Supplementary Table. Proteins identified from HF5 fractions of a human serum sample with or without denaturation and proteins identified from the same serum sample without HF5 separation. Membrane proteins are marked as bold characters.

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## Supplementary Material (ESI) for Analyst
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Supplementary Material (ESI) for Analyst
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531 Centromere protein C 1
532 Connexin
533 Conserved hypothetical protein
534 Isoform 1 of Actin-binding LIM protein 3
535 Isoform 1 of Clathrin heavy chain 2
536 Isoform 1 of DNA (cytosine-5)-methyltransferase 1
537 Isoform 1 of Probable nucleolar complex protein 14
538 Isoform 1 of Torsin-3A precursor
539 Isoform 1 of Uncharacterized protein C10orf68
540 Isoform 2 of LON peptidase N-terminal domain and RING finger protein 2
541 Isoform 2 of Multidrug resistance-associated protein 1
542 Isoform 2 of Zinc finger protein basonuclin-2
543 Isoform 4 of Intersectin-2
544 Isoform 5 of Transcription initiation factor TFIID subunit 1
545 Latrophilin-2 (Fragment)
546 minichromosome maintenance protein 10 isoform 2
547 Opsin-5
548 Plexin-C1 precursor
549 Protein RM1 homolog
550 Protein-arginine deiminase type-2
551 Signal recognition particle 72 kDa protein
552 similar to alpha 3 type VI collagen isoform 1 precursor
553 similar to deubiquitinating enzyme 3
554 WDR86 protein
555 WW domain-binding protein 11
556 zinc finger protein 262
557 zinc finger, ZZ type with EF hand domain 1
558 100 kDa protein
559 12 kDa protein
560 13 kDa protein
561 136 kDa protein
562 147 kDa protein
563 15 kDa selenoprotein isoform 1 precursor
564 19 kDa protein
565 221 kDa protein
566 24 kDa protein
567 36 kDa protein
568 53 kDa protein
569 5-hydroxytryptamine (serotonin) receptor 3B precursor
570 8 kDa protein
571 Adiponutrin
572 Alkylidihydroxyacetonephosphate synthase, peroxisomal precursor
573 Alpha-2,8-sialyltransferase 8B
574 Apolipoprotein C-II precursor
575 arylhydrocarbon receptor repressor
576 Brefeldin A-inhibited guanine nucleotide-exchange protein 1
577 C12orf48 protein
578 Carbonic anhydrase 5B, mitochondrial precursor
579 Caskin-2
580 CASP8 and FADD-like apoptosis regulator variant (Fragment)
581 Cation-independent mannose-6-phosphate receptor precursor
582 CDNA FLJ11142 fis, clone PLACE1006552
583 CDNA FLJ20558 fis, clone KAT11870
584 CDNA FLJ25874 fis, clone CB02446 (Fragment)
585 CDNA FLJ26204 fis, clone ADG07455
586 CDNA FLJ30491 fis, clone BRAWH2000177, moderately similar to SERINE
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## Supplementary Material (ESI) for Analyst

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| 689 | PNAS-138 | IP100382460.1 | 5614.7 | 2 |
| 690 | Poly [ADP-ribose] polymerase 1 | IP100449049.5 | 113012.4 | 1 |
| 691 | Probable ATP-dependent RNA helicase DDX20 | IP100005904.3 | 92182.5 | 1 |
| 692 | Probable ATP-dependent RNA helicase DHX35 | IP100030288.2 | 78860.2 | 1 |
| 693 | Prolargin precursor | IP100020987.1 | 43782.2 | 1 |
| 694 | Protein KIAA1109 | IP100398012.4 | 554948.0 | 1 |
| 695 | Protein KIAA1546 | IP100026533.5 | 130172.5 | 1 |
| 696 | Protocadherin 15 | IP100290035.3 | 216201.5 | 1 |
| 697 | regeneration associated muscle protease isoform a | IP100064429.4 | 81889.4 | 1 |
| 698 | RNF157 protein | IP100386730.3 | 42525.2 | 1 |
| 699 | rotatin | IP100645947.1 | 248452.1 | 1 |
| 700 | Serine/threonine-protein kinase PRKX | IP100020904.1 | 40870.1 | 1 |
| 701 | SH3-domain kinase binding protein 1 | IP100641861.1 | 16401.2 | 1 |
| 702 | similar to heat shock 70kD protein binding protein | IP100737448.1 | 14168.7 | 1 |
| 703 | similar to Kinase suppressor of ras-1 | IP100399198.4 | 31984.4 | 1 |
| 704 | similar to phosphodiesterase 4D interacting protein isoform 2 | IP100741074.1 | 15733.9 | 2 |
| 705 | similar to TPR domain, ankyrin-repeat and coiled-coil-containing isoform 1 | IP100030466.5 | 209981.3 | 1 |
| 706 | similar to Vac14 homolog | IP100787397.1 | 135792.3 | 1 |
| 707 | similar to zinc finger protein 285 | IP100454738.2 | 69643.4 | 1 |
| 708 | similar to zinc finger protein 292 isoform 1 | IP100164352.6 | 304621.1 | 1 |
| 709 | SMARCA4 isoform 2 | IP100029822.3 | 188030.2 | 1 |
| 710 | Sphingosine kinase 1 | IP100182048.7 | 42490.0 | 1 |
| 711 | stretch responsive protein 278 isoform a | IP100395940.7 | 52527.5 | 1 |
| 712 | Succinyl-CoA ligase [GDP-forming] beta-chain, mitochondrial precursor | IP100096066.2 | 46481.5 | 1 |
| 713 | Taste receptor type 2 member 13 | IP100028332.1 | 35095.1 | 1 |
| 714 | Taste receptor type 2 member 41 | IP100221132.1 | 35888.3 | 1 |
| 715 | Teneurin-3 | IP100398020.7 | 300757.7 | 1 |
| 716 | Transforming growth factor beta-1 precursor | IP100000073.3 | 44312.8 | 1 |
| 717 | Tumor necrosis factor (Ligand) superfamily, member 15 | IP100643268.1 | 20099.2 | 1 |
| 718 | Tyrosine-protein phosphatase non-receptor type 4 | IP100019949.1 | 105843.9 | 1 |
| 719 | UbCH10 binding protein with a hect-like domain | IP100376330.8 | 37896.2 | 1 |
| 720 | Uncharacterized protein C5orf23 | IP100002247.2 | 13765.0 | 1 |
| 721 | Uncharacterized protein C6orf146 | IP100217605.2 | 57384.1 | 1 |
| 722 | UPF0258 protein KIAA1024 | IP100167867.5 | 102928.1 | 1 |
| 723 | V_segment translation product (Fragment) | IP100807336.1 | 12197.2 | 1 |
| 724 | Voltage-dependent L-type calcium channel subunit alpha-1S | IP100299240.4 | 212418.5 | 1 |
| 725 | von Willebrand factor A domain-containing protein 2 | IP100394834.3 | 81960.1 | 1 |
| 726 | Xanthine dehydrogenase/oxidase | IP100244391.3 | 146329.8 | 1 |
| 727 | zinc finger CCCH-type containing 13 | IP100016472.4 | 184758.8 | 1 |
| 728 | Zinc finger protein 471 | IP100333859.2 | 72961.3 | 1 |
| 729 | zinc finger protein 609 | IP100307591.5 | 151097.1 | 1 |