

**Supplementary Table.** Tissue distributions of ESTs encoding the indicated AMPK-related kinases. Abbreviation No., number

**BRSK1**

Tissue	No
Brain	8
Nervous system	6
Islets of Langerhans	3
Lung tumour	3
Heart	2
Other (epidermis, fetal eye, prostate)	
1 per tissue type.	

**BRSK2**

Tissue	No
Eye	14
Nervous system	13
Breast	10
Brain	8
Pooled germ cells	3
Var. tumour cells	7

**NUAK1**

Tissue	No
Brain	18
Blood/plasma	7
Liver/spleen	5
Eye	4
Uterus	4
Prostate	3
Var. tumour cells	9
Other (lung, head/neck, breast, adipose tissue, placenta, embryonic stem cells)	
less than 3 per tissue type.	

**NUAK2**

Tissue	No
Blood	18
Placenta	6
Brain	6
Ovary	6
Nervous system	3
Kidney	2
Colon	2
Eye	2
Var. tumour cells	10
Other (including muscle, head/neck, cervix, lung)	
1 per tissue type.	

**MELK**

Tissue	No.
Blood	7
Adenocarcinoma	7
Stomach	5
Germinal B cell	5
Germ cell tumour	4
Ascites	4
Other (cervix, eye, nervous system, intestine, heart, brain, uterus, placenta)	
less than 3 per tissue type.	

**QIK**

Tissue	No.
Eye	17
Liver/spleen	17
Blood	14
Brain	13
Breast	10
Intestine	11
Intestinal tumour	10
Melanocyte	9
Nervous system	9
Insulinoma	7
Lung	7
Placenta	7
Heart	6
Fibroblast	6
Kidney	5
Germ cell tumour	5
Other (prostate, uterus, testis, head, pancreas, bone, stomach)	
less than 5 per tissue type.	

**SIK**

Tissue	No.
Uterus	12
Adenocarcinoma	12
Intestine tumour	12
Brain tumour	11
Breast	9
Kidney	8
Melanocyte	7
Blood/plasma	7
Stomach	6
Brain	5
Fetal heart	5
Heart	5
Head/neck	5
Other (placenta, cervical tumour, thymus, liver, lung, prostate, marrow, eye, bladder tumour)	
less than 5 per tissue type.	

**QSK**

Tissue	No
Liver/spleen	25
Lung carcinoma	23
Brain	14
Head/neck	13
Nervous syst. tumour	11
Adenocarcinoma	10
Placenta	10
Melanocyte	9
Pancreas	8
Eye	7
Carcinoid	7
Blood	6
Kidney	6
Other (breast, intestine, testis, lung, uterus, heart)	
less than 6 per tissue type.	

**MARK1**

Tissue	No
Brain	17
Carcinoid	12
Breast	7
Lung tumour	6
Pancreas	5
Eye	4
Other (heart, head/neck, kidney, nervous system, placenta)	
less than 3 per tissue type.	

**MARK2**

Tissue	No
Head/neck	18
Brain	17
Intestine	13
Adenocarcinoma	11
Pancreas	9
Placenta	8
Eye	8
Blood	7
Melanoma	6
Other (prostate, kidney, lung, bone, uterus, thymus, nervous system)	
less than 6 per tissue type.	

**MARK3**

Tissue	No
Brain	29
Nervous system	26
Liver/spleen	23
Eye	21
Placenta	19
Lung	17
Colon	8
Stomach	7
Heart	6
Uterus	6
Kidney	6
Skeletal muscle	5
Cervix	5
Blood	5
Var. tumour cells	102
Other (prostate, testis, pancreas, lymph, marrow, breast)	
less than 5 per tissue type.	

**MARK4**

Tissue	No
Brain	13
Eye	13
Nervous tissue	11
Liver/spleen	7
Colon	4
Stomach	3
Breast	3
Prostate	3
Testis	2
Lung	2
Var. tumour cells	43