

**Analytical and Bioanalytical Chemistry**

**Electronic Supplementary Material**

**Online Coupling of Reverse-Phase and Hydrophilic Interaction  
Liquid Chromatography for Protein and Glycoprotein  
Characterization**

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**Figure S1:** List of proteins identified from 5 µg of mouse chondrogenic cell lysate using RP-HILIC ( $\geq 95\%$  confidence), as determined by ProteinPilot.

RP-HILIC-LC Complete Protein List (1/7)

| No. | % Cov | Accession #           | Name                                                                                                 | No. | % Cov | Accession #           | Name                                                                                              |
|-----|-------|-----------------------|------------------------------------------------------------------------------------------------------|-----|-------|-----------------------|---------------------------------------------------------------------------------------------------|
| 1   | 52    | sp Q64433 CH10_MOUSE  | 10 kDa heat shock protein, mitochondrial OS=Mus musculus GN=Hspe1 PE=1 SV=2                          | 41  | 51.3  | sp P99027 RLA2_MOUSE  | 60S acidic ribosomal protein P2 OS=Mus musculus GN=Rplp2 PE=1 SV=3                                |
| 2   | 58.1  | sp Q9CQV8 1433B_MOUSE | 14-3-3 protein beta/alpha OS=Mus musculus GN=Ywhab PE=1 SV=3                                         | 42  | 65.2  | sp Q9CXW4 RL11_MOUSE  | 60S ribosomal protein L11 OS=Mus musculus GN=Rpl11 PE=1 SV=4                                      |
| 3   | 68.6  | sp P62259 1433E_MOUSE | 14-3-3 protein epsilon OS=Mus musculus GN=Ywhae PE=1 SV=1                                            | 43  | 80.6  | sp P35979 RL12_MOUSE  | 60S ribosomal protein L12 OS=Mus musculus GN=Rpl12 PE=1 SV=2                                      |
| 4   | 46.3  | sp P68510 1433F_MOUSE | 14-3-3 protein eta OS=Mus musculus GN=Ywhaf PE=1 SV=2                                                | 44  | 58.3  | sp P47963 RL13_MOUSE  | 60S ribosomal protein L13 OS=Mus musculus GN=Rpl13 PE=2 SV=3                                      |
| 5   | 57.1  | sp P61982 1433G_MOUSE | 14-3-3 protein gamma OS=Mus musculus GN=Ywhag PE=1 SV=2                                              | 45  | 62.7  | sp Q9CR57 RL14_MOUSE  | 60S ribosomal protein L14 OS=Mus musculus GN=Rpl14 PE=2 SV=3                                      |
| 6   | 48.6  | sp P68254 1433T_MOUSE | 14-3-3 protein theta OS=Mus musculus GN=Ywhaq PE=1 SV=1                                              | 46  | 40.7  | sp Q9CZM2 RL15_MOUSE  | 60S ribosomal protein L15 OS=Mus musculus GN=Rpl15 PE=2 SV=4                                      |
| 7   | 60.4  | sp P63101 1433Z_MOUSE | 14-3-3 protein zeta/delta OS=Mus musculus GN=Ywhaz PE=1 SV=1                                         | 47  | 46.7  | sp Q9CPR4 RL17_MOUSE  | 60S ribosomal protein L17 OS=Mus musculus GN=Rpl17 PE=2 SV=3                                      |
| 8   | 17.7  | sp Q8VEB4 LYPA3_MOUSE | 1-O-acylceramide synthase OS=Mus musculus GN=Lypa3 PE=1 SV=1                                         | 48  | 68.6  | sp P35980 RL18_MOUSE  | 60S ribosomal protein L18 OS=Mus musculus GN=Rpl18 PE=2 SV=3                                      |
| 9   | 22    | sp Q8R3B1 PLCD1_MOUSE | 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase delta-1 OS=Mus musculus GN=Plcd1 PE=2 SV=1 | 49  | 38.1  | sp P62717 RL18A_MOUSE | 60S ribosomal protein L18a OS=Mus musculus GN=Rpl18a PE=2 SV=1                                    |
| 10  | 26.9  | sp Q88685 PRSB6_MOUSE | 26S protease regulatory subunit 6A OS=Mus musculus GN=Psmc3 PE=2 SV=1                                | 50  | 38.1  | sp O09167 RL21_MOUSE  | 60S ribosomal protein L21 OS=Mus musculus GN=Rpl21 PE=2 SV=3                                      |
| 11  | 32.5  | sp P54775 PRSB6_MOUSE | 26S protease regulatory subunit 6B OS=Mus musculus GN=Psmc4 PE=1 SV=1                                | 51  | 18.8  | sp P67984 RL22_MOUSE  | 60S ribosomal protein L22 OS=Mus musculus GN=Rpl22 PE=2 SV=2                                      |
| 12  | 28.2  | sp P46471 PRST_MOUSE  | 26S protease regulatory subunit 7 OS=Mus musculus GN=Psmc2 PE=1 SV=5                                 | 52  | 47.1  | sp P62830 RL23_MOUSE  | 60S ribosomal protein L23 OS=Mus musculus GN=Rpl23 PE=2 SV=1                                      |
| 13  | 49.8  | sp P62196 PRSB_MOUSE  | 26S protease regulatory subunit 8 OS=Mus musculus GN=Psmc5 PE=1 SV=1                                 | 53  | 40    | sp P27659 RL3_MOUSE   | 60S ribosomal protein L3 OS=Mus musculus GN=Rpl3 PE=2 SV=2                                        |
| 14  | 33.4  | sp P62334 PRSB_MOUSE  | 26S protease regulatory subunit 8 OS=Mus musculus GN=Psmc5 PE=1 SV=1                                 | 54  | 56.5  | sp P62889 RL30_MOUSE  | 60S ribosomal protein L30 OS=Mus musculus GN=Rpl30 PE=2 SV=2                                      |
| 15  | 25    | sp Q9D8W5 PSD12_MOUSE | 26S proteasome non-ATPase regulatory subunit 12 OS=Mus musculus GN=Psm12 PE=2 SV=3                   | 55  | 66.1  | sp Q9D8E6 RL4_MOUSE   | 60S ribosomal protein L4 OS=Mus musculus GN=Rpl4 PE=1 SV=3                                        |
| 16  | 27.9  | sp Q9PVV2 PSD13_MOUSE | 26S proteasome non-ATPase regulatory subunit 13 OS=Mus musculus GN=Psm13 PE=1 SV=1                   | 56  | 38.2  | sp P47911 RL6_MOUSE   | 60S ribosomal protein L6 OS=Mus musculus GN=Rpl6 PE=1 SV=3                                        |
| 17  | 32.6  | sp Q8VDM4 PSMD2_MOUSE | 26S proteasome non-ATPase regulatory subunit 2 OS=Mus musculus GN=Psm2 PE=1 SV=1                     | 57  | 50.7  | sp P14148 RL7_MOUSE   | 60S ribosomal protein L7 OS=Mus musculus GN=Rpl7 PE=2 SV=2                                        |
| 18  | 44.9  | sp P14685 PSMD3_MOUSE | 26S proteasome non-ATPase regulatory subunit 3 OS=Mus musculus GN=Psm3 PE=2 SV=2                     | 58  | 55.6  | sp P12970 RL7A_MOUSE  | 60S ribosomal protein L7a OS=Mus musculus GN=Rpl7a PE=2 SV=2                                      |
| 19  | 23.6  | sp Q8BJY1 PSMD5_MOUSE | 26S proteasome non-ATPase regulatory subunit 5 OS=Mus musculus GN=Psm5 PE=2 SV=4                     | 59  | 41.2  | sp P62918 RL8_MOUSE   | 60S ribosomal protein L8 OS=Mus musculus GN=Rpl8 PE=2 SV=2                                        |
| 20  | 33.7  | sp Q3HX2 HAP2_MOUSE   | 28 kDa heat- and acid-stable phosphoprotein OS=Mus musculus GN=Pdp1 PE=1 SV=1                        | 60  | 40.8  | sp Q9DCD0 PGD_MOUSE   | 6-phosphogluconate dehydrogenase, decarboxylating OS=Mus musculus GN=Pgd PE=2 SV=3                |
| 21  | 31.8  | sp Q9DB15 RM12_MOUSE  | 39S ribosomal protein L12, mitochondrial OS=Mus musculus GN=Mrl12 PE=1 SV=2                          | 61  | 66.7  | sp P20029 GRP78_MOUSE | 78 kDa glucose-regulated protein OS=Mus musculus GN=Hspa5 PE=1 SV=3                               |
| 22  | 34.1  | sp Q08756 HCD2_MOUSE  | 3-hydroxyacyl-CoA dehydrogenase type-2 OS=Mus musculus GN=Hsd17b10 PE=1 SV=4                         | 62  | 20.3  | sp Q8QZT1 THIL_MOUSE  | Acetyl-CoA acetyltransferase, mitochondrial OS=Mus musculus GN=Acat1 PE=1 SV=1                    |
| 23  | 40.8  | sp Q921H8 THIKA_MOUSE | 3-ketoacyl-CoA thiolase A, peroxisomal OS=Mus musculus GN=Acaa1a PE=2 SV=1                           | 63  | 31.3  | sp Q9EST5 AN32B_MOUSE | Acidic leucine-rich nuclear phosphoprotein 32 family member B OS=Mus musculus GN=Anp32b PE=1 SV=1 |
| 24  | 55.6  | sp P62301 RS13_MOUSE  | 40S ribosomal protein S13 OS=Mus musculus GN=Rps13 PE=1 SV=2                                         | 64  | 20    | sp P97822 AN32E_MOUSE | Acidic leucine-rich nuclear phosphoprotein 32 family member E OS=Mus musculus GN=Anp32e PE=1 SV=2 |
| 25  | 58.9  | sp P62264 RS14_MOUSE  | 40S ribosomal protein S14 OS=Mus musculus GN=Rps14 PE=2 SV=3                                         | 65  | 34.5  | sp Q99K10 ACON_MOUSE  | Aconitate hydratase, mitochondrial OS=Mus musculus GN=Aco2 PE=1 SV=1                              |
| 26  | 33.8  | sp P62245 RS15A_MOUSE | 40S ribosomal protein S15a OS=Mus musculus GN=Rps15a PE=2 SV=2                                       | 66  | 72.4  | sp P68134 ACTS_MOUSE  | Actin, alpha skeletal muscle OS=Mus musculus GN=Acta1 PE=1 SV=1                                   |
| 27  | 49.7  | sp Q9CZX8 RS19_MOUSE  | 40S ribosomal protein S19 OS=Mus musculus GN=Rps19 PE=1 SV=3                                         | 67  | 80.3  | sp P60710 ACTB_MOUSE  | Actin, cytoplasmic 1 OS=Mus musculus GN=Actb PE=1 SV=1                                            |
| 28  | 61.1  | sp P25444 RS2_MOUSE   | 40S ribosomal protein S2 OS=Mus musculus GN=Rps2 PE=1 SV=3                                           | 68  | 80.3  | sp P63260 ACTG_MOUSE  | Actin, cytoplasmic 2 OS=Mus musculus GN=Actg1 PE=1 SV=1                                           |
| 29  | 80    | sp P62852 RS25_MOUSE  | 40S ribosomal protein S25 OS=Mus musculus GN=Rps25 PE=2 SV=1                                         | 69  | 33.3  | sp Q9CR21 ACPM_MOUSE  | Acyl carrier protein, mitochondrial OS=Mus musculus GN=Ndufab1 PE=1 SV=1                          |
| 30  | 60.9  | sp P62858 RS28_MOUSE  | 40S ribosomal protein S28 OS=Mus musculus GN=Rps28 PE=2 SV=1                                         | 70  | 43.1  | sp Q9WTP6 KAD2_MOUSE  | Adenylate kinase isoenzyme 2, mitochondrial OS=Mus musculus GN=Ak2 PE=1 SV=4                      |
| 31  | 35.4  | sp P62908 RS3_MOUSE   | 40S ribosomal protein S3 OS=Mus musculus GN=Rps3 PE=1 SV=1                                           | 71  | 37.6  | sp P40124 CAP1_MOUSE  | Adenylyl cyclase-associated protein 1 OS=Mus musculus GN=Cap1 PE=2 SV=3                           |
| 32  | 31.1  | sp P97351 RS3A_MOUSE  | 40S ribosomal protein S3a OS=Mus musculus GN=Rps3a PE=1 SV=3                                         | 72  | 65.8  | sp P48962 ADT1_MOUSE  | ADP/ATP translocase 1 OS=Mus musculus GN=Slc25a4 PE=1 SV=4                                        |
| 33  | 42.6  | sp P62754 RS6_MOUSE   | 40S ribosomal protein S6 OS=Mus musculus GN=Rps6 PE=1 SV=1                                           | 73  | 50.3  | sp P51681 ADT2_MOUSE  | ADP/ATP translocase 2 OS=Mus musculus GN=Slc25a5 PE=1 SV=3                                        |
| 34  | 51.5  | sp P62082 RS7_MOUSE   | 40S ribosomal protein S7 OS=Mus musculus GN=Rps7 PE=2 SV=1                                           | 74  | 56.1  | sp P61750 ARF4_MOUSE  | ADP-ribosylation factor 4 OS=Mus musculus GN=Arf4 PE=2 SV=2                                       |
| 35  | 56.7  | sp P62242 RS8_MOUSE   | 40S ribosomal protein S8 OS=Mus musculus GN=Rps8 PE=1 SV=2                                           | 75  | 28.6  | sp Q8BGQ7 SYAC_MOUSE  | Alanyl-tRNA synthetase, cytoplasmic OS=Mus musculus GN=Aars PE=2 SV=1                             |
| 36  | 26.8  | sp P14208 RSSA_MOUSE  | 40S ribosomal protein SA OS=Mus musculus GN=Rpsa PE=1 SV=4                                           | 76  | 47.2  | sp P47738 ALDH2_MOUSE | Aldehyde dehydrogenase, mitochondrial OS=Mus musculus GN=Aldh2 PE=1 SV=1                          |
| 37  | 35.7  | sp P10852 F2_MOUSE    | 4F2 cell-surface antigen heavy chain OS=Mus musculus GN=Slc3a2 PE=1 SV=1                             | 77  | 34.5  | sp P45376 ALDR_