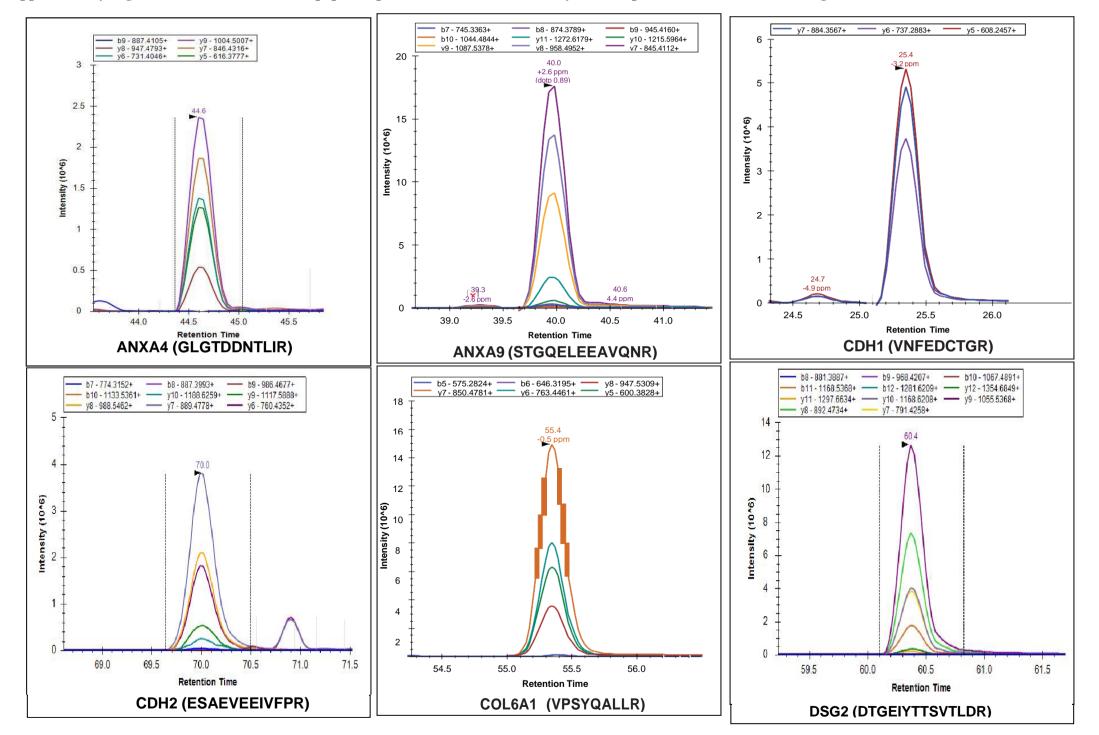
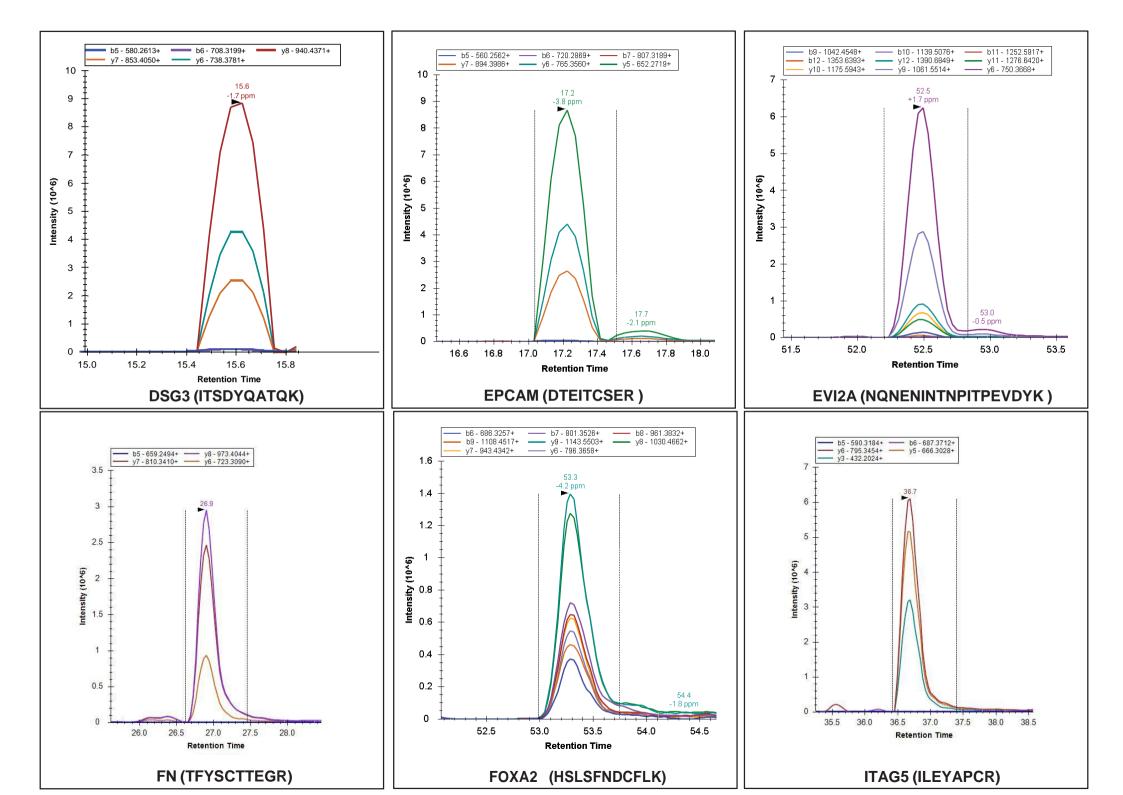
Jain *et al.*, 2021. Pan-cancer quantitation of epithelial-mesenchymal transition dynamics using parallel reaction monitoring-based targeted proteomics approach

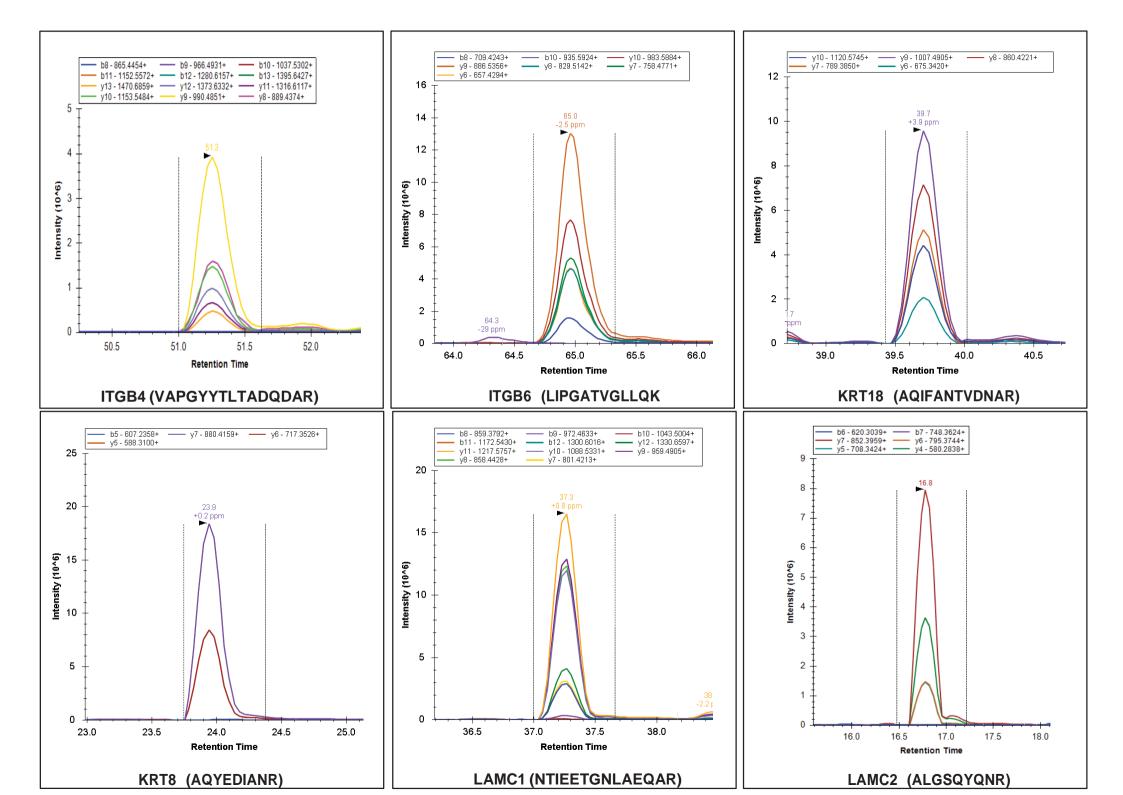
Biological process	ANXA4	ANXA9	CDH1	DSG2	DSG3	EPCAM	FOXA1	FOXA2	ITGB4	ITGB6	KRTS	MUC1	S100A14	SCNN1A	SDC1	XBP1 COL14A1	COL6A1	COL6A2	CDH2	EVI2A	FN1	LAMC1	LAMC2	SDC2	SNA11	SNA12	TWIST1	TWIST2 TIIRA1A	MIN	WIPF1	ZEB1	ZEB2
Gene Association (Epithelial/ Mesenchymal)	Ε	Е	Е	E	EE	E	E	Ε	Ε	EE	EE	E	E	Е	E	EN	M	M	М	M	M	/ M	M	М	М	Μ	M	M	M	Μ	М	М
Cell communication																																
Cell surface receptor signaling pathway																																
