Supporting information for:

Limits for resolving isobaric tandem mass tag reporter ions using phase constrained spectrum deconvolution

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Figure S-1

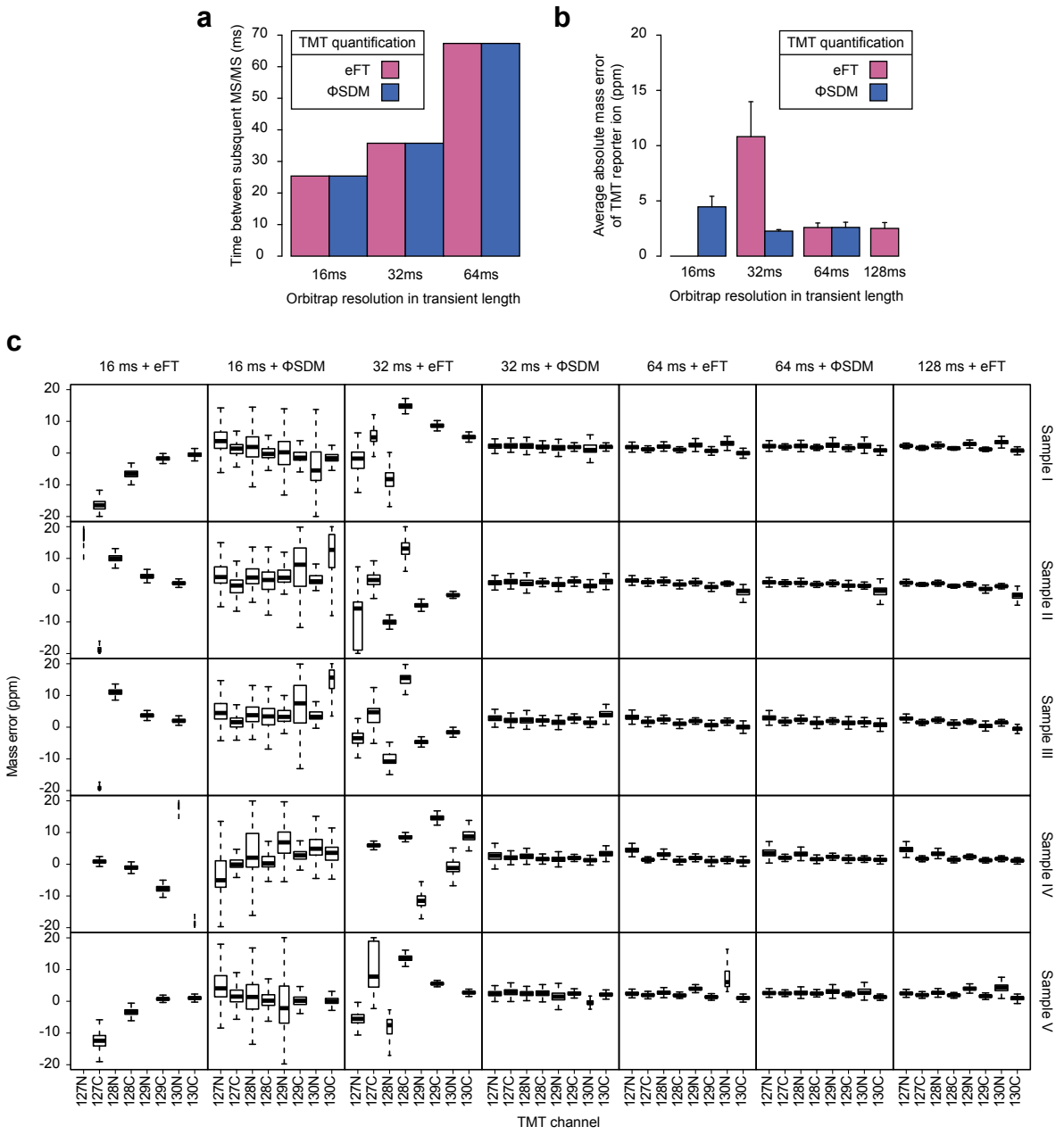

Figure S-1: Characteristics of transient lengths and FT processing method. (a) Bar chart showing the acquisition time for three transients processed with eFT or ΦSDM. There is no difference seen between the eFT and ΦSDM. (b) Bar chart showing a representative example of the average absolute mass accuracy for the 128N reporter ion across different transients. The error bars are the standard deviation from the different samples. The mass accuracy is similar for the 32 ms ΦSDM method and for all longer transients disregarding TMT quantification method. The 16 ms eFT method did not resolve the 128N reporter ion. (c) Boxplots showing details of mass errors for each TMT channel in each sample. The relative widths of the boxes making up each subplot was set proportional to the number of observations in the groups with a lower limit of 1% i.e. narrow boxes indicate a low number of mass error measurements and missing boxes indicate below 1% of peaks were resolved.

