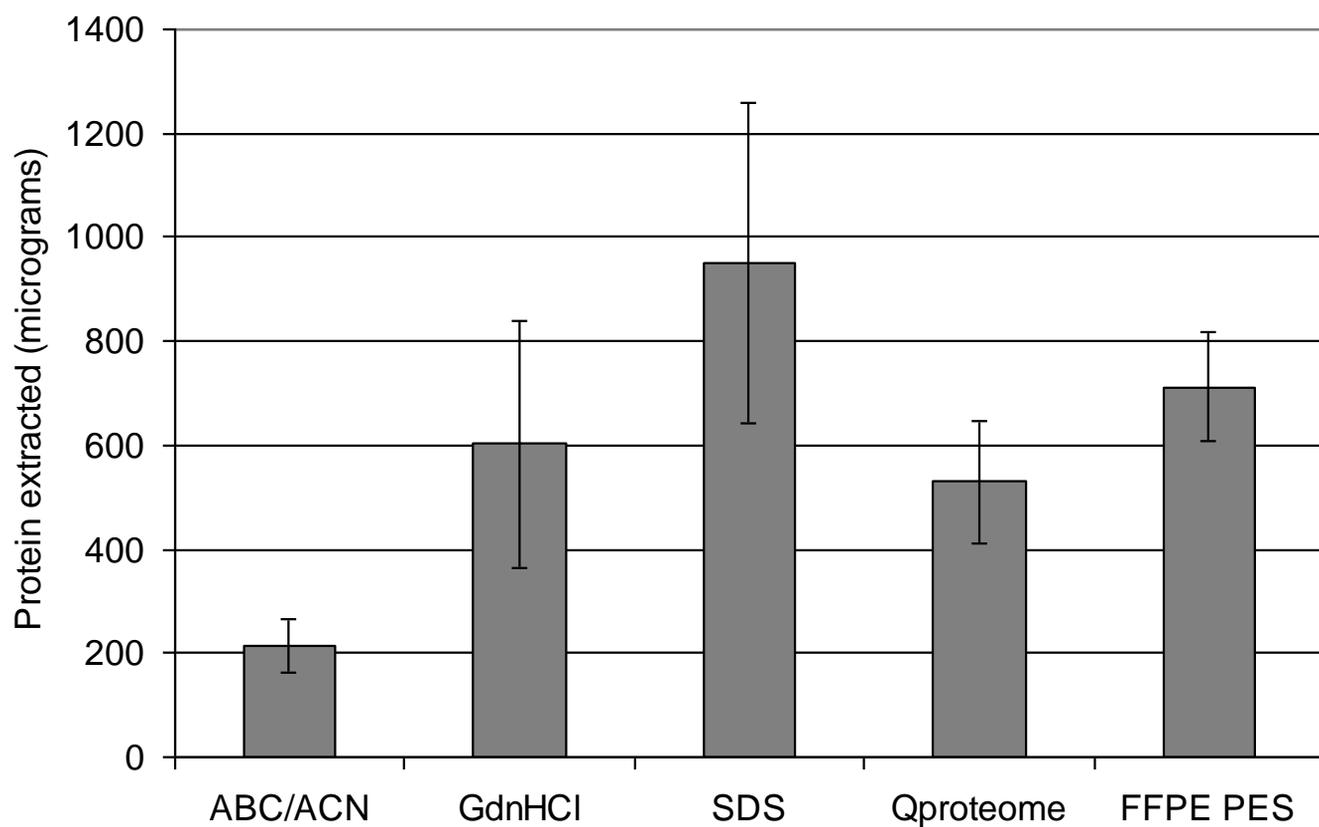
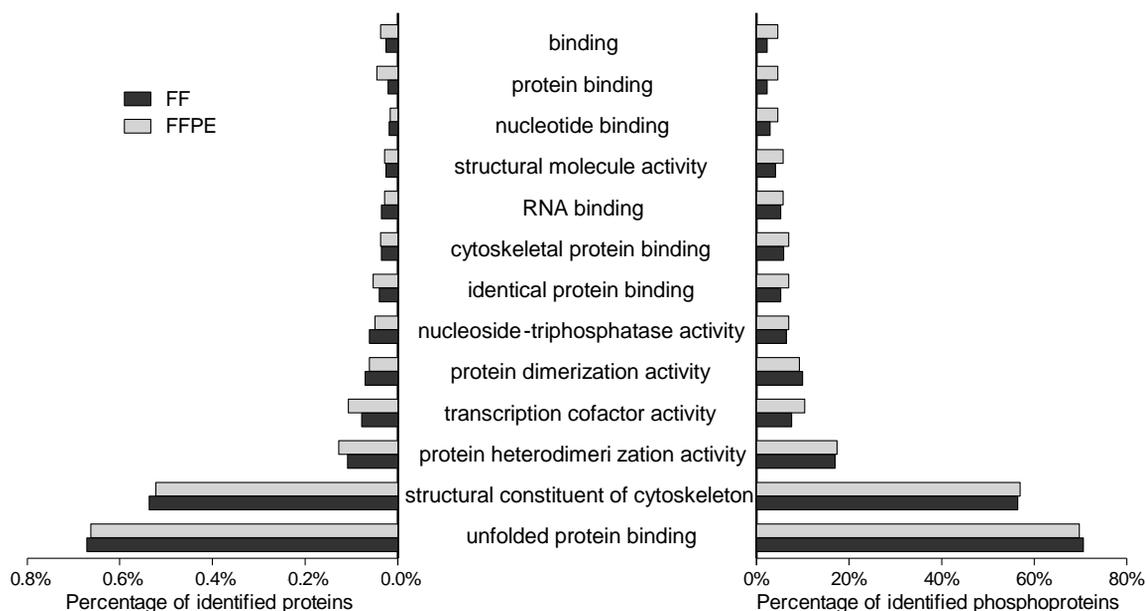


Supplemental Figure 1: Comparison of different protein extraction methods in FFPE samples. Each value was obtained by triplicate; error bars showing SD.

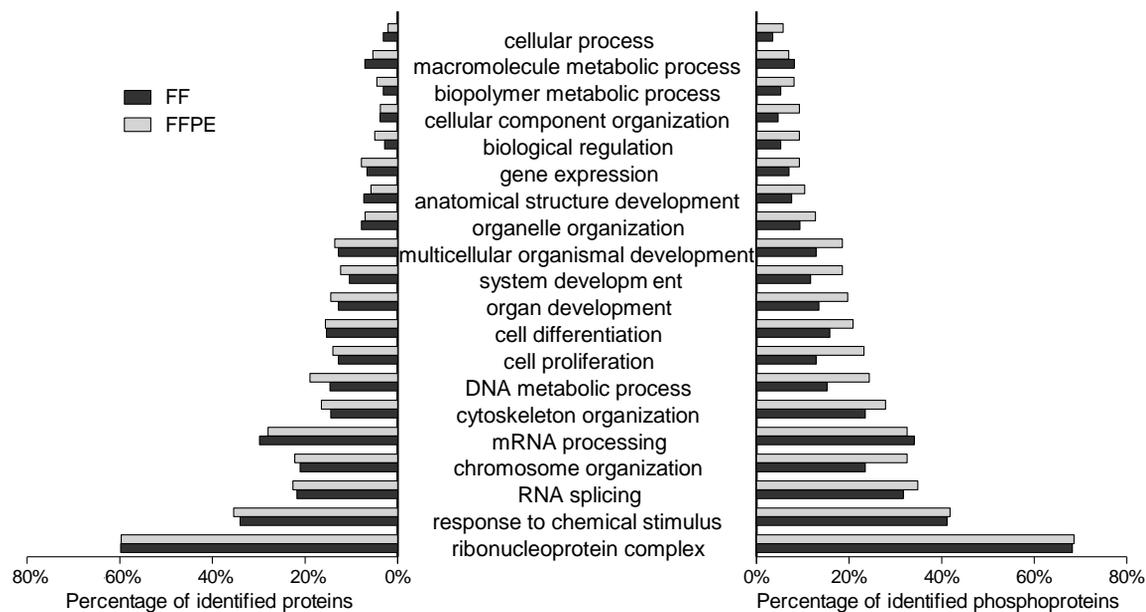


Supplemental Figure 2: Total protein extracted using different protein extraction methods in FFPE samples. Three samples were extracted. Each measurement was obtained by triplicate; error bars showing SD.

Molecular Function



Biological Process



Supplemental Figure 3: Percentage of identified proteins (left) and phosphoproteins (right) in FF and FFPE NSCLC samples assigned to the corresponding Molecular Function (upper panel) and Biological Process (lower panel) GO category.