Positive regulation of cellular metabolic process																																
Cellular macromolecule metabolic process																																
Cell development																																
Cell differentiation																																
Tissue development																																
Epithelium development																																
Mesenchymal cell differentiation																																
Extracellular matrix organization																																
Cell migration																																
Cell-cell adhesion																																
Cell junction organization																																
Regulation of cell motility																																
Structural molecule activity																																
Cellular component organization or biogenesis																																
Programmed cell death																																
Regulation of apoptotic process																																
Regulation of transcription by RNA polymerase II																																
Positive regulation of gene expression																																

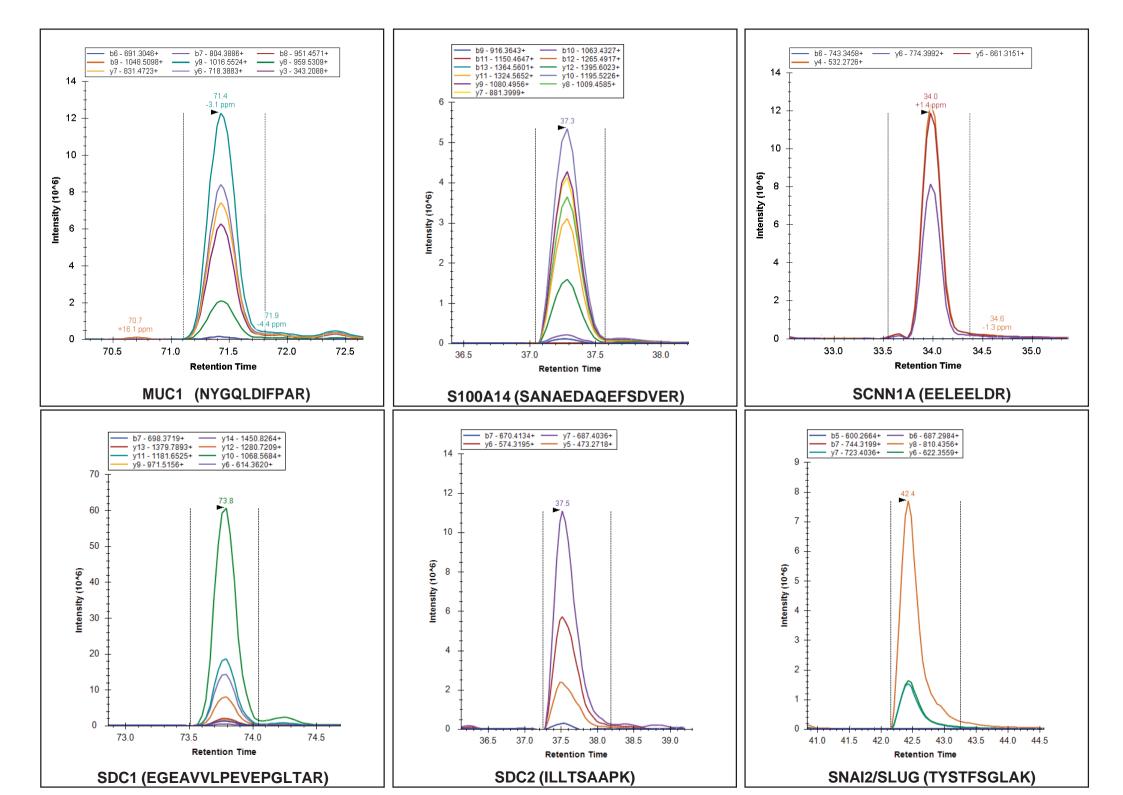
Supplementary Fig. 1 Gene ontology-based annotation of proteins used for PRM-based proteomics analysis curated from literature

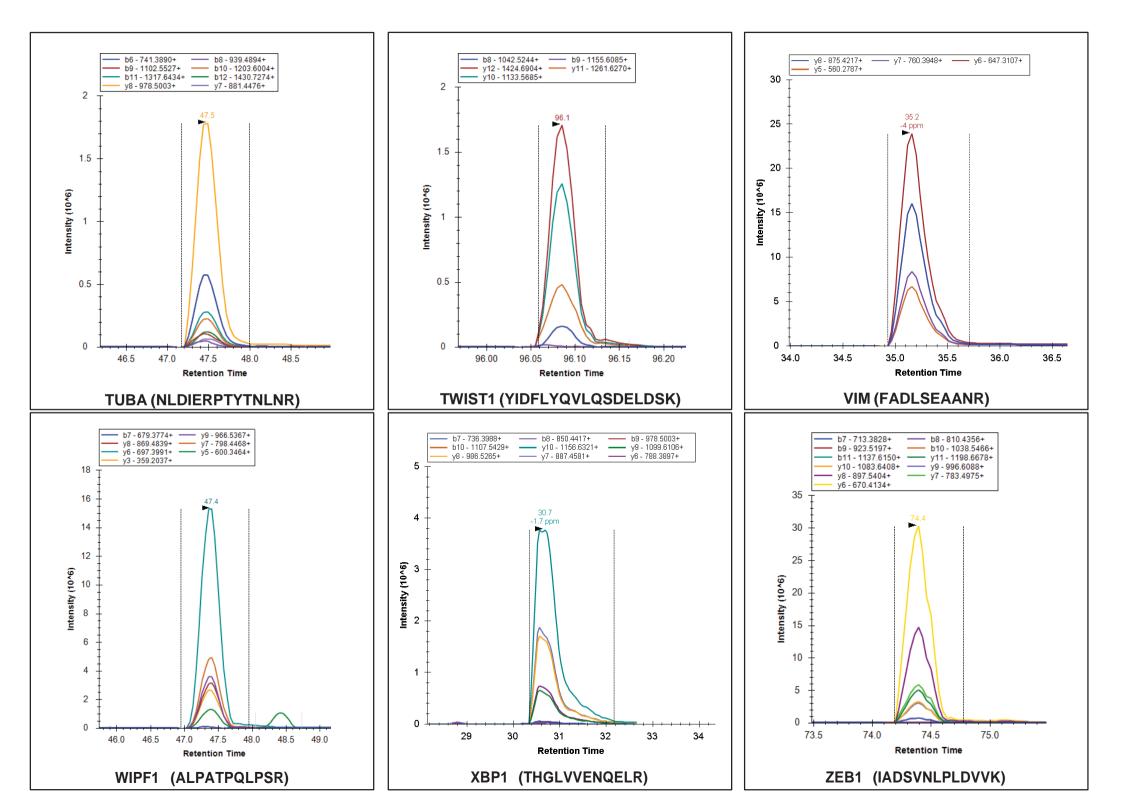
Supplementary Fig. 2 PRM transitions for 31 peptides precursors selected for analysis of 31 proteins mentioned in the figures across the cell lines