Figure S-2

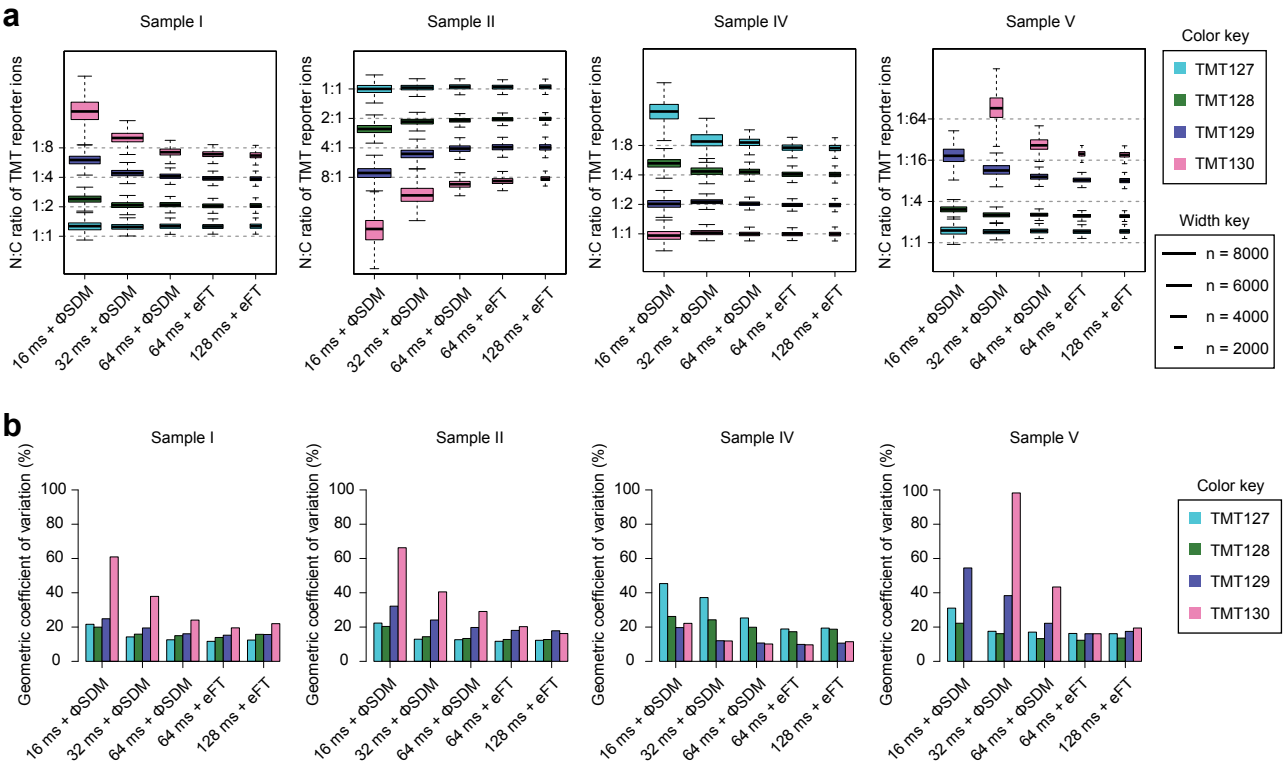

Figure S-2: Additional data on precision and accuracy. (a) Box chart show the quantitative performance for the four N:C ratios across the remaining samples (I, II, IV, and V) and across the five acquisition methods. The width of each box is set proportional to the number of quantified ratios (see width key). (b) Bar chart show the precision in the form of the geometric coefficient of variation for the observed ratios for each reporter ion pair.