PF01 pf proteins

ENTREZ_GENE_ID	Gene Name
12	serpin peptidase inhibitor, class A (alpha-1 antitrypsin, antitrypsin), member 3
213	albumin
280	arkynin 3, node of Ranier (arkynin G)
307	arkynin A1
330	apoferritin A1
346	Phi GDP dissociation inhibitor (GDI) alpha
444	aspartate beta hydroxylase
705	complement component 1, s subcomponent binding protein
821	calnexin
1021	casein (casein-associated protein), alpha 2 (neuronal plakophilin-related arm-repeat protein)
1780	dyskeratosis congenita 1, dyskerin
1787	dynin, axonemal, heavy chain 5
1825	desmoglein 3
1936	eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)
2023	endoxin 1, (alpha)
2263	fibronectin growth factor receptor 2
2265	fibronectin growth factor receptor 2
2265	glutathione S-transferase pi 1
3030	hemoglobin, alpha 2, hemoglobin, alpha 1
3042	hemoglobin, beta
3066	hepatoma-derived growth factor (high-mobility group protein 1-like)
3066	hepatoma-derived growth factor (high-mobility group protein 1-like)
3150	major histocompatibility complex, class I, H (psa200g)
3152	heterogeneous nuclear ribonucleoprotein U1 (cellular attachment factor A)
3300	heat shock protein 90Da alpha (cytosolic), class A member 2; heat shock protein 90Da alpha (cytosolic), class A member 1
3326	heat shock protein 90Da alpha (cytosolic), class B member 1
3494	immunoglobulin heavy constant alpha 2 (J chain marker)
3500	immunoglobulin heavy constant gamma 1 (J chain marker)
3514	similar to IC2G2659; immunoglobulin kappa constant; similar to Ig kappa chain V-I region PK102 precursor
3528	immunoglobulin lambda variable 2-11; immunoglobulin lambda constant 2 (Kain-Ou) marker; immunoglobulin lambda variable 1-44; immunoglobulin lambda constant 1 (Mig marker); immunoglobulin lambda variable 1-40; immunoglobulin lambda variable 3-21; immunoglobulin lambda locus; immunoglobulin lambda constant 3 (Pain-Ou) marker
3787	potassium voltage-gated channel, delayed-rectifier, subfamily 5, member 1
3860	karatin 13
4060	karatin
4062	myristoylated alanine-rich protein kinase C substrate
4262	macrophage migration inhibitory factor (glycosylation-inhibiting factor)
5265	serpin peptidase inhibitor, class A (alpha-1 antitrypsin, antitrypsin), member 1
5470	pedip1/psp1/somasein B (cyclotrophin B)
5509	protein kinase C, substrate 20A
5671	pregnancy specific beta-1-glycoprotein 3
6277	S100 calcium binding protein A6
6278	S100 calcium binding protein A7
6279	S100 calcium binding protein A8
6282	S100 calcium binding protein A9
6362	synuclein 1
8427	splicing factor, arginine/serine-rich 2
8431	splicing factor, arginine/serine-rich 6; similar to arginine/serine-rich splicing factor 6
8432	splicing factor, arginine/serine-rich 7, SRSF2
8607	survival of motor neuron 1, telomeric; survival of motor neuron 2, centromeric
8742	single-strand DNA binding protein 1
8878	transthylin
6949	Trichter Culture; Franceschetti syndrome 1
7018	transthylin
7112	trypsinogen
7167	TP1; psallogene; triosephosphate isomerase 1
7184	heat shock protein 90Da beta (Hsp90), member 1
7448	ubiquitin
8028	ADAM metalloprotease domain 12
8427	transthylin 2
8588	ubiquitin receptor, family B, subfamily A, member 2
8602	NUP143 nuclear pore ring (yeast)
8630	hydroxyindole O-Hase; dehydrogenase 6 homolog (mouse)
8662	histone cluster 1, H2af; histone cluster 1, H2af
8970	histone cluster 1, H2af
9002	spineless cell carcinoma antigen recognized by T cells
9174	structural maintenance of chromosomes 3
9665	eukaryotic translation initiation factor 6B
9726	similar to BCL2-associated transcription factor 1 (BTL; BCL2-associated transcription factor 1)
10710	protein disulfide isomerase family A, member 6
10250	serine/arginine repeat protein 1
10621	myosin, light chain 12A, regulatory, non-sarcomeric
10729	prostaglandin G synthase 2 (cyclooxygenase)
11534	heterogeneous nuclear ribonucleoprotein A-B
17912	myosin II
19286	protein tyrosine phosphatase, receptor type, D
20621	stathin
23242	cardiac beta-tubulin (mouse)
23254	serine/arginine repeat protein 2; hypothetical LOC10132779
24484	hypothetical protein 1
26986	transformer 2 alpha homolog (Drosophila)
31101	coiled-coil domain containing 51
51059	mitochondrial ribosomal protein L2
54530	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 11, 17, 36Da
55215	Foxp1; foxp1; foxp1; foxp1
55223	THAM1 domain containing 1
56265	subpopliteal A (H14) family, member 1
56997	Werner helicase interacting protein 1
57226	similar to transcription regulator protein, SAP30 binding protein
60078	eukaryotic elongation factor, serine/threonine (RNA-specific)
64426	suppressor of selective silencing 3 homolog (B. cereusae)
71810	RAM binding protein 3
73962	open associated antigen 16
75247	chromosome 8 open reading frame 103
79705	five finger protein 3B2
83523	Insulin (myo) 1 (or 4); monophosphatase 1
84491	Insulin domain containing 17
84901	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein
105246	Insulin domain containing 19
117248	Flax Homolog 2 (E. coli)
122242	retroviral-like family tyrosine receptor 2
139180	disc/Myosin kinase, kappa
140707	BR13 binding protein
15062	transcription factor 23
191575	non-metastatic cells 1, protein (NM23a) expressed in
192111	synaptic flix GTPase activating protein 1 homolog (rat)
203369	P antigen family, member 2 (prostate associated)
217865	similar to Eukaryotic translation initiation factor 6; eukaryotic translation initiation factor 5
28099	similar to Histone H4 nucleosome core protein 2; histone H4-B4; histone H4-B4; similar to HistH4c protein; similar to histone cluster 1, H4c; histone cluster 1, H4c
281341	myosin, light chain 6, adult, smooth muscle and non-muscle
281370	ubiquitin C, polyubiquitin, ubiquitin A-S2 residue ribosomal protein fusion product 1
282883	osteopontin D
283383	G protein-coupled receptor 133
284116	polymerase I and transcript release factor
287016	H2A histone family, member 2
307018	karatin 10
369017	karatin 5
392453	similar to keratin, light polypeptide, keratin, light polypeptide
403206	arterial gradient homolog 3 (Xenopus laevis)
440003	histone H3-B4
443461	glucose transporter type 1, mitochondrial
449584	glucuronidase 2, mitochondrial
491006	karatin 10
50895	mitochondrial ribosomal protein L35
512742	ribosomal protein L11; similar to ribosomal protein L11
514812	cytohesin 19
516615	actin, alpha 2, smooth muscle, aortic, actin, gamma 2, smooth muscle, enteric
52089	NHP2 ribonucleoprotein homolog (yeast)
523795	similar to elongation factor 1 alpha, similar to eukaryotic translation elongation factor 1 alpha 1; eukaryotic translation elongation factor 1 alpha 1
540229	tubulin, beta 4
66181	PDGFA associated protein 1; similar to PDGFA associated protein 1
667979	similar to Acidic leucine-rich nuclear phosphoprotein 32 family member B (FLNAP2 protein) (Silver-stainable protein SSP29) (Acidic leucine-rich nuclear phosphoprotein 32 family, member B
691705	eukaryotic translation elongation factor 1 beta 2; eukaryotic translation elongation factor 1 beta 2-like
693563	heat shock 27kDa protein-like 2; psallogene; heat shock 27kDa protein 1
729992	similar to heat shock 27kD protein binding protein; suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)
10003668	heterogeneous nuclear ribonucleoprotein C
10003669	ubiquitin A
10003700	sarcomeremal associated protein-3
10003747	trypsin
100034361	similar to microtubule-associated protein 1A, microtubule-associated protein 1B
101133042	glyoxalase-3-phosphate dehydrogenase-like 6; hypothetical protein LOC10133542; glyceraldehyde-3-phosphate dehydrogenase

FF01 phosphorylated proteins

ENTREZ_GENE_ID	Gene Name
288	ankyrin 3, node of Ranvier (ankyrin G)
1501	catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein)
1736	dyskeratosis congenita 1, dyskerin
1767	dynein, axonemal, heavy chain 5
1936	eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)
2263	fibroblast growth factor receptor 2
3068	hepatoma-derived growth factor (high-mobility group protein 1-like)
3326	heat shock protein 90kDa alpha (cytosolic), class B member 1
3787	potassium voltage-gated channel, delayed-rectifier, subfamily S, member 1
5671	pregnancy specific beta-1-glycoprotein 3
6280	S100 calcium binding protein A9
6427	splicing factor, arginine/serine-rich 2
6431	splicing factor, arginine/serine-rich 6; similar to arginine/serine-rich splicing factor 6
6432	splicing factor, arginine/serine-rich 7, 35kDa
6607	survival of motor neuron 1, telomeric; survival of motor neuron 2, centromeric
8038	ADAM metallopeptidase domain 12
8590	olfactory receptor, family 6, subfamily A, member 2
8630	hydroxysteroid (17-beta) dehydrogenase 6 homolog (mouse)
9126	structural maintenance of chromosomes 3
9669	eukaryotic translation initiation factor 5B
9774	similar to Bcl-2-associated transcription factor 1 (Btf); BCL2-associated transcription factor 1
10250	serine/arginine repetitive matrix 1
10728	prostaglandin E synthase 3 (cytosolic)
17912	myosin IB
20621	stannin
23242	cordon-bleu homolog (mouse)
23524	serine/arginine repetitive matrix 2; hypothetical LOC100132779
24848	tryptophan hydroxylase 1
29896	transformer 2 alpha homolog (Drosophila)
51069	mitochondrial ribosomal protein L2
55215	Fanconi anemia, complementation group I
55623	THUMP domain containing 1
56265	carboxypeptidase X (M14 family), member 1
56897	Werner helicase interacting protein 1
60678	eukaryotic elongation factor, selenocysteine-tRNA-specific
79582	sperm associated antigen 16
79747	chromosome 6 open reading frame 103
79750	zinc finger protein 385D
83523	Inositol (myo)-1(or 4)-monophosphatase 1
139189	diacylglycerol kinase, kappa
140707	BRI3 binding protein
150921	transcription factor 23
283383	G protein-coupled receptor 133
533285	ribosomal protein, large, P1
645181	PDGFA associated protein 1; similar to PDGFA associated protein 1
653553	heat shock 27kDa protein-like 2 pseudogene; heat shock 27kDa protein 1
729992	similar to heat shock 70kD protein binding protein; suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)