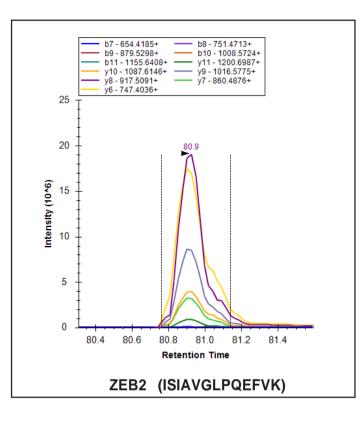




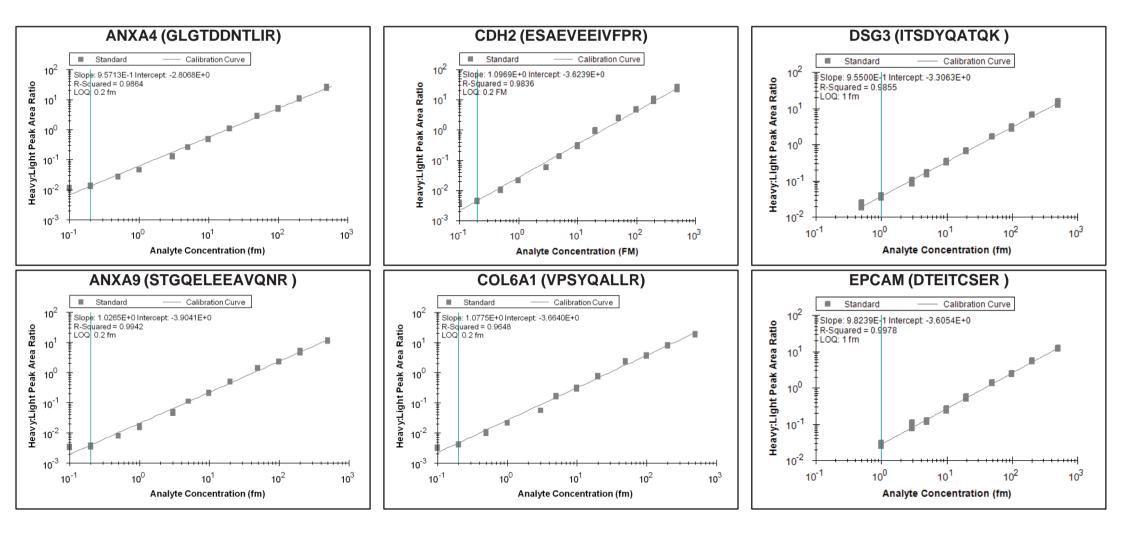


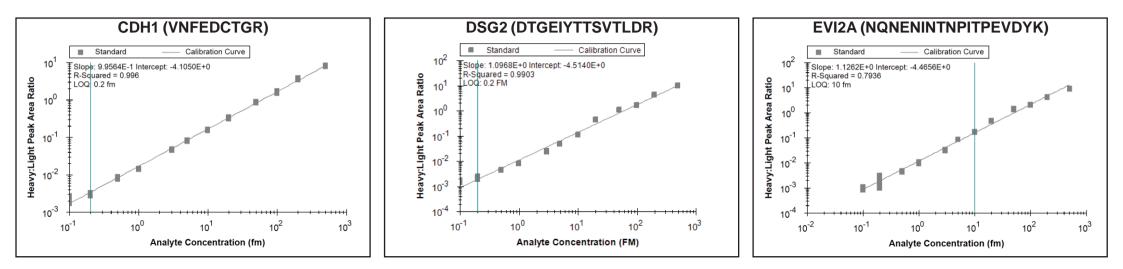


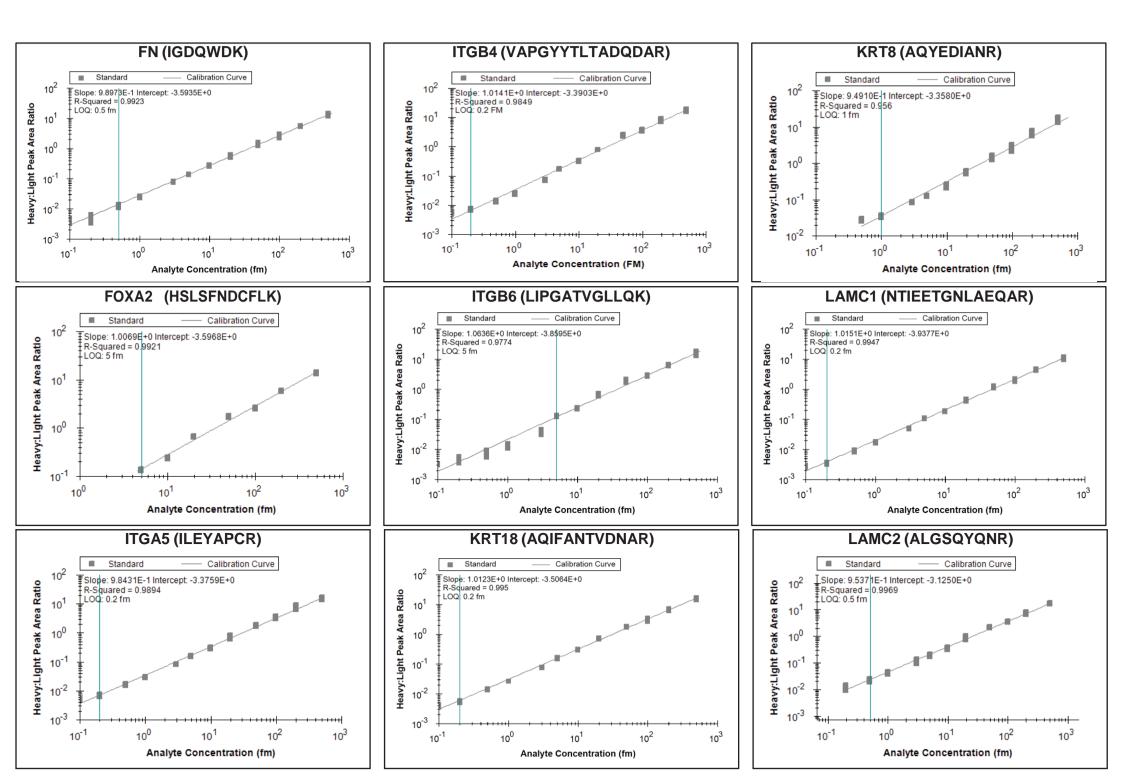


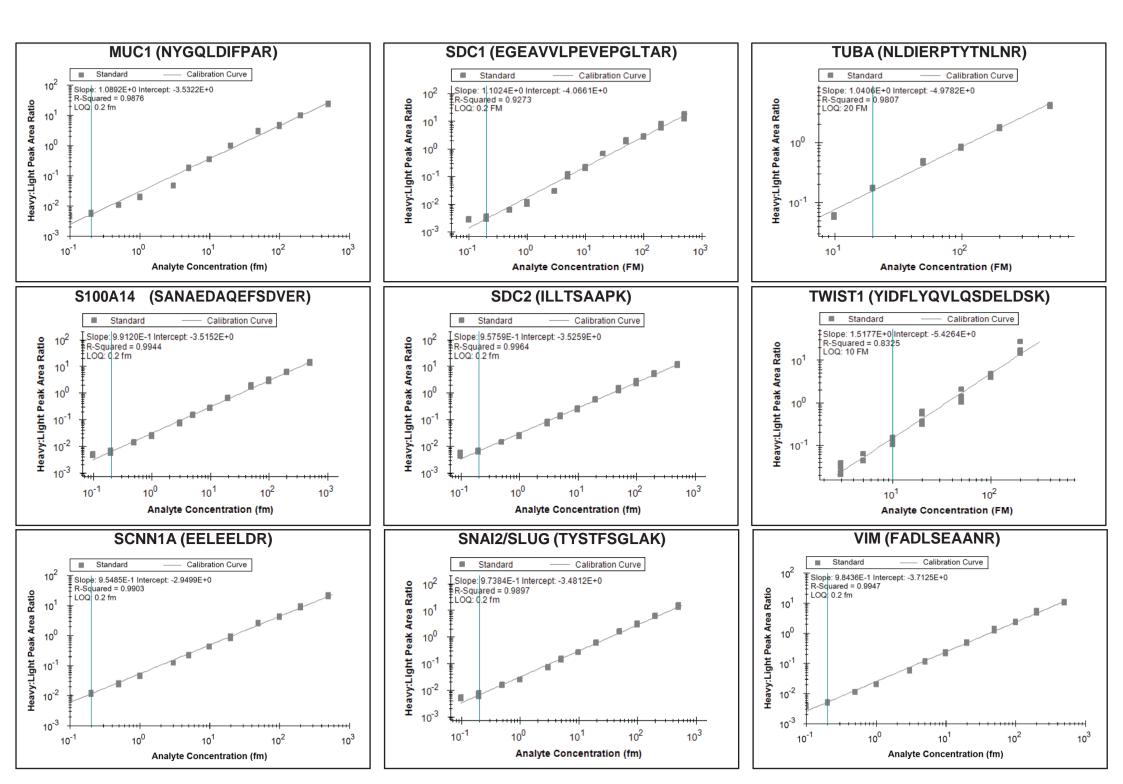


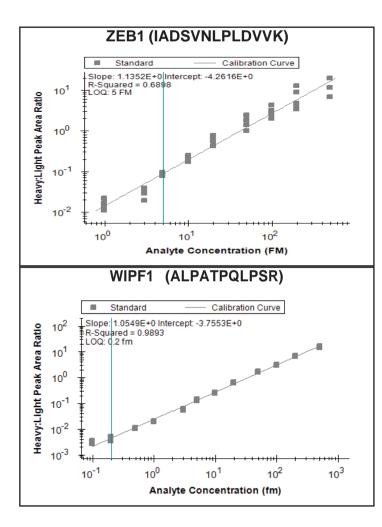
Supplementary Fig. 3 Calibration curve for 31 peptides precursors selected for monitoring protein expression across cell lines

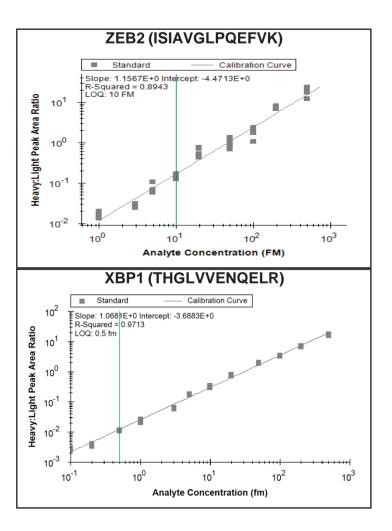




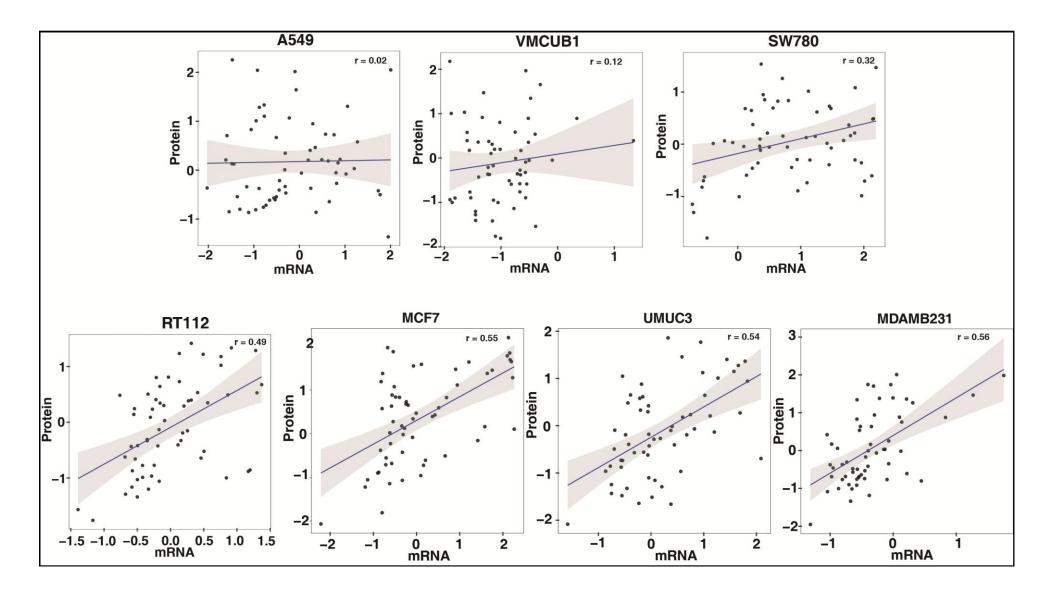








Supplementary Fig. 4 Co-relation plots for mRNA-based gene expression and protein expression for values for depicted cell lines based on transcriptomics and reversed phase protein array (RPPA) proteomics data from CCLE database