Figure S-3

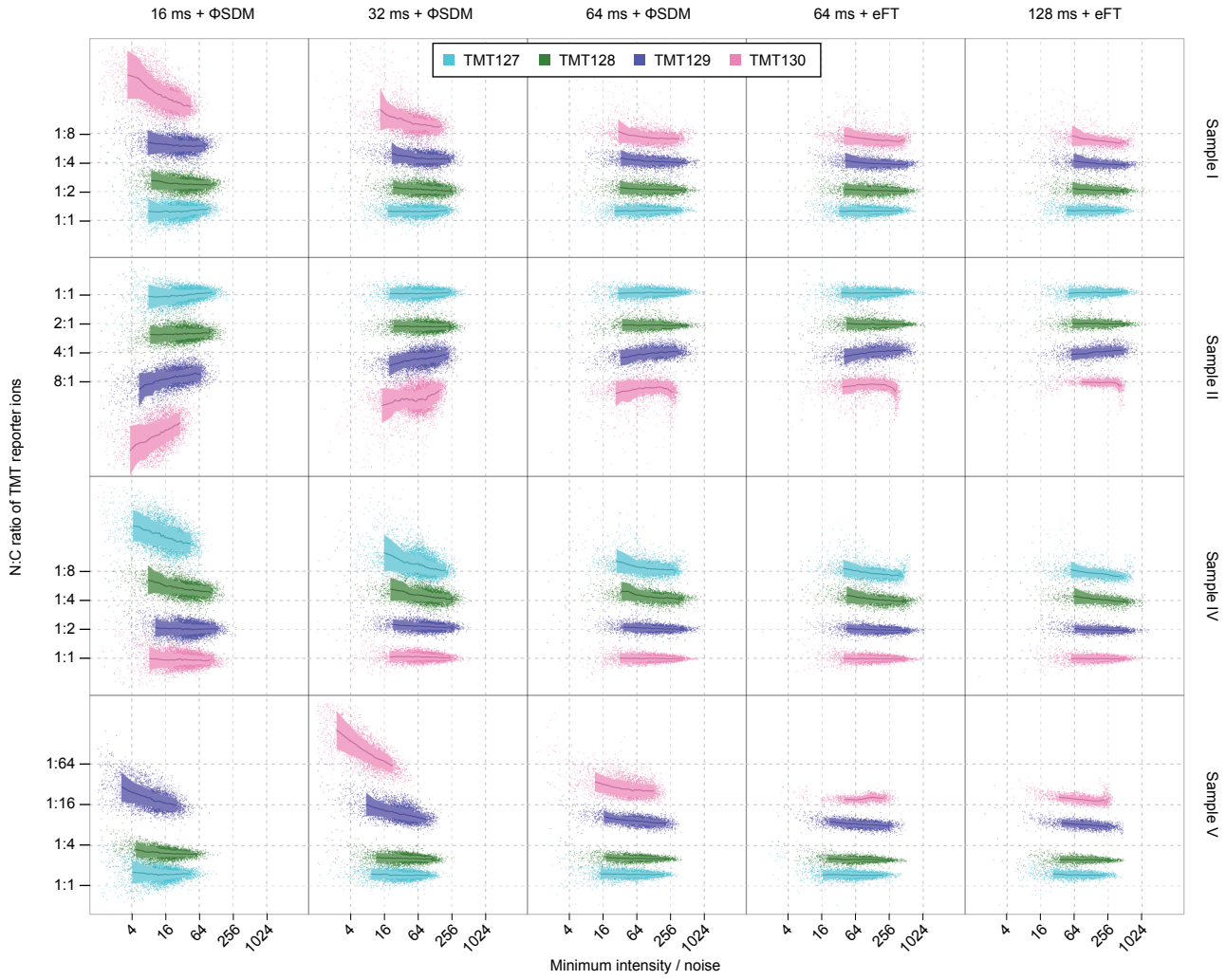

Figure S-3: Additional data on intensity dependency. Scatter plot showing the observed N:C ratios for each closely spaced TMT reporter ion pair as a function of the minimum intensity to noise value. An overlay has been added to show trends, consisting of a darkened line representing the 300 point moving average and a solid area covering the moving average ± the moving standard deviation. The four samples not detailed in the main text are shown here for each of the five acquisition methods.