PF12 g1 proteins

ENTREZ_GENE_ID Gene Name
12 serpin peptidase inhibitor, class A (alpha-1 antitrypsin, antitrypsin), member 3
213 albumin
289 arkynin 3, node of Ranvier (arkynin-3)
302 arnixin A2 pseudogene 3, arnixin A2, arnixin A2 pseudogene 1
308 arnixin A5
338 apolipoprotein A1
396 Rho GDP dissociation inhibitor (GDI) alpha
705 complement component 1, s subcomponent, binding protein
712 complement component 1, q subcomponent, A chain
735 complement component 3
800 calcitonin 1
822 capping protein (actin filament), gelolin-like
1191 clastarin
1277 collagen, type I, alpha 1
1293 collagen, type VI, alpha 3
1462 vitronectin
1465 catenin (cadherin-associated protein), alpha 1, 100kDa
1791 deoxyribonuclease, terminal
1926 eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)
2017 cortactin
2023 ezrin 1 (alpha)
2162 fibin 1
2202 EGF-containing fibulin-like extracellular matrix protein 1
2263 fibroblast growth factor receptor 2
2335 fibronectin 1
2508 ferritin, heavy polypeptide 1; ferritin, heavy polypeptide-like 1b; similar to ferritin, heavy polypeptide 1; ferritin, heavy polypeptide-like 3 pseudogene
2565 fibronectin 5, nonmuscle g11
3039 hemoglobin, alpha 2; hemoglobin, alpha 1
3043 hemoglobin, beta
3068 heparanase-derived growth factor (high-mobility group protein 1-like)
3193 heterogenous nuclear ribonucleoprotein U (snail-like attachment factor A)
3320 heat shock protein 90Da alpha (cytosolic), class A member 2; heat shock protein 90Da alpha (cytosolic), class A member 1
3328 heat shock protein 90Da alpha (cytosolic), class B member 1
3371 hemolectin C
3484 immunoglobulin heavy constant alpha 2 (A2a marker)
3500 immunoglobulin heavy constant gamma 1 (G1m marker); immunoglobulin heavy constant mu; immunoglobulin heavy variable 3-7; immunoglobulin heavy constant gamma 3 (G3m marker); immunoglobulin heavy variable 3-11 (gene/pseudogene); immunoglobulin heavy variable 4-31; immunoglobulin heavy locus
3538 immunoglobulin lambda variable 2-11; immunoglobulin lambda constant 2 (Kern-Ca marker); immunoglobulin lambda variable 1-4d; immunoglobulin lambda constant 1 (Mq marker); immunoglobulin lambda variable 1-4c; immunoglobulin lambda variable 2-21; immunoglobulin lambda locus; immunoglobulin lambda constant 3 (Kern-Ca marker)
3848 keratin 9
3853 keratin 5
3927 LIM and SH3 protein 1
3930 lactate dehydrogenase A
4002 lactacin
4060 laminin
4238 microtubule-associated protein 4
4267 microtubule migration inhibitory factor (glycylation-inhibiting factor)
4627 myosin, heavy chain 9, non-muscle
4678 nucleosome assembly protein 1-like 4
4678 nuclear autoantigenic sperm protein (histone-binding)
4730 sargol 2
5007 myosin binding protein
5234 protein 4-hydroxylase, beta polypeptide
5234 phosphotyrosine kinase (1 mouse)
5268 phosphotyrosine kinase, alpha 2 (bcr)
5363 serpin peptidase inhibitor, class A (alpha-1 antitrypsin, antitrypsin), member 1
5510 protein phosphatase 1, regulatory subunit 7
5575 protein kinase, cAMP-dependent, regulatory, type II, delta
6181 ribosomal protein, large, P2 pseudogene 3, ribosomal protein, large, P2
6378 ataxin 1
6382 syndecin 1
6420 splicing factor, arginine/leucine-rich 4
6646 superoxide dismutase 2, mitochondrial
6876 transgelin
6945 Traucher Collins-Franceschetti syndrome 1
7042 transforming growth factor, beta-induced, 68kDa
7112 thyroglobulin
7167 TP51 pseudogene; triosephosphate isomerase 1
7326 splicing factor 1
8091 high mobility group AT-hook 2
8338 histone cluster 2, H2c
8427 transgelin 2
8672 PCD and LIM domain 4
8692 NCP1A nuclear protein homolog (yeast)
9648 amyloid beta (A4) precursor protein-binding, family A, member 3
10056 dynamin 1-like
10262 aminoguanine repetitive matrix 1
10726 protogalactin E synthase 3 (cytosolic)
10857 angiotensin receptor, membrane component 1
12317 calcitriol
12626 cyclic dinucleoside transferase, conductance regulator homolog
16164 fibroblast 13 receptor, alpha 1
16763 bcl2l1
20020 S100 calcium binding protein A6 (calyculin)
20226 seryl-aminacyl-tRNA synthetase
20626 Son DNA binding protein
22919 microtubule-associated protein, RPIIEB family, member 1
22949 protagalinin inducible 1
23264 seryl-arginine repetitive matrix 2; hypothetical LOC100132779
27328 HVI 1, Tat specific factor 1
51760 lysine (K)-specific diaminopyase 3B
51862 arabinoside-sensitive cation channel 6, neuronal
56425 KAL1P3
56625 TRAF6 domain containing 1
55771 ptkshc rich 11
59195 fibronin domain containing 5 (endokamrin reticulum), mutual homolog (mouse)
67398 signal recognition particle receptor (docking protein)
79928 sperm-associated antigen 16
81748 pikatin 3 (T-lysoform)
83623 histidin lyase for 4-monophosphatase 1
83962 cortactin binding protein-2
84700 myosin XVIII
84706 albumin, alpha 1c
84817 fibronectin domain containing 17
91124 transformer 2 alpha homolog (Drosophila)
110750 chromosome segregation 1-like (S. cerevisiae)
117496 Flt1 homolog 3 (E. coli)
122589 ribosomal protein, large, P0 pseudogene 2; ribosomal protein, large, P0 pseudogene 3; ribosomal protein, large, P0 pseudogene 6; ribosomal protein, large, P0 pseudogene 9; similar to histone H4 nucleosome CC379-PC; germinal histone H4-like, histone H4-like, similar to Histone H4-like, similar to histone cluster 1, Hg; histone H4
282001 protein
281341 myosin, light chain 6, skeletal smooth muscle and non-muscle
281370 ubiquitin C, polyubiquitin, ubiquitin A-S2 residue, ribosomal protein fusion product 1
281386 serpin peptidase inhibitor, class F (alpha2-antiplasmin; pigment epithelium derived factor, member 1)
281212 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide
284119 polymerase I and transcript release factor
327875 ATP synthase, H₊-transporting, mitochondrial F1 complex, beta polypeptide
332443 similar to ferritin, light polypeptide, ferritin, light polypeptide
400760 hypothetical gene supported by AF214292; NM_026347; heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)
432305 anterior gradient homolog 3 (Vempea locus)
440093 histone H3-like
461108 keratin 19
481458 mectan
506299 ribosomal protein S16
514812 cytochrome 19
531795 similar to elongation factor 1 alpha, similar to eukaryotic translation elongation factor 1 alpha 1; eukaryotic translation elongation factor 1 alpha 1
53437 heterogenous nuclear ribonucleoprotein A1 like 2, similar to heterogenous nuclear ribonucleoprotein A1 (RNA-associating protein) (single-strand (RNA-binding protein) (vRNP core protein); similar to hCG15678; heterogenous nuclear ribonucleoprotein A1
645181 PDQFA associated protein 1, similar to PDQFA associated protein 1
647026 eukaryotic translation elongation factor 1 beta 2; eukaryotic translation elongation factor 1 beta 2; eukaryotic translation elongation factor 1 beta 2-like
652346 promyelocytic leukemia, similar to promyelocytic leukemia protein isoform 1
652652 heat shock 70kDa protein-like 2 pseudogene; heat shock 70kDa protein 1
665113 TRAF2 and NCK, interacting kinase
709662 keratin 13, keratin 13 pseudogene 3
729686 nucleophosmin 1 (nucleolar phosphoprotein B23, numanin) pseudogene 21; hypothetical LOC100131044; similar to nucleophosmin 1, nucleophosmin (nucleolar phosphoprotein B23, numanin)
729992 similar to heat shock 70kDa protein binding protein; suppression of variegation 13 (color conversion) (Phv1) (transcript protein)
782091 actin, gamma 1, similar to Actin, cytoplasmic 2 (beta-actin-2), actin, beta
786898 similar to CTF-binding nuclear protein Ran (CTF-binding Ran) (Ran-like protein TC4) (Androgen receptor-associated protein 24); RAN, member RAS oncogene family
100000665 albumin A
100000298 transcription protein
100047609 eukaryotic translation initiation factor 3, subunit C; similar to Eukaryotic translation initiation factor 3, subunit B
10112342 glyoxaldehyde-3-phosphate dehydrogenase-like 8; hypothetical protein LOC100133542; glyoxaldehyde-3-phosphate dehydrogenase
101193752 ribosomal protein S27a, similar to ubiquitin and ribosomal protein S27a

