Wm	39 Tii Li X Nm	69 Tii Pi Q Nm
10 Area Pm	40 Api Li X Nm	70 Api Pi Q Nm
11 Area Cm	41 Mpi Li X Nm	71 Mpi Pi Q Nm
12 Area X Nm	42 Spi Li X Nm	72 Spi Pi Q Nm
13 Area X Cm	43 Tii Li X Cm	73 Tii Pi Q Cm
14 Area Q Nm	44 Api Li X Cm	74 Api Pi Q Cm
15 Area Q Pm	45 Mpi Li X Cm	75 Mpi Pi Q Cm
16 Lipid droplet count	46 Spi Li X Cm	76 Spi Pi Q Cm
17 Mean lipid droplet area	47 D : Mpi Li Lm - Mpi Li Cm	77 D : Mpi Pi Pm - Mpi Pi Cm
18 RMS lipid droplet diameter	48 R : Mpi Li Lm / Mpi Li Cm	78 R : Mpi Pi Pm / Mpi Pi Cm
19 Tii Ni Nm	49 Tii Pi Nm	79 Pearsons Li Pi Cm
20 Api Ni Nm	50 Api Pi Nm	80 K 1 Li Pi Cm
21 Mpi Ni Nm	51 Mpi Pi Nm	81 K 2 Li Pi Cm
22 Spi Ni Nm	52 Spi Pi Nm	82 Manders Overlap Li Pi Cm
23 Tii Ni Cm	53 Ti Pi Cm	83 Manders 1 Li Pi Cm
24 Api Ni Cm	54 Api Pi Cm	84 Manders 2 Li Pi Cm
25 Mpi Ni Cm	55 Mpi Pi Cm	85 Masked Pearsons Li Pi Cm
26 Spi Ni Cm	56 Spi Pi Cm	86 Masked K 1 Li Pi Cm
27 Tii Li Nm	57 Tii Pi Pm	87 Masked K 2 Li Pi Cm
28 Api Li Nm	58 Api Pi Pm	88 Masked Manders Overlap Li Pi Cm
29 Mpi Li Nm	59 Mpi Pi Pm	89 Masked Manders 1 Li Pi Cm
30 Spi Li Nm	60 Spi Pi Pm	90 Masked Manders 2 Li Pi Cm



CyteSeer™ RNA Cell-by-Cell Measurements

**Standard Abbreviations for the
Data column table within
CyteSeer™**

Measurements

Total integrated Intensity = Tii
Average pixel intensity = Api
Median pixel intensity = Mpi
Standard deviation pixel intensity = Spi

Images

Nuclear image = Ni
Membrane image Mi

Masks

Nuclear mask = Nm
Membrane mask = Mm
Cytoplasm mask = Cm
Wholecellmask = Wm

Colocalization Coefficients

Pearsons
Overlap
Manders K 1
Manders K 2
Masked Pearsons
Masked Overlap
Masked Manders K 1
Masked Manders K 2
Masked Manders 1
Masked Manders 2

- 1 Imageset
- 2 region
- 5 cell ID
- 6 RNA Spot Count
- 7 RNA Area
- 8 RNA Intensity
- 9 RNA Nuclear Spot Count
- 10 Nuclear Spot Count Density
- 11 Area in Nucleus
- 12 Area Density in Nucleus
- 13 Intensity in Nucleus
- 14 Intensity Fraction in Nucleus
- 15 Cell Area
- 16 Nucleus Area
- 17 Nucleus Intensity
- 18 X-Nucleus
- 19 Y-Nucleus
- 20 Boundary Cell

CyteSeer™ Skeletal Muscle Cell-by-Cell Measurements

Standard Abbreviations for the Data column table within [CyteSeer™](#)

Measurements

Total integrated Intensity = Tii

Average pixel intensity = Api

Median pixel intensity = Mpi

Standard deviation pixel intensity = Spi

Images

Nuclear image = Ni

Membrane image Mi

Masks

Nuclear mask = Nm

Membrane mask = Mm

Cytoplasm mask = Cm

Wholecellmask = Wm

Colocalization Coefficients

Pearsons

Overlap

Manders K 1

Manders K 2

Masked Pearsons

Masked Overlap

Masked Manders K 1

Masked Manders K 2

Masked Manders 1

Masked Manders 2

1 Cell ID ID of each record

2 1 Well Name of the well

3 Area Mm Area of Membrane Mask

4 Area Tm Area of Thick Membrane Mask

5 Area Wm Area of Whole-Cell Mask

6 XLeft Mm XLeft of Membrane Mask

7 YTop Mm YTop of Membrane Mask

8 Width Mm Width of Membrane Mask

9 Height Mm Height of Membrane Mask

10 IsBoundary Mm IsBoundary of Membrane Mask

11 XCentroid Mm XCentroid of Membrane Mask

12 YCentroid Mm YCentroid of Membrane Mask

13 XLeft Tm XLeft of Thick Membrane Mask

14 YTop Tm YTop of Thick Membrane Mask

15 Width Tm Width of Thick Membrane Mask

16 Height Tm Height of Thick Membrane Mask

17 IsBoundary Tm IsBoundary of Thick Membrane Mask

18 XCentroid Tm XCentroid of Thick Membrane Mask

19 YCentroid Tm YCentroid of Thick Membrane Mask

20 XLeft Wm XLeft of Whole-Cell Mask

21 YTop Wm YTop of Whole-Cell Mask

22 Width Wm Width of Whole-Cell Mask

23 Height Wm Height of Whole-Cell Mask

24 IsBoundary Wm IsBoundary of Whole-Cell Mask

25 XCentroid Wm XCentroid of Whole-Cell Mask

26 YCentroid Wm YCentroid of Whole-Cell Mask

27 Cell Mean Radius Cell Mean Radius

28 Cell Perimeter Cell Perimeter

29 Cell Roundness Cell Roundness

30 Boundary Cell Boundary Cell

31 X-Cell X-Position of Cell

32 Y-Cell Y-Position of Cell

33 Major Axis Major Axis of Cell

34 Minor Axis Minor Axis of Cell

35 Elongation Elongation of Cell

36 TII Mi Mm Total Integrated Intensity of Muscle Image on Membrane Mask

37 API Mi Mm Average Pixel Intensity of Muscle Image on Membrane Mask

38 MPI Mi Mm Median Pixel Intensity of Muscle Image on Membrane Mask

39 SPI Mi Mm Standard Deviation of Pixel Intensity of Muscle Image on Membrane Mask

40 TII Mi Tm Total Integrated Intensity of Muscle Image on Thick Membrane Mask

41 API Mi Tm Average Pixel Intensity of Muscle Image on Thick Membrane Mask

42 MPI Mi Tm Median Pixel Intensity of Muscle Image on Thick Membrane Mask

43 SPI Mi Tm Standard Deviation of Pixel Intensity of Muscle Image on Thick Membrane Mask

44 Cell Muscle Integrated Intensity Total Integrated Muscle Intensity on Cell

45 Cell Muscle Average Intensity Average Muscle Intensity on Cell

46 Cell Muscle Std Dev Intensity Standard Deviation of Muscle Intensity on Cell

47 Cell Skew Intensity Skewness of Muscle Intensity on Cell

48 Cell Kurtosis Intensity Kurtosis of Muscle Intensity on Cell

49 Cell TII to StdDev Ratio Ratio of Muscle Integrated Intensity to Muscle Standard Deviation on Cell