Table S-1 (1/7): Overview of acquired raw data

Raw file	Experiment	Sample	MS method	Gradient
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_A_075_NoPhi_11ms_01	Main	HeLa I	eFT, 16 ms transient, 11 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_A_075_NoPhi_86ms_01	Main	HeLa I	eFT, 16 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_A_075_Phi_11ms_01	Main	HeLa I	ΦSDM, 16 ms transient, 11 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_A_075_Phi_86ms_01	Main	HeLa I	ΦSDM, 16 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_A_150_NoPhi_22ms_01	Main	HeLa I	eFT, 32 ms transient, 22 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_A_150_NoPhi_86ms_01	Main	HeLa I	eFT, 32 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_A_150_Phi_22ms_01	Main	HeLa I	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_A_150_Phi_86ms_01	Main	HeLa I	ΦSDM, 32 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_A_300_NoPhi_54ms_01	Main	HeLa I	eFT, 64 ms transient, 54 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_A_300_NoPhi_86ms_01	Main	HeLa I	eFT, 64 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_A_300_Phi_54ms_01	Main	HeLa I	ΦSDM, 64 ms transient, 54 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_A_300_Phi_86ms_01	Main	HeLa I	ΦSDM, 64 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_A_600_NoPhi_118ms_01	Main	HeLa I	eFT, 128 ms transient, 118 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_A_600_NoPhi_86ms_01	Main	HeLa I	eFT, 128 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_B_075_NoPhi_11ms_01	Main	HeLa II	eFT, 16 ms transient, 11 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_B_075_NoPhi_86ms_01	Main	HeLa II	eFT, 16 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_B_075_Phi_11ms_01	Main	HeLa II	ΦSDM, 16 ms transient, 11 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_B_075_Phi_86ms_01	Main	HeLa II	ΦSDM, 16 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_B_150_NoPhi_22ms_01	Main	HeLa II	eFT, 32 ms transient, 22 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_B_150_NoPhi_86ms_01	Main	HeLa II	eFT, 32 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_B_150_Phi_22ms_01	Main	HeLa II	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_B_150_Phi_86ms_01	Main	HeLa II	ΦSDM, 32 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_B_300_NoPhi_54ms_01	Main	HeLa II	eFT, 64 ms transient, 54 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_B_300_NoPhi_86ms_01	Main	HeLa II	eFT, 64 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_B_300_Phi_54ms_01	Main	HeLa II	ΦSDM, 64 ms transient, 54 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_B_300_Phi_86ms_01	Main	HeLa II	ΦSDM, 64 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_B_600_NoPhi_118ms_01	Main	HeLa II	eFT, 128 ms transient, 118 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_B_600_NoPhi_86ms_01	Main	HeLa II	eFT, 128 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_C_075_NoPhi_11ms_01	Main	HeLa III	eFT, 16 ms transient, 11 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_C_075_NoPhi_86ms_01	Main	HeLa III	eFT, 16 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_C_075_Phi_11ms_01	Main	HeLa III	ΦSDM, 16 ms transient, 11 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_C_075_Phi_86ms_01	Main	HeLa III	ΦSDM, 16 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_C_150_NoPhi_22ms_01	Main	HeLa III	eFT, 32 ms transient, 22 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_C_150_NoPhi_86ms_01	Main	HeLa III	eFT, 32 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_C_150_Phi_22ms_01	Main	HeLa III	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_C_150_Phi_86ms_01	Main	HeLa III	ΦSDM, 32 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_C_300_NoPhi_54ms_01	Main	HeLa III	eFT, 64 ms transient, 54 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_C_300_NoPhi_86ms_01	Main	HeLa III	eFT, 64 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_C_300_Phi_54ms_01	Main	HeLa III	ΦSDM, 64 ms transient, 54 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_C_300_Phi_86ms_01	Main	HeLa III	ΦSDM, 64 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_C_600_NoPhi_118ms_01	Main	HeLa III	eFT, 128 ms transient, 118 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_C_600_NoPhi_86ms_01	Main	HeLa III	eFT, 128 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_D_075_NoPhi_11ms_01	Main	HeLa IV	eFT, 16 ms transient, 11 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_D_075_NoPhi_86ms_01	Main	HeLa IV	eFT, 16 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_D_075_Phi_11ms_01	Main	HeLa IV	ΦSDM, 16 ms transient, 11 ms ion injection	15min

Table S-1 (2/7): Overview of acquired raw data

Raw file	Experiment	Sample	MS method	Gradient
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_D_075_Phi_86ms_01	Main	HeLa IV	ΦSDM, 16 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_D_150_NoPhi_22ms_01	Main	HeLa IV	eFT, 32 ms transient, 22 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_D_150_NoPhi_86ms_01	Main	HeLa IV	eFT, 32 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_D_150_Phi_22ms_01	Main	HeLa IV	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_D_150_Phi_86ms_01	Main	HeLa IV	ΦSDM, 32 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_D_300_NoPhi_54ms_01	Main	HeLa IV	eFT, 64 ms transient, 54 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_D_300_NoPhi_86ms_01	Main	HeLa IV	eFT, 64 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_D_300_Phi_54ms_01	Main	HeLa IV	ΦSDM, 64 ms transient, 54 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_D_300_Phi_86ms_01	Main	HeLa IV	ΦSDM, 64 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_D_600_NoPhi_118ms_01	Main	HeLa IV	eFT, 128 ms transient, 118 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_D_600_NoPhi_86ms_01	Main	HeLa IV	eFT, 128 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_E_075_NoPhi_11ms_01	Main	HeLa V	eFT, 16 ms transient, 11 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_E_075_NoPhi_86ms_01	Main	HeLa V	eFT, 16 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_E_075_Phi_11ms_01	Main	HeLa V	ΦSDM, 16 ms transient, 11 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_E_075_Phi_86ms_01	Main	HeLa V	ΦSDM, 16 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_E_150_NoPhi_22ms_01	Main	HeLa V	eFT, 32 ms transient, 22 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_E_150_NoPhi_86ms_01	Main	HeLa V	eFT, 32 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_E_150_Phi_22ms_01	Main	HeLa V	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_E_150_Phi_86ms_01	Main	HeLa V	ΦSDM, 32 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_E_300_NoPhi_54ms_01	Main	HeLa V	eFT, 64 ms transient, 54 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_E_300_NoPhi_86ms_01	Main	HeLa V	eFT, 64 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_E_300_Phi_54ms_01	Main	HeLa V	ΦSDM, 64 ms transient, 54 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_E_300_Phi_86ms_01	Main	HeLa V	ΦSDM, 64 ms transient, 86 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_E_600_NoPhi_118ms_01	Main	HeLa V	eFT, 128 ms transient, 118 ms ion injection	15min
20180209_QE3_nLC11_ChKe_SA_PhiSDMeval_E_600_NoPhi_86ms_01	Main	HeLa V	eFT, 128 ms transient, 86 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_010ng_TMT_eFT_1	Dilution	4 cell lines	eFT, 64 ms transient, 54 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_010ng_TMT_eFT_2	Dilution	4 cell lines	eFT, 64 ms transient, 54 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_010ng_TMT_phi_1	Dilution	4 cell lines	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_010ng_TMT_phi_2	Dilution	4 cell lines	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_020ng_TMT_eFT_1	Dilution	4 cell lines	eFT, 64 ms transient, 54 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_020ng_TMT_eFT_2	Dilution	4 cell lines	eFT, 64 ms transient, 54 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_020ng_TMT_phi_1	Dilution	4 cell lines	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_020ng_TMT_phi_2	Dilution	4 cell lines	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_050ng_TMT_eFT_1	Dilution	4 cell lines	eFT, 64 ms transient, 54 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_050ng_TMT_eFT_2	Dilution	4 cell lines	eFT, 64 ms transient, 54 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_050ng_TMT_phi_1	Dilution	4 cell lines	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_050ng_TMT_phi_2	Dilution	4 cell lines	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_100ng_TMT_eFT_1	Dilution	4 cell lines	eFT, 64 ms transient, 54 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_100ng_TMT_eFT_2	Dilution	4 cell lines	eFT, 64 ms transient, 54 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_100ng_TMT_phi_1	Dilution	4 cell lines	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_100ng_TMT_phi_2	Dilution	4 cell lines	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_250ng_TMT_eFT_1	Dilution	4 cell lines	eFT, 64 ms transient, 54 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_250ng_TMT_eFT_2	Dilution	4 cell lines	eFT, 64 ms transient, 54 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_250ng_TMT_phi_1	Dilution	4 cell lines	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_DilTest_250ng_TMT_phi_2	Dilution	4 cell lines	ΦSDM, 32 ms transient, 22 ms ion injection	15min