FF02 phosphorylated proteins

ENTREZ_GENE_ID	Gene Name
288	ankyrin 3, node of Ranvier (ankyrin G)
800	caldesmon 1
1191	clusterin
1495	catenin (cadherin-associated protein), alpha 1, 102kDa
1936	eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)
2017	cortactin
2263	fibroblast growth factor receptor 2
2508	ferritin, heavy polypeptide 1; ferritin, heavy polypeptide-like 16; similar to ferritin, heavy polypeptide 1; ferritin, heavy polypeptide-like 3 pseudogene
3068	hepatoma-derived growth factor (high-mobility group protein 1-like)
3326	heat shock protein 90kDa alpha (cytosolic), class B member 1
4627	myosin, heavy chain 9, non-muscle
4676	nucleosome assembly protein 1-like 4
4735	septin 2
5007	oxysterol binding protein
5256	phosphorylase kinase, alpha 2 (liver)
5576	protein kinase, cAMP-dependent, regulatory, type II, alpha
6429	splicing factor, arginine/serine-rich 4
7112	thymopoietin
7536	splicing factor 1
8091	high mobility group AT-hook 2
8572	PDZ and LIM domain 4
10250	serine/arginine repetitive matrix 1
10728	prostaglandin E synthase 3 (cytosolic)
10857	progesterone receptor membrane component 1
12638	cystic fibrosis transmembrane conductance regulator homolog
16164	interleukin 13 receptor, alpha 1
23524	serine/arginine repetitive matrix 2; hypothetical LOC100132779
27336	HIV-1 Tat specific factor 1
51780	lysine (K)-specific demethylase 3B
51802	amiloride-sensitive cation channel 5, intestinal
55623	THUMP domain containing 1
79582	sperm associated antigen 16
83523	Inositol (myo)-1(or 4)-monophosphatase 1
83992	cortactin binding protein 2
101214	transformer 2 alpha homolog (Drosophila)
280901	prolactin
534391	heterogeneous nuclear ribonucleoprotein A1-like 2; similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-destabilizing protein)
645181	PDGFA associated protein 1; similar to PDGFA associated protein 1
647030	eukaryotic translation elongation factor 1 beta 2; eukaryotic translation elongation factor 1 beta 2-like
653553	heat shock 27kDa protein-like 2 pseudogene; heat shock 27kDa protein 1
729992	similar to heat shock 70kD protein binding protein; suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)
100047696	eukaryotic translation initiation factor 3, subunit C; similar to Eukaryotic translation initiation factor 3, subunit 8

PF03 proteins

ENTREZ_GENE_ID	Gene Name
12	serpin peptidase inhibitor, class A (alpha-1 antitrypsin, antitrysin), member 3
213	AluA1
280	serpin 3, node of Ranier (serpin G)
301	serpin A1
309	serpin A5
311	serpin peptidase activating factor 1
330	apolipoprotein A1
348	the GDP dissociation inhibitor (GDI) alpha
444	aspartate beta hydroxylase
708	component component 1, 1 subcomponent binding protein
851	calnexin
852	capping protein (actin filament), gelsolin-like
1072	cofilin 1 (non-muscle)
1122	chondrolectin-like fibin coagulant protein 2
1192	chondria intracellular channel 1
1225	cofilin, type 1, alpha 3
1476	cystatin B (catalin B)
1738	dyskeratosis congenita 1, dyx1c1
1826	eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)
1963	eukaryotic translation initiation factor 5
2071	eozinotin
2023	endocan 1, (alpha)
2127	coagulation factor VIII, procoagulant component
2288	FK506 binding protein 4, FK506
2745	glucanase (beta-D-glucosidase)
2950	glutathione S-transferase pi 1
3020	hemoglobin, alpha 2, hemoglobin, alpha 1
3043	hemoglobin, beta
3068	hepatoma-derived growth factor (high-mobility group protein 1-like)
3094	histidine triad nucleotide binding protein 1
3107	major histocompatibility complex, class I, C, major histocompatibility complex, class I, B
3192	heterogeneous nuclear ribonucleoprotein L1 (scaffold attachment factor A)
3205	heat shock protein 90A2 alpha (cytosolic), class A member 2, heat shock protein 90A2 alpha (cytosolic), class A member 1
3326	heat shock protein 90A2 alpha (cytosolic), class B member 1
3503	immunoglobulin heavy constant gamma 1 (D11) marker; immunoglobulin heavy constant mu; immunoglobulin heavy variable 3-11 (germline-derived); immunoglobulin heavy variable 4-31; immunoglobulin heavy chain 3514 similar to HC22659; immunoglobulin kappa constant, similar to Ig kappa chain V1 region HK102 precursor
3538	immunoglobulin lambda variable 2-11; immunoglobulin lambda constant 2 (Kmu-C2) marker; immunoglobulin lambda variable 1-44; immunoglobulin lambda constant 1 (Mq) marker; immunoglobulin lambda variable 5-21; immunoglobulin lambda locus; immunoglobulin lambda constant 3 (Kmu-C3) marker
3545	lactate dehydrogenase B
3698	lactin, galactoside-binding, soluble 1
4262	macrophage migration inhibitory factor (glycosylation-inhibiting factor)
4676	nucleosome assembly protein 1-like 4
4677	nuclear autoantigenic sperm protein (histone-binding)
4697	nucleolin
4728	sepin 2
5034	profilin 4-hydroxylase, beta polypeptide
5037	phosphatidylinositol-3-OH kinase binding protein 1
5260	serpin peptidase inhibitor, class A (alpha-1 antitrypsin, antitrysin), member 1
5320	similar to Fibronectin (FN) (Fibronectin monomer protein 1) (FNC1), plectin 1, intermediate filament binding protein 500kDa
5470	poly(ADP-ribose) polymerase B (cystophan B)
6157	pregnenylenol-specific lipase 1-pseudogene 3
6181	ribosomal protein, large, P2 pseudogene 3; ribosomal protein, large, P2
6277	ST100 calcium binding protein A6
6280	ST100 calcium binding protein A9
6310	ataxin 1
6607	survival of motor neuron 1, telomeric, survival of motor neuron 2, centromeric
6626	small nuclear ribonucleoprotein polypeptide E-like 1; small nuclear ribonucleoprotein polypeptide E; similar to HC022490
6742	single-stranded DNA binding protein 1
6749	structure specific recognition protein 1
6832	regulator of cartilage 1, 2-like 1 (S. cerevisiae)
6876	transglutinin
6943	Tascher-Cullis-Franceschetti syndrome 1
7070	Thy-1 cell surface antigen
7167	TPI1 pseudogene, triosephosphate isomerase 1
7358	heat shock protein 90A2 beta (Grp94), member 1
7448	thrombin
7532	tyrosine 3-monooxygenase/tyrosophan 5-monooxygenase activation protein, gamma polypeptide
8029	high mobility group A1/box 2
8407	transglutinin 2
8602	NCF4 nuclear protein homolog (yeast)
8630	hydroxymethyl (17-keto) dehydrogenase H homolog (mouse)
9002	ovarian cell carcinoma antigen recognized by T cells
9126	structural maintenance of chromosomes 3
9564	SEC23 vesicle trafficking protein homolog B (S. cerevisiae)
9666	eukaryotic translation initiation factor 5B
9908	GTPase activating protein (GAP) domain binding protein 2
10250	serine/threonine repeat matrix 1
10561	arterial glutathione homing 2 (Vespa) locus
10627	myosin, light chain 12A, regulatory, non-sarcomeric
10726	prostaglandin synthase 3 (cyclooxygenase)
12345	capping protein (actin filament) muscle 2-like, beta
22070	microtubule-associated protein, RP/EB family, member 1
26020	tocin A remaining protein 1
27130	invarin
26966	transformer 2 alpha homolog (Drosophila)
51019	coiled-coil domain containing 53
51026	nuclear protein binding 36 homolog (S. cerevisiae)
54006	DEAF1 (Asp-Glu-Alu-His) box polypeptide 29
55623	TRAF7 domain containing 1
58997	Werner helixes interacting protein 1
67453	signal sequence receptor, gamma
70020	predicted gene 11843, signal-sequence-binding enzyme E2 variant 2
73723	ST5 domain binding glutamate acid-rich protein-like 3
75258	heterogeneous nuclear ribonucleoprotein D
79726	10D repeat domain 10
80777	cytochrome b5 type B (outer mitochondrial membrane)
83623	histidinol (myo) for 4-monoaminotransferase 1
83768	dipalmitoylphosphatidylcholine 2
84817	ribosomal domain containing 17
89790	slatic acid binding Ig-like lectin 10
89862	katanin protein CD2-like 3
122260	ribosomal protein, large, PO pseudogene 2; ribosomal protein, large, PO pseudogene 3; ribosomal protein, large, PO pseudogene 6; ribosomal protein, large, PO
142077	BR13 binding protein
21846	the finger, C2H2-type containing
217954	luciferase rich repeat containing 37A
241113	protein kinase, cAMP-activated, gamma 3 non-catalytic subunit
253950	GTPase activating Rap/RacGAP domain-like 1
256091	similar to Histone H4 nucleosome core protein CC0379-PC; germinal histone H4-like; Histone H4-like; similar to HistHc protein; similar to histone cluster 1, H4; Histone H4
261341	myosin, light chain 6, skeletal smooth muscle and non-muscle
261370	aliquasin C, polyubiquitin, ubiquitin N-63 residue ribosomal protein fusion product 1
262125	tyrosine 3-monooxygenase/tyrosophan 5-monooxygenase activation protein, epsilon polypeptide
262776	retinoid-dependent action channel 3
282863	calnexin-D
286887	keratin KC
287016	KCA histone family, member 2
317075	Rice1 (Fz-3) domain containing
326568	ribosomal protein S3
330051	keratin 8 pseudogene 9; similar to keratin 8; keratin 8
362437	similar to keratin, light polypeptide; keratin, light polypeptide
371463	beta-actin-4
443481	glucose transporter type 1
461108	keratin 10
512745	ribosomal protein L11; similar to ribosomal protein L11
524526	nucleoporin 133kDa, actin, alpha 1, skeletal muscle
527792	similar to elongation factor 1, alpha, similar to eukaryotic translation elongation factor 1 alpha 1; eukaryotic translation elongation factor 1 alpha 1
532061	ribosomal protein, large, P1
649793	similar to acidic leucine-rich nuclear phosphoprotein 32 family member B (PHARP2 protein) (Silver-stainable protein B5P9) (Acidic protein rich in leucines); acidic (leucine-rich) nuclear phosphoprotein 32 family, member B
647030	eukaryotic translation elongation factor 1 beta 2; eukaryotic translation elongation factor 1 beta 2-like
652652	heat shock 70kDa protein-like 2 pseudogene; heat shock 70kDa protein 1
709690	ST100 calcium binding protein A11; ST100 calcium binding protein A11 pseudogene
720662	keratin 17; keratin 17 pseudogene 3
720992	similar to heat shock 70kD protein binding protein; suppression of tumorigenicity 13 (colon carcinoma) (p5070 interacting protein)
731224	H3 histone family 3k; similar to histone 3.5k; similar to histone H3.5; similar to Histone H3.5; CG026494
10003668	heterogeneous nuclear ribonucleoprotein C
10003691	similar to microtubule-associated protein 1A; microtubule-associated protein 1A; microtubule-associated protein 1B
10004081	heat shock protein 1 (chaperone 10); predicted gene, EG02438; heat shock protein 1 (chaperone 10), related sequence 1; predicted gene 2903
10004865	similar to bromodomain adjacent to zinc finger domain protein 1A (Ctcf40); bromodomain adjacent to zinc finger domain 1A
101133042	glyoxaldehyde-3-phosphate dehydrogenase-like B; hypothetical protein LOC101133042; glyceraldehyde-3-phosphate dehydrogenase
10139732	ribosomal protein S27c; similar to aliquasin and ribosomal protein S27a
10172348	ATP synthase, He-translocating, mitochondrial F1 complex, gamma polypeptide 1