Supplementary Method 1: The overview of all the cell lines used in the study along with the tissue of origin and culture method

Cell line	Tissue of origin	Culture Conditions
VMUC1	BLADDER	Dulbecco's Modified Eagle Medium (DMEM) with fetal bovine serum (FBS) to a final concentration of 10% (adapted inhouse culture method)
RT112	BLADDER	Dulbecco's Modified Eagle Medium (DMEM) with fetal bovine serum (FBS) to a final concentration of 10% (adapted inhouse culture method)
SW780	BLADDER	Dulbecco's Modified Eagle Medium (DMEM) with fetal bovine serum (FBS) to a final concentration of 10% (adapted inhouse culture method)
J82	BLADDER	Dulbecco's Modified Eagle Medium (DMEM) with fetal bovine serum (FBS) to a final concentration of 10% (adapted inhouse culture method)
UMUC3	BLADDER	Dulbecco's Modified Eagle Medium (DMEM) with fetal bovine serum (FBS) to a final concentration of 10% (adapted inhouse culture method)
HeLa	CERVIX	Dulbecco's Modified Eagle Medium (DMEM) low glucose with fetal bovine serum (FBS) to a final concentration of 5% (adapted inhouse culture method)
SiHa	CERVIX	Eagle's Minimum Essential Medium with fetal bovine serum (FBS) to a final concentration of 10% (ATCC culture method)
CaL27	ORAL	Dulbecco's Modified Eagle Medium (DMEM) with fetal bovine serum (FBS) to a final concentration of 10% (adapted inhouse culture method)