Table S-1 (3/7): Overview of acquired raw data

Raw file	Experiment	Sample	MS method	Gradient
20180820_QE3_nLC3_ChKe_SA_PhiEval_GradTest_015min_TMT_eFT_1	Gradient	4 cell lines	eFT, 64 ms transient, 54 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_GradTest_015min_TMT_eFT_2	Gradient	4 cell lines	eFT, 64 ms transient, 54 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_GradTest_015min_TMT_phi_1	Gradient	4 cell lines	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_GradTest_015min_TMT_phi_2	Gradient	4 cell lines	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180820_QE3_nLC3_ChKe_SA_PhiEval_GradTest_030min_TMT_eFT_1	Gradient	4 cell lines	eFT, 64 ms transient, 54 ms ion injection	30min
20180820_QE3_nLC3_ChKe_SA_PhiEval_GradTest_030min_TMT_eFT_2	Gradient	4 cell lines	eFT, 64 ms transient, 54 ms ion injection	30min
20180820_QE3_nLC3_ChKe_SA_PhiEval_GradTest_030min_TMT_phi_1	Gradient	4 cell lines	ΦSDM, 32 ms transient, 22 ms ion injection	30min
20180820_QE3_nLC3_ChKe_SA_PhiEval_GradTest_030min_TMT_phi_2	Gradient	4 cell lines	ΦSDM, 32 ms transient, 22 ms ion injection	30min
20180820_QE3_nLC3_ChKe_SA_PhiEval_GradTest_060min_TMT_eFT_1	Gradient	4 cell lines	eFT, 64 ms transient, 54 ms ion injection	60min
20180820_QE3_nLC3_ChKe_SA_PhiEval_GradTest_060min_TMT_eFT_2	Gradient	4 cell lines	eFT, 64 ms transient, 54 ms ion injection	60min
20180820_QE3_nLC3_ChKe_SA_PhiEval_GradTest_060min_TMT_phi_1	Gradient	4 cell lines	ΦSDM, 32 ms transient, 22 ms ion injection	60min
20180820_QE3_nLC3_ChKe_SA_PhiEval_GradTest_060min_TMT_phi_2	Gradient	4 cell lines	ΦSDM, 32 ms transient, 22 ms ion injection	60min
20180820_QE3_nLC3_ChKe_SA_PhiEval_GradTest_120min_TMT_eFT_1	Gradient	4 cell lines	eFT, 64 ms transient, 54 ms ion injection	120min
20180820_QE3_nLC3_ChKe_SA_PhiEval_GradTest_120min_TMT_eFT_2	Gradient	4 cell lines	eFT, 64 ms transient, 54 ms ion injection	120min
20180820_QE3_nLC3_ChKe_SA_PhiEval_GradTest_120min_TMT_phi_1	Gradient	4 cell lines	ΦSDM, 32 ms transient, 22 ms ion injection	120min
20180820_QE3_nLC3_ChKe_SA_PhiEval_GradTest_120min_TMT_phi_2	Gradient	4 cell lines	ΦSDM, 32 ms transient, 22 ms ion injection	120min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac01_eFT_1	Fractionation	4 cell lines, fraction 1	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac01_eFT_2	Fractionation	4 cell lines, fraction 1	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac01_phi_1	Fractionation	4 cell lines, fraction 1	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac01_phi_2	Fractionation	4 cell lines, fraction 1	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac02_eFT_1	Fractionation	4 cell lines, fraction 2	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac02_eFT_2	Fractionation	4 cell lines, fraction 2	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac02_phi_1	Fractionation	4 cell lines, fraction 2	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac02_phi_2	Fractionation	4 cell lines, fraction 2	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac03_eFT_1	Fractionation	4 cell lines, fraction 3	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac03_eFT_2	Fractionation	4 cell lines, fraction 3	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac03_phi_1	Fractionation	4 cell lines, fraction 3	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac03_phi_2	Fractionation	4 cell lines, fraction 3	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac04_eFT_1	Fractionation	4 cell lines, fraction 4	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac04_eFT_2	Fractionation	4 cell lines, fraction 4	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac04_phi_1	Fractionation	4 cell lines, fraction 4	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac04_phi_2	Fractionation	4 cell lines, fraction 4	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac05_eFT_1	Fractionation	4 cell lines, fraction 5	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac05_eFT_2	Fractionation	4 cell lines, fraction 5	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac05_phi_1	Fractionation	4 cell lines, fraction 5	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac05_phi_2	Fractionation	4 cell lines, fraction 5	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac06_eFT_1	Fractionation	4 cell lines, fraction 6	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac06_eFT_2	Fractionation	4 cell lines, fraction 6	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac06_phi_1	Fractionation	4 cell lines, fraction 6	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac06_phi_2	Fractionation	4 cell lines, fraction 6	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac07_eFT_1	Fractionation	4 cell lines, fraction 7	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac07_eFT_2	Fractionation	4 cell lines, fraction 7	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac07_phi_1	Fractionation	4 cell lines, fraction 7	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac07_phi_2	Fractionation	4 cell lines, fraction 7	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac08_eFT_1	Fractionation	4 cell lines, fraction 8	eFT, 64 ms transient, 54 ms ion injection	15min