FF03 phosphorylated proteins

ENTREZ_GENE_ID Gene Name

288 ankyrin 3, node of Ranvier (ankyrin G)
317 apoptotic peptidase activating factor 1
1122 choroideremia-like (Rab escort protein 2)
1736 dyskeratosis congenita 1, dyskerin
1936 eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)
2157 coagulation factor VIII, procoagulant component
3068 hepatoma-derived growth factor (high-mobility group protein 1-like)
3326 heat shock protein 90kDa alpha (cytosolic), class B member 1
4676 nucleosome assembly protein 1-like 4
4691 nucleolin
4735 septin 2
5339 similar to Plectin 1 (PLTN) (PCN) (Hemidesmosomal protein 1) (HD1); plectin 1, intermediate filament binding protein 500kDa
5671 pregnancy specific beta-1-glycoprotein 3
6607 survival of motor neuron 1, telomeric; survival of motor neuron 2, centromeric
6749 structure specific recognition protein 1
7167 TPI1 pseudogene; triosephosphate isomerase 1
8091 high mobility group AT-hook 2
8630 hydroxysteroid (17-beta) dehydrogenase 6 homolog (mouse)
9669 eukaryotic translation initiation factor 5B
10250 serine/arginine repetitive matrix 1
10728 prostaglandin E synthase 3 (cytosolic)
26092 torsin A interacting protein 1
27130 inversin
29896 transformer 2 alpha homolog (Drosophila)
51028 vacuolar protein sorting 36 homolog (S. cerevisiae)
54505 DEAH (Asp-Glu-Ala-His) box polypeptide 29
55623 THUMP domain containing 1
56897 Werner helicase interacting protein 1
79726 WD repeat domain 59
83523 Inositol (myo)-1(or 4)-monophosphatase 1
89790 sialic acid binding Ig-like lectin 10
89882 tumor protein D52-like 3
140707 BRI3 binding protein
216345 zinc finger, C3H1-type containing
237954 leucine rich repeat containing 37A
241113 protein kinase, AMP-activated, gamma 3 non-catalytic subunit
253959 GTPase activating Rap/RanGAP domain-like 1
317671 Rieske (Fe-S) domain containing
647030 eukaryotic translation elongation factor 1 beta 2; eukaryotic translation elongation factor 1 beta 2-like
729992 similar to heat shock 70kD protein binding protein; suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)