FaDu	ORAL	Eagle's Minimum Essential Medium with fetal bovine serum (FBS) to a final concentration of 10% (ATCC culture method)
TE1	ESOPHAGEAL	Dulbecco's Modified Eagle Medium (DMEM) with fetal bovine serum (FBS) to a final concentration of 10% (adapted inhouse culture method)
H358	LUNG	RPMI-1640 Mediumwith 10% fetal bovine serum (FBS) to a final concentration of 10% (ATCC culture method)
A549	LUNG	Dulbecco's Modified Eagle Medium F-12 (DMEM F-12) with fetal bovine serum (FBS) to a final concentration of 10% (adapted inhouse culture method)
MCF7	BREAST	Dulbecco's Modified Eagle Medium (DMEM) low glucose with fetal bovine serum (FBS) to a final concentration of 5% (adapted inhouse culture method)
MDAMB231	BREAST	Dulbecco's Modified Eagle Medium (DMEM) with fetal bovine serum (FBS) to a final concentration of 10% (adapted inhouse culture method)
AGS	GASTRIC	F-12K Medium with with fetal bovine serum (FBS) to a final concentration of 10% (ATCC culture method)
G415	GALL BLADDER	Dulbecco's Modified Eagle Medium (DMEM) with fetal bovine serum (FBS) to a final concentration of 10% (adapted inhouse culture method)
OCUG1	GALL BLADDER	Dulbecco's Modified Eagle Medium (DMEM) with fetal bovine serum (FBS) to a final concentration of 10% (adapted inhouse culture method)
NOZ	GALL BLADDER	Dulbecco's Modified Eagle Medium (DMEM) high glucose and low glucose (1:1) with fetal bovine serum(FBS) to a final concentration of 10% (adapted inhouse culture method)