Table S-1 (4/7): Overview of acquired raw data

Raw file	Experiment	Sample	MS method	Gradient
20180823_QE3_nLC3_ChKe_SA_TMT_Frac08_eFT_2	Fractionation	4 cell lines, fraction 8	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac08_phi_1	Fractionation	4 cell lines, fraction 8	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac08_phi_2	Fractionation	4 cell lines, fraction 8	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac09_eFT_1	Fractionation	4 cell lines, fraction 9	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac09_eFT_2	Fractionation	4 cell lines, fraction 9	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac09_phi_1	Fractionation	4 cell lines, fraction 9	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac09_phi_2	Fractionation	4 cell lines, fraction 9	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac10_eFT_1	Fractionation	4 cell lines, fraction 10	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac10_eFT_2	Fractionation	4 cell lines, fraction 10	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac10_phi_1	Fractionation	4 cell lines, fraction 10	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac10_phi_2	Fractionation	4 cell lines, fraction 10	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac11_eFT_1	Fractionation	4 cell lines, fraction 11	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac11_eFT_2	Fractionation	4 cell lines, fraction 11	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac11_phi_1	Fractionation	4 cell lines, fraction 11	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac11_phi_2	Fractionation	4 cell lines, fraction 11	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac12_eFT_1	Fractionation	4 cell lines, fraction 12	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac12_eFT_2	Fractionation	4 cell lines, fraction 12	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac12_phi_1	Fractionation	4 cell lines, fraction 12	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac12_phi_2	Fractionation	4 cell lines, fraction 12	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac13_eFT_1	Fractionation	4 cell lines, fraction 13	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac13_eFT_2	Fractionation	4 cell lines, fraction 13	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac13_phi_1	Fractionation	4 cell lines, fraction 13	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac13_phi_2	Fractionation	4 cell lines, fraction 13	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac14_eFT_1	Fractionation	4 cell lines, fraction 14	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac14_eFT_2	Fractionation	4 cell lines, fraction 14	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac14_phi_1	Fractionation	4 cell lines, fraction 14	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac14_phi_2	Fractionation	4 cell lines, fraction 14	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac15_eFT_1	Fractionation	4 cell lines, fraction 15	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac15_eFT_2	Fractionation	4 cell lines, fraction 15	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac15_phi_1	Fractionation	4 cell lines, fraction 15	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac15_phi_2	Fractionation	4 cell lines, fraction 15	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac16_eFT_1	Fractionation	4 cell lines, fraction 16	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac16_eFT_2	Fractionation	4 cell lines, fraction 16	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac16_phi_1	Fractionation	4 cell lines, fraction 16	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac16_phi_2	Fractionation	4 cell lines, fraction 16	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac17_eFT_1	Fractionation	4 cell lines, fraction 17	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac17_eFT_2	Fractionation	4 cell lines, fraction 17	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac17_phi_1	Fractionation	4 cell lines, fraction 17	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac17_phi_2	Fractionation	4 cell lines, fraction 17	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac18_eFT_1	Fractionation	4 cell lines, fraction 18	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac18_eFT_2	Fractionation	4 cell lines, fraction 18	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac18_phi_1	Fractionation	4 cell lines, fraction 18	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac18_phi_2	Fractionation	4 cell lines, fraction 18	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac19_eFT_1	Fractionation	4 cell lines, fraction 19	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac19_eFT_2	Fractionation	4 cell lines, fraction 19	eFT, 64 ms transient, 54 ms ion injection	15min