FFPE01 all proteins
ENTREC_gene_id Gene Name
81 actin, alpha 4
213 albumin
301 annexin A1
308 annexin A5
325 arylsulfatase P component, serum
335 osteopontin A1
396 Rho GDP dissociation inhibitor (GDI) alpha
718 similar to Complement C3 precursor; complement component 3; hypothetical protein LOC100133511
811 calreticulin
822 capping protein (actin filament), gelsolin-like
873 carbonic dehydratase 1
1192 chloride intracellular channel 1
1938 eukaryotic translation elongation factor 1 delta (gamma nucleotide exchange protein)
2023 enolase 1, (alpha)
2548 glucuronidase, alpha, acid
2748 glutamate dehydrogenase 1
2851 glucose phosphatase
2950 glutathione S-transferase pi 1
3043 hemoglobin, beta
3088 hepatoma-derived growth factor (high-mobility group protein 1-like)
3100 high-mobility group nucleosome binding domain 1
3102 heterogeneous nuclear ribonucleoprotein U (hnRNP attachment factor A)
3326 heat shock protein 90Da alpha (cytosolic), class B member 1
3330 Nucleoside diphosphate-ribosyltransferase (heat shock domain) 1
3434 immunoglobulin heavy constant alpha 2 (A2m marker)
3503 immunoglobulin heavy constant gamma 1 (G1m marker); immunoglobulin heavy constant mu; immunoglobulin heavy variable 3-7; immunoglobulin heavy constant gamma 3 (G3m marker); immunoglobulin heavy variable 3-11 (gene/pseudogene); immunoglobulin heavy variable 4-31; immunoglobulin heavy locus
3514 similar to HCC26659; immunoglobulin kappa constant; similar to Ig kappa chain V4 region HK102 precursor
3538 immunoglobulin lambda variable 2-11; immunoglobulin lambda constant 2 (Kmi-2a marker); immunoglobulin lambda variable 1-44; immunoglobulin lambda constant 1 (Mlg marker); immunoglobulin lambda variable 1-40; immunoglobulin lambda variable 3-21; immunoglobulin lambda constant 3 (Kmi-2b marker)
3709 nucleol 1, 4,5-phosphatase receptor, type 2
3849 keratin 2
3852 keratin 5
3862 keratin 9
3863 keratin 13
3866 keratin 15
3873 keratin 18; keratin 18 pseudogene 2b; keratin 18 pseudogene 19
3880 keratin 19
3903 isocitrate dehydrogenase A
4238 microtubule-associated protein 1
4637 myosin, heavy chain 9, non-muscle
4735 sagittin 2
5007 signal binding protein
5052 parvovirus 1
5118 plectenin
5188 plectonemal biogenesis factor 1
5216 profilin 1
5220 phosphoglycerate kinase 1
5266 serpin peptidase inhibitor, class A (alpha 1 antitrypsinase, antitrypsin), member 1
5268 phosphonucleoside kinase, regulatory subunit 2 (beta)
5339 similar to Plectin 1 (PLTN) (PCN) (hemidesmosomal protein 1) (HD1); plectin 1, intermediate filament binding protein 500Da
5479 phosphoglycosyl isomerase B (cystoselin B)
5504 protein phosphatase 1, regulatory (inhibitor) subunit 2
5576 protein kinase, cAMP-dependent, regulatory, type I, alpha
5584 proteasome (prosome, macropain) subunit, beta type, 6
6279 S100 calcium binding protein AB
6280 S100 calcium binding protein AB
6310 ataxin 1
6317 serpin peptidase inhibitor, class B (ovalbumin), member 3
6525 simonin
6585 tenascin-R
7184 heat shock protein 90Da beta (Gp94), member 1
7276 tubulin, alpha 3c (tubulin, alpha 3c)
7316 ubiquitin C
7317 ubiquitin-like modifier activating enzyme 1
7431 vimentin
7446 vimentin
8241 RNA binding motif protein 10
8338 histone cluster 2, H2ac
8407 histone 2
8516 histone, alpha 8
8609 similar to HCC1820375; PRP4 pre-mRNA processing factor 4 homolog B (yeast)
9560 SRV (see determining region Y1-box 13)
10130 protein disulfide isomerase family A, member 6
10250 sirtuin/arginine repressive matrix 1
10327 Myosin, divergently regulated 1
10951 chromobox homolog 1 (FP1 beta homolog Drosophila)
12465 chaperonin containing Top1, subunit 5 (epistery)
12522 profilin 2, muscle
18200 nectin 3
21464 co-repress protein 1
22803 F-3 acetylcholinesterase 2
23246 lack of proliferation 1
23524 sirtuin/arginine repressive matrix 2; hypothetical LOC100132779
25434 STRAP-like 1 (theta)
26227 phosphoglycerate dehydrogenase
27044 diaphylochemical nuclease and factor domain containing 1
27289 Rho family GTPase 1
50810 hepatoma-derived growth factor, related protein 3
51056 leucine aminopeptidase 3
55558 gelsolin
56623 TRAMP domain containing 1
56713 zinc finger protein 334
57486 nucleoside (nucleoside)phosphatase M3 family
64710 nuclear casein kinase and cyclin-dependent kinase substrate 1
77628 SHYF1 repressor, ARAF domain containing
79180 EF-hand domain family, member C2
80314 enhancer of polycomb homolog 1 (Drosophila)
84650 PRP38 pre-mRNA processing factor 38 (yeast) domain containing A
85247 S100 calcium binding protein AB
89797 neuron navigator 2
114483 cysteine binding protein-like 9
115233 leucine rich repeat containing 42
121642 aB4, ubiquitin repair homolog 2 (E. coli)
20865c arginine-serine-rich coiled-coil 2
228140 tartrate 1 binding protein 1
231847 PDGF-A associated protein 1
233870 predicted gene 9756; 16 translation elongation factor, mitochondrial
236051 similar to Histone H4 nucleosome core particle C22279; PC; germinal histone H4-like; histone H4-like; similar to HistH4c protein; similar to Histone cluster 1, H4f; histone H4
281341 myosin, light chain 6, alkali, smooth muscle and non-muscle
281225 myosin 3 monooxygenase/tryptophan 5-memooxygenase activation protein, epsilon polypeptide
286887 keratin 6C
287018 HD histone family, member 2
295518 ribosomal protein L3
375444 chromosome 5 open reading frame 34
380437 similar to keratin, light polypeptide; keratin, light polypeptide
400750 hypothetical gene supported by AF216292; NM_005347; heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)
401265 complex 10 like 2 (mouse); complex 10 homolog (mouse)
491006 keratin 10
492085 phosphoglycosyl isomerase A
49458 moesin
512745 ribosomal protein L11; similar to ribosomal protein L11
5279c similar to elongation factor 1 alpha; similar to eukaryotic translation elongation factor 1 alpha 1; eukaryotic translation elongation factor 1 alpha 1
53495 actin related protein 2/3 complex, subunit 4, 20kDa
544583 heterogeneous nuclear ribonucleoprotein-K; similar to heterogeneous nuclear ribonucleoprotein K
645181 PDGFR associated protein 1; similar to PDGFR associated protein 1
647030 eukaryotic translation elongation factor 1 beta 2; eukaryotic translation elongation factor 1 beta 2-like
652248 promyelocytic leukemia; similar to promyelocytic leukemia protein isoform 1
652773 similar to Pyruvate kinase isozyme HKM2; Pyruvate kinase muscle isoenzyme (Cytosolic thylid hormone-binding protein) (CTHBP) (THBP1); pyruvate kinase, muscle
653653 heat shock 70kDa protein-like 2 pseudogene; heat shock 70kDa protein 1
729610 S100 calcium binding protein A11; S100 calcium binding protein A11; pseudogene
729682 keratin 17; keratin 17 pseudogene 3
780991 actin, gamma 1; similar to Actin, cytoplasmic 2 (beta-actin-2); actin, beta
781224 H3 histone, family 3A, similar to histone 3.3A, similar to Histone H3.3, similar to Histone H3.3B; CGC989-PA
100033827 heat shock protein 90Da alpha (cytosolic), class A member 1
100133024; glycerinaldehyde-3-phosphate dehydrogenase-like 6; hypothetical protein LOC100133042; glycerinaldehyde-3-phosphate dehydrogenase
100172811 ribosomal protein L7

FFPE01 phosphorylated proteins

ENTREZ_GENE_ID Gene Name

1936 eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)
3068 hepatoma-derived growth factor (high-mobility group protein 1-like)
3150 high-mobility group nucleosome binding domain 1
3709 inositol 1,4,5-triphosphate receptor, type 2
3860 keratin 13
4000 lamin A/C
4236 microfibrillar-associated protein 1
4627 myosin, heavy chain 9, non-muscle
4735 septin 2
5007 oxysterol binding protein
5189 peroxisomal biogenesis factor 1
5296 phosphoinositide-3-kinase, regulatory subunit 2 (beta)
5339 similar to Plectin 1 (PLTN) (PCN) (Hemidesmosomal protein 1) (HD1); plectin 1, intermediate filament binding protein 500kDa
5504 protein phosphatase 1, regulatory (inhibitor) subunit 2
5576 protein kinase, cAMP-dependent, regulatory, type II, alpha
8241 RNA binding motif protein 10
8516 integrin, alpha 8
8899 similar to hCG1820375; PRP4 pre-mRNA processing factor 4 homolog B (yeast)
10250 serine/arginine repetitive matrix 1
10397 N-myc downstream regulated 1
10576 chaperonin containing TCP1, subunit 2 (beta)
10951 chromobox homolog 1 (HP1 beta homolog Drosophila)
22803 5'-3' exoribonuclease 2
23246 block of proliferation 1
23524 serine/arginine repetitive matrix 2; hypothetical LOC100132779
25434 SPARC-like 1 (hevin)
27289 Rho family GTPase 1
50810 hepatoma-derived growth factor, related protein 3
55558 plexin A3
55623 THUMP domain containing 1
55713 zinc finger protein 334
64710 nuclear casein kinase and cyclin-dependent kinase substrate 1
80314 enhancer of polycomb homolog 1 (Drosophila)
84950 PRP38 pre-mRNA processing factor 38 (yeast) domain containing A
114883 oxysterol binding protein-like 9
121642 alkB, alkylation repair homolog 2 (E. coli)
228140 tankyrase 1 binding protein 1
231887 PDGFA associated protein 1
645181 PDGFA associated protein 1; similar to PDGFA associated protein 1
647030 eukaryotic translation elongation factor 1 beta 2; eukaryotic translation elongation factor 1 beta 2-like
652346 promyelocytic leukemia; similar to promyelocytic leukemia protein isoform 1
653553 heat shock 27kDa protein-like 2 pseudogene; heat shock 27kDa protein 1
4557890 CIMG_10066
4758794 TVAG_381880

FPPE02 all proteins
ENTREZ_GENE_ID Gene Name
12 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3
213 albumin
301 annexin A1
308 annexin A5
325 amyloid P component, serum
335 apolipoprotein A1
353 adenosine phosphoribosyltransferase
398 Rho GDP-dissociation inhibitor (GDI) alpha
397 Rho GDP-dissociation inhibitor (GDI) beta
566 azurocidin 1
703 complement component 4A (Rodgers blood group)
822 capping protein (actin filament), gelsolin-like
1281 collagen, type VI, alpha 1
1356 ceruloplasmin (ferroxidase)
1509 cathepsin D
1890 thymidine phosphorylase
1991 elastase, neutrophil expressed
2268 fibrinogen gamma chain
2505 ferritin, heavy polypeptide 1; ferritin, heavy polypeptide 1; ferritin, heavy polypeptide-like 3 pseudogene
2950 glutathione S-transferase pi 1
3043 hemoglobin, beta
3150 high-mobility group nucleosome binding domain 1
3192 heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)
3326 heat shock protein 90Da alpha (cytosolic), class B member 1
3484 immunoglobulin heavy constant alpha 2 (A2m marker)
3500 immunoglobulin heavy constant gamma 1 (G1m marker); immunoglobulin heavy constant mu; immunoglobulin heavy variable 3-7; immunoglobulin heavy constant gamma 3 (G3m marker); immunoglobulin heavy variable 3-11 (gene/pseudogene); immunoglobulin heavy variable 4-31; immunoglobulin heavy locus
3538 immunoglobulin lambda variable 2-11; immunoglobulin lambda constant 2 (Kern-Oz marker); immunoglobulin lambda variable 1-44; immunoglobulin lambda constant 1 (Mg marker); immunoglobulin lambda variable 1-42; immunoglobulin lambda variable 3-21; immunoglobulin lambda locus; immunoglobulin lambda constant 3 (Kern-Oz+ marker)
3852 keratin 5
3857 keratin 9
3861 keratin 14
3934 lipocalin 2
3938 lactate dehydrogenase A
4000 lamin A/C
4057 lacrtobranserin
4060 lumican
4317 matrix metalloproteinase 8 (neutrophil collagenase)
4353 myeloperoxidase
4664 NGF1A binding protein 1 (EGR1 binding protein 1)
4691 nucleolin
4735 septin 2
5005 orosomucoid 2
5216 profilin 1
5295 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1
5676 protein kinase, cAMP-dependent, regulatory, type II, alpha
6173 ribosomal protein L36a pseudogene S1; ribosomal protein L36a pseudogene 37; ribosomal protein L36a pseudogene 49; heterogeneous nuclear ribonucleoprotein H2 (H7); ribosomal protein L36a
6278 S100 calcium binding protein A8
6280 S100 calcium binding protein A9
6310 actin 1
6672 SP100 nuclear antigen
7096 trankeblase
7275 tubulin, alpha 3c; tubulin, alpha 3c
7316 ubiquitin C
7317 ubiquitin-like modifier activating enzyme 1
7431 vimentin
7448 vitronectin
7636 splicing factor 1
10058 ATP-binding cassette, sub-family B (MDR/TAP), member 6
10250 serine/arginine repetitive matrix 1
10397 Nrcyc downstream regulated 1
16772 laminin, alpha 1
21345 integrin
22803 5'-3' exonuclease 2
23332 cytoplasmic linker associated protein 1
23524 serine/arginine repetitive matrix 2; hypothetical LOC100132779
24856 transthyretin
27289 Rho family GTPase 1
28896 transformer 2 alpha homolog (Drosophila)
51004 coenzyme Q6 homolog, monoxygenase (S. cerevisiae)
55823 THUMP domain containing 1
55693 lysine (K)-specific demethylase 4D
56429 dermatoponin
57486 neurolysin (metalloproteinase M3 family)
64710 nuclear casein kinase and cyclin-dependent kinase substrate 1
64829 unc-13 homolog A (C. elegans)
77629 SPRK1 interactor, AKAP domain containing
84950 PRP38 pre-mRNA processing factor 38 (yeast) domain containing A
89797 neuron navigator 2
110750 chromosome segregation 1-like (S. cerevisiae)
116207 potassium channel tetramerisation domain containing 12
121642 alkB, alkylated repair homolog 2 (E. coli)
152110 NIMA (never in mitosis gene a)-related kinase 10
192136 RIKEN cDNA 5033411D12 gene
195434 LTP4L, LTP4 small nuclear ribonucleoprotein, homolog B (yeast)
216345 zinc finger, C3H1-type containing
228140 lanthiasin 1 binding protein 1
231887 PDGFA associated protein 1
280891 similar to Histone H4 replacement CG3379-PC; germinal histone H4-like; histone H4-like; similar to HistH4c protein; similar to histone cluster 1, H4i; histone H4
281341 myosin, light chain 6, alkali, smooth muscle and non-muscle
320808 WD repeat domain 22
326588 ribosomal protein S3
327882 guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1
392437 similar to ferritin, light polypeptide; ferritin, light polypeptide
397022 eukaryotic translation elongation factor 1 gamma
493966 peptidylprolyl isomerase A
507564 heterogeneous nuclear ribonucleoprotein A2/B1
512745 ribosomal protein L11; similar to ribosomal protein L11
522140 similar to CAP1 protein; CAP, adenylyate cyclase-associated protein 1 (yeast)
532895 ribosomal protein, large, P1
533459 actin related protein 2/3 complex, subunit 4, 20kDa
540278 mitochondrial ribosomal protein L35
645086 chromosome 11 open reading frame 58
645181 PDGFA associated protein 1; similar to PDGFA associated protein 1
647030 eukaryotic translation elongation factor 1 beta 2; eukaryotic translation elongation factor 1 beta 2-like
652346 promyelocytic leukemia; similar to promyelocytic leukemia protein isoform 1
652797 similar to Pyruvate kinase, isozymes M1/M2 (Pyruvate kinase muscle isozyme) (Cytosolic thyroid hormone-binding protein) (CTHBP) (THBP1); pyruvate kinase, muscle
653553 heat shock 27kDa protein-like 2 pseudogene; heat shock 27kDa protein 1
728886 nucleophosmin 1 (nucleolar phosphoprotein B23, numatrin) pseudogene 21; hypothetical LOC100131044; similar to nucleophosmin 1; nucleophosmin (nucleolar phosphoprotein B23, numatrin)
780991 actin, gamma 1; similar to Actin, cytoplasmic 2 (Beta-actin-2); actin, beta
781224 H3 histone, family 3A; similar to histone 3.3A; similar to histone H3.3; similar to Histone H3.3B CG8989-PA
100008817 chloride intracellular channel 1
100033837 heat shock protein 90kDa alpha (cytosolic), class A member 1
100133042 glyceraldehyde-3-phosphate dehydrogenase-like 6; hypothetical protein LOC100133042; glyceraldehyde-3-phosphate dehydrogenase
100172353 serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1)
100172811 ribosomal protein L7

FFPE02 phosphorylated proteins

ENTREZ_GENE_ID Gene Name

2508 ferritin, heavy polypeptide 1; ferritin, heavy polypeptide-like 16; similar to ferritin, heavy polypeptide 1; ferritin, heavy polypeptide-like 3 pseudogene
3068 hepatoma-derived growth factor (high-mobility group protein 1-like)
3150 high-mobility group nucleosome binding domain 1
3861 keratin 14
4000 lamin A/C
4664 NGFI-A binding protein 1 (EGR1 binding protein 1)
4691 nucleolin
4735 septin 2
5576 protein kinase, cAMP-dependent, regulatory, type II, alpha
6426 splicing factor, arginine/serine-rich 1
6672 SP100 nuclear antigen
7536 splicing factor 1
10058 ATP-binding cassette, sub-family B (MDR/TAP), member 6
10250 serine/arginine repetitive matrix 1
10397 N-myc downstream regulated 1
22803 5'-3' exoribonuclease 2
23524 serine/arginine repetitive matrix 2; hypothetical LOC100132779
27289 Rho family GTPase 1
29896 transformer 2 alpha homolog (Drosophila)
55623 THUMP domain containing 1
55693 lysine (K)-specific demethylase 4D
64710 nuclear casein kinase and cyclin-dependent kinase substrate 1
84950 PRP38 pre-mRNA processing factor 38 (yeast) domain containing A
121642 alkB, alkylation repair homolog 2 (E. coli)
195434 UTP14, U3 small nucleolar ribonucleoprotein, homolog B (yeast)
228140 tankyrase 1 binding protein 1
231887 PDGFA associated protein 1
645086 chromosome 11 open reading frame 58 pseudogene; chromosome 11 open reading frame 58
645181 PDGFA associated protein 1; similar to PDGFA associated protein 1
647030 eukaryotic translation elongation factor 1 beta 2; eukaryotic translation elongation factor 1 beta 2-like
652346 promyelocytic leukemia; similar to promyelocytic leukemia protein isoform 1
729686 nucleophosmin 1 (nucleolar phosphoprotein B23, numatrin) pseudogene 21; hypothetical LOC100131044; similar to nucleophosmin 1; nucleophosmin (nucleolar phosphoprotein B23, numatrin)

PFPE03 all proteins

ENTREZ_GENE_ID Gene Name
12 serpin peptidase inhibitor, clade A (alpha-1 antitrypsin, antitrypsin), member 3
18 actin, alpha 4
213 albumin
308 annexin A5
396 Rho GDP dissociation inhibitor (GDI) alpha
468 ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle
546 aspartin 1
873 carbonyl reductase 1
1207 chloride channel, nucleoside-sensitive, 1A
1509 cathepsin D
1511 cathepsin G
1522 cathepsin Z
1880 semidine phosphatase
1950 serpin peptidase inhibitor, clade B (ovalbumin), member 1
2023 enolase 1, alpha
2548 glucosylase, alpha, acid
2746 glutamate dehydrogenase 1
2851 glucose 6-phosphate isomerase
2950 glutathione S-transferase pi 1
3043 hemoglobin, beta
3068 hepatoma-derived growth factor (high-mobility group protein 1-like)
3102 heterogeneous nuclear ribonucleoprotein U (scuffard attachment factor A)
3320 heat shock protein 90Da alpha (cytosolic), class B member 1
3434 immunoglobulin heavy constant alpha 2 (A2m marker)
3500 immunoglobulin heavy constant gamma 1 (G1m marker); immunoglobulin heavy constant mu; immunoglobulin heavy variable 3-7; immunoglobulin heavy constant gamma 3 (G3m marker); immunoglobulin heavy variable 3-11 (gene/pseudogene); immunoglobulin heavy variable 4-31; immunoglobulin heavy locus
3514 similar to NC02669; immunoglobulin kappa constant; similar to Ig kappa chain V1 region HK102 precursor
3709 insulin 1-45 diphosphate receptor, type 2
3852 keratin 5
3857 keratin 9
3858 keratin 10
3859 keratin 15
3875 keratin 18, keratin 18 pseudogene 26; keratin 18 pseudogene 19
3880 keratin 19
3890 lactate dehydrogenase A
4000 lamin A/C
4148 matrin 3
4236 microtubular associated protein 1
4691 nucleolin
4735 septin 2
5007 cysteine1 binding protein
5216 pectin 1
5269 serpin peptidase inhibitor, clade B (ovalbumin), member 6
5296 phosphatidylethanolamine, regulatory subunit 2 (beta)
5504 protein phosphatase 1, regulatory (inhibitor) subunit 2
5576 protein kinase, cAMP-dependent, regulatory, type II, alpha
6141 ribosomal protein L18
6279 S100 calcium binding protein A6
6280 S100 calcium binding protein A9
6310 ataxin 1
6337 sodium channel, nonvoltage-gated 1 alpha
6426 splicing factor, arginine/serine-rich 1
6522 smoothelin
6745 single-stranded DNA binding protein 1
6888 transactinase 1
7026 transactinase
7278 tubulin, alpha 3c1 tubulin, alpha 3c
7317 ubiquitin-like modifier activating enzyme 1
7431 vimentin
7548 zincing factor 1
8028 ADAM metalloproteinase domain 12
8887 Trax1 (Human T-cell leukemia virus type I) binding protein 1
8898 similar to KC1810375; PRP4 pre-mRNA processing factor 4 homolog B (yeast)
9508 ADAM metalloproteinase with thrombospondin type 1 motif, 3
10056 phenylalanyl-tRNA synthetase, beta subunit
10110 protein disulfide isomerase family A, member 6
10212 DEAD (Arg-Glu-Ile-Asp) box polypeptide 38
10236 heterogeneous nuclear ribonucleoprotein R
10250 serine/arginine repetitive matrix 1
10278 proteoglycan 5 synthase 3 (cartilage)
10935 peroleukobin 3
11331 probablin 2
11545 poly (ADP-ribose) polymerase family, member 1
11752 acetylcholinesterase 1
12465 chaperonin containing Top1, subunit 5 (epsilon)
17523 myeloperoxidase
18626 lymphocyte cytosolic protein 1
21454 i-complex protein 1
22603 S'3' exonuclease 2
23063 wings apart-like homolog (Drosophila)
23179 rat guanine nucleotide dissociation stimulator-like 1
23332 cytoplasmic linker associated protein 1
23624 serine/arginine repetitive matrix 2, hypothetical LOC100132979
23881 GTPase activating protein (GAP domain) binding protein 2
25434 SPARC-like 1 (hevin)
27044 sialyltransferase and tudor domain containing 1
28096 transformer 2 alpha homolog (Drosophila)
28510 heparanase-derived growth factor-related protein 3
54726 OTU domain containing 4
56623 TMAP domain containing 1
57486 neurolysin (metalloproteinase M3 family)
64710 nuclear casein kinase and cyclin-dependent kinase substrate 1
7010 EF-hand domain family, member D2
83620 Inositol (myo)-[10r-4]-monophosphatase 1
84402 proline, arginine-rich and leucine-rich repeat protein
84950 PRP38 pre-mRNA processing factor 38 (yeast) domain containing A
85247 S100 calcium binding protein A6
89787 neuron navigator 2
115207 potassium channel tetramerization domain containing 12
123283 phenyl-tRNA synthetase-like 2
19218c RIKEN cDNA 503411D12 gene
22910 lactasease 1 tandem protein 1
231887 PDGFA associated protein 1
233807 predicted gene 9755, transcription elongation factor, mitochondrial
280691 similar to Histone H4 replacement C53379-PC; germinal histone H4-like; histone H4-like; similar to HistH4nc; similar to histone cluster 1, H4; histone H4
28141 myosin light chain 6, skeletal smooth muscle and non-muscle
281370 ubiquitin C, polyubiquitin, ubiquitin A-S2 residue ribosomal protein fusion product 1
28769 keratin 13
314123 similar to Agmatase aminotransferase, mitochondrial precursor (Transaminase A) (Glutamate oxaloacetate transaminase 2, mitochondrial (aspartate aminotransferase 2))
32658 ribosomal protein S3
330437 similar to histin, light polypeptide, histin, light polypeptide
39702 eukaryotic translation elongation factor 1 gamma
40070 hypothetical gene supported by AF216292, NM_055347, heat shock 70Da protein 5 (glucose-regulated protein, 78kDa)
40140 ribosomal protein S8
49449 ribodin
51245 ribosomal protein L11; similar to ribosomal protein L11
53265 ribosomal protein, large, P1
53269 mitochondrial ribosomal protein S28
53949 actin related protein 2/3 complex, subunit 4, 20kDa
54403 heterogeneous nuclear ribonucleoprotein K; similar to heterogeneous nuclear ribonucleoprotein K
54700 eukaryotic translation elongation factor 1 beta 2, eukaryotic translation elongation factor 1 beta 2-like
55236 promyelocytic leukemia, similar to promyelocytic leukemia protein (leukemia 1)
55353 heat shock 70Da protein-like 2 pseudogene; heat shock 70Da protein 1
72660 S100 calcium binding protein A11; S100 calcium binding protein A11 pseudogene
78091 actin, gamma 1; similar to Actin, cytoplasmic 2 (Beta-actin-2), actin, beta
78124 H3 histone, family 3A; similar to histone 3.3A; similar to histone H3.3; similar to histone H3.3B CO8969-PA
78600 small nuclear ribonucleoprotein D1 polypeptide 10kDa; similar to hC014469
10009106 lactate dehydrogenase H
10033807 heat shock protein 90Da alpha (cytosolic), class A member 1
100133042 glyoxaldehyde-3-phosphate dehydrogenase-like E, hypothetical protein LOC100133042; glyoxaldehyde-3-phosphate dehydrogenase
100139732 ribosomal protein S27a; similar to ubiquitin and ribosomal protein S27a
10017281 ribosomal protein L7

FFPE03 phosphorylated proteins

ENTREZ_GENE_ID Gene Name

1207 chloride channel, nucleotide-sensitive, 1A
3068 hepatoma-derived growth factor (high-mobility group protein 1-like)
3709 inositol 1,4,5-triphosphate receptor, type 2
4000 lamin A/C
4236 microfibillar-associated protein 1
4691 nucleolin
4735 septin 2
5007 oxysterol binding protein
5296 phosphoinositide-3-kinase, regulatory subunit 2 (beta)
5504 protein phosphatase 1, regulatory (inhibitor) subunit 2
5576 protein kinase, cAMP-dependent, regulatory, type II, alpha
6337 sodium channel, nonvoltage-gated 1 alpha
6426 splicing factor, arginine/serine-rich 1
7536 splicing factor 1
8038 ADAM metallopeptidase domain 12
8899 similar to hCG1820375; PRP4 pre-mRNA processing factor 4 homolog B (yeast)
10250 serine/arginine repetitive matrix 1
10728 prostaglandin E synthase 3 (cytosolic)
22803 5'-3' exoribonuclease 2
23179 ral guanine nucleotide dissociation stimulator-like 1
23524 serine/arginine repetitive matrix 2; hypothetical LOC100132779
23881 GTPase activating protein (SH3 domain) binding protein 2
25434 SPARC-like 1 (hevin)
29896 transformer 2 alpha homolog (Drosophila)
50810 hepatoma-derived growth factor, related protein 3
54726 OTU domain containing 4
55623 THUMP domain containing 1
64710 nuclear casein kinase and cyclin-dependent kinase substrate 1
83523 Inositol (myo)-1(or 4)-monophosphatase 1
84950 PRP38 pre-mRNA processing factor 38 (yeast) domain containing A
89797 neuron navigator 2
123283 threonyl-tRNA synthetase-like 2
228140 tankyrase 1 binding protein 1
231887 PDGFA associated protein 1
535290 mitochondrial ribosomal protein S28
647030 eukaryotic translation elongation factor 1 beta 2; eukaryotic translation elongation factor 1 beta 2-like
652346 promyelocytic leukemia; similar to promyelocytic leukemia protein isoform 1
767874 heat shock 90kDa protein 1, beta
6806919 Thymidine phosphorylase

Supplementary Table:

GeneID	Name
8038	ADAM METALLOPEPTIDASE DOMAIN 12 (MELTRIN ALPHA)
135228	CD109 ANTIGEN (GOV PLATELET ALLOANTIGENS)
1495	CTNNA1 catenin (cadherin-associated protein), alpha 1, 102kDa
1933	EUKARYOTIC TRANSLATION ELONGATION FACTOR 1 BETA 2
1936	EUKARYOTIC TRANSLATION ELONGATION FACTOR 1 DELTA
2495	FERRITIN, HEAVY POLYPEPTIDE 1
3326	HEAT SHOCK PROTEIN 90KDA ALPHA (CYTOSOLIC), CLASS B MEMBER 1
3068	HEPATOMA-DERIVED GROWTH FACTOR (HIGH-MOBILITY GROUP PROTEIN 1-LIKE)
3159	HIGH MOBILITY GROUP AT-HOOK 1
3612	INOSITOL (MYO)-1(OR 4)-MONOPHOSPHATASE 1
4000	LAMIN A/C
4627	MYOSIN, HEAVY POLYPEPTIDE 9, NON-MUSCLE
23522	MYST4 MYST histone acetyltransferase (monocytic leukemia) 4
4691	NUCLEOLIN
5007	OXYSTEROL BINDING PROTEIN
11333	PDGFA ASSOCIATED PROTEIN 1
10728	PROSTAGLANDIN E SYNTHASE 3 (CYTOSOLIC)
5576	PROTEIN KINASE, CAMP-DEPENDENT, REGULATORY, TYPE II, ALPHA
6176	RIBOSOMAL PROTEIN, LARGE, P1
4735	SEPTIN 2
10250	SERINE/ARGININE REPETITIVE MATRIX 1
23524	SERINE/ARGININE REPETITIVE MATRIX 2
652800	SIMILAR TO NEURON NAVIGATOR 2 ISOFORM 2
79582	SPERM ASSOCIATED ANTIGEN 16
7536	SPLICING FACTOR 1
6426	SPLICING FACTOR, ARGININE/SERINE-RICH 1 (SPLICING FACTOR 2, ALTERNATE)
55623	THUMP DOMAIN CONTAINING 1
8914	TIMELESS HOMOLOG (DROSOPHILA)

Supplementary Table: Phosphoproteins identified in both FF and FFPE NSCLC samples.