Table S-1 (5/7): Overview of acquired raw data

Raw file	Experiment	Sample	MS method	Gradient
20180823_QE3_nLC3_ChKe_SA_TMT_Frac19_phi_1	Fractionation	4 cell lines, fraction 19	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac19_phi_2	Fractionation	4 cell lines, fraction 19	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac20_eFT_1	Fractionation	4 cell lines, fraction 20	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac20_eFT_2	Fractionation	4 cell lines, fraction 20	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac20_phi_1	Fractionation	4 cell lines, fraction 20	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac20_phi_2	Fractionation	4 cell lines, fraction 20	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac21_eFT_1	Fractionation	4 cell lines, fraction 21	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac21_eFT_2	Fractionation	4 cell lines, fraction 21	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac21_phi_1	Fractionation	4 cell lines, fraction 21	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac21_phi_2	Fractionation	4 cell lines, fraction 21	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac22_eFT_1	Fractionation	4 cell lines, fraction 22	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac22_eFT_2	Fractionation	4 cell lines, fraction 22	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac22_phi_1	Fractionation	4 cell lines, fraction 22	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac22_phi_2	Fractionation	4 cell lines, fraction 22	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac23_eFT_1	Fractionation	4 cell lines, fraction 23	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac23_eFT_2	Fractionation	4 cell lines, fraction 23	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac23_phi_1	Fractionation	4 cell lines, fraction 23	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac23_phi_2	Fractionation	4 cell lines, fraction 23	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac24_eFT_1	Fractionation	4 cell lines, fraction 24	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac24_eFT_2	Fractionation	4 cell lines, fraction 24	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac24_phi_1	Fractionation	4 cell lines, fraction 24	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac24_phi_2	Fractionation	4 cell lines, fraction 24	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac25_eFT_1	Fractionation	4 cell lines, fraction 25	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac25_eFT_2	Fractionation	4 cell lines, fraction 25	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac25_phi_1	Fractionation	4 cell lines, fraction 25	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac25_phi_2	Fractionation	4 cell lines, fraction 25	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac26_eFT_1	Fractionation	4 cell lines, fraction 26	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac26_eFT_2	Fractionation	4 cell lines, fraction 26	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac26_phi_1	Fractionation	4 cell lines, fraction 26	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac26_phi_2	Fractionation	4 cell lines, fraction 26	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac27_eFT_1	Fractionation	4 cell lines, fraction 27	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac27_eFT_2	Fractionation	4 cell lines, fraction 27	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac27_phi_1	Fractionation	4 cell lines, fraction 27	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac27_phi_2	Fractionation	4 cell lines, fraction 27	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac28_eFT_1	Fractionation	4 cell lines, fraction 28	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac28_eFT_2	Fractionation	4 cell lines, fraction 28	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac28_phi_1	Fractionation	4 cell lines, fraction 28	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac28_phi_2	Fractionation	4 cell lines, fraction 28	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac29_eFT_1	Fractionation	4 cell lines, fraction 29	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac29_eFT_2	Fractionation	4 cell lines, fraction 29	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac29_phi_1	Fractionation	4 cell lines, fraction 29	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac29_phi_2	Fractionation	4 cell lines, fraction 29	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac30_eFT_1	Fractionation	4 cell lines, fraction 30	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac30_eFT_2	Fractionation	4 cell lines, fraction 30	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac30_phi_1	Fractionation	4 cell lines, fraction 30	ΦSDM, 32 ms transient, 22 ms ion injection	15min

Table S-1 (6/7): Overview of acquired raw data

Raw file	Experiment	Sample	MS method	Gradient
20180823_QE3_nLC3_ChKe_SA_TMT_Frac30_phi_2	Fractionation	4 cell lines, fraction 30	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac31_eFT_1	Fractionation	4 cell lines, fraction 31	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac31_eFT_2	Fractionation	4 cell lines, fraction 31	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac31_phi_1	Fractionation	4 cell lines, fraction 31	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac31_phi_2	Fractionation	4 cell lines, fraction 31	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac32_eFT_1	Fractionation	4 cell lines, fraction 32	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac32_eFT_2	Fractionation	4 cell lines, fraction 32	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac32_phi_1	Fractionation	4 cell lines, fraction 32	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac32_phi_2	Fractionation	4 cell lines, fraction 32	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac33_eFT_1	Fractionation	4 cell lines, fraction 33	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac33_eFT_2	Fractionation	4 cell lines, fraction 33	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac33_phi_1	Fractionation	4 cell lines, fraction 33	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac33_phi_2	Fractionation	4 cell lines, fraction 33	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac34_eFT_1	Fractionation	4 cell lines, fraction 34	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac34_eFT_2	Fractionation	4 cell lines, fraction 34	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac34_phi_1	Fractionation	4 cell lines, fraction 34	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac34_phi_2	Fractionation	4 cell lines, fraction 34	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac35_eFT_1	Fractionation	4 cell lines, fraction 35	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac35_eFT_2	Fractionation	4 cell lines, fraction 35	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac35_phi_1	Fractionation	4 cell lines, fraction 35	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac35_phi_2	Fractionation	4 cell lines, fraction 35	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac36_eFT_1	Fractionation	4 cell lines, fraction 36	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac36_eFT_2	Fractionation	4 cell lines, fraction 36	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac36_phi_1	Fractionation	4 cell lines, fraction 36	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac36_phi_2	Fractionation	4 cell lines, fraction 36	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac37_eFT_1	Fractionation	4 cell lines, fraction 37	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac37_eFT_2	Fractionation	4 cell lines, fraction 37	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac37_phi_1	Fractionation	4 cell lines, fraction 37	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac37_phi_2	Fractionation	4 cell lines, fraction 37	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac38_eFT_1	Fractionation	4 cell lines, fraction 38	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac38_eFT_2	Fractionation	4 cell lines, fraction 38	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac38_phi_1	Fractionation	4 cell lines, fraction 38	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac38_phi_2	Fractionation	4 cell lines, fraction 38	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac39_eFT_1	Fractionation	4 cell lines, fraction 39	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac39_eFT_2	Fractionation	4 cell lines, fraction 39	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac39_phi_1	Fractionation	4 cell lines, fraction 39	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac39_phi_2	Fractionation	4 cell lines, fraction 39	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac40_eFT_1	Fractionation	4 cell lines, fraction 40	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac40_eFT_2	Fractionation	4 cell lines, fraction 40	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac40_phi_1	Fractionation	4 cell lines, fraction 40	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac40_phi_2	Fractionation	4 cell lines, fraction 40	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac41_eFT_1	Fractionation	4 cell lines, fraction 41	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac41_eFT_2	Fractionation	4 cell lines, fraction 41	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac41_phi_1	Fractionation	4 cell lines, fraction 41	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac41_phi_2	Fractionation	4 cell lines, fraction 41	ΦSDM, 32 ms transient, 22 ms ion injection	15min

Table S-1 (7/7): Overview of acquired raw data

Raw file	Experiment	Sample	MS method	Gradient
20180823_QE3_nLC3_ChKe_SA_TMT_Frac42_eFT_1	Fractionation	4 cell lines, fraction 42	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac42_eFT_2	Fractionation	4 cell lines, fraction 42	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac42_phi_1	Fractionation	4 cell lines, fraction 42	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac42_phi_2	Fractionation	4 cell lines, fraction 42	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac43_eFT_1	Fractionation	4 cell lines, fraction 43	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac43_eFT_2	Fractionation	4 cell lines, fraction 43	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac43_phi_1	Fractionation	4 cell lines, fraction 43	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac43_phi_2	Fractionation	4 cell lines, fraction 43	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac44_eFT_1	Fractionation	4 cell lines, fraction 44	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac44_eFT_2	Fractionation	4 cell lines, fraction 44	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac44_phi_1	Fractionation	4 cell lines, fraction 44	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac44_phi_2	Fractionation	4 cell lines, fraction 44	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac45_eFT_1	Fractionation	4 cell lines, fraction 45	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac45_eFT_2	Fractionation	4 cell lines, fraction 45	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac45_phi_1	Fractionation	4 cell lines, fraction 45	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac45_phi_2	Fractionation	4 cell lines, fraction 45	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac46_eFT_1	Fractionation	4 cell lines, fraction 46	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac46_eFT_2	Fractionation	4 cell lines, fraction 46	eFT, 64 ms transient, 54 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac46_phi_1	Fractionation	4 cell lines, fraction 46	ΦSDM, 32 ms transient, 22 ms ion injection	15min
20180823_QE3_nLC3_ChKe_SA_TMT_Frac46_phi_2	Fractionation	4 cell lines, fraction 46	ΦSDM, 32 ms transient, 22 ms ion injection	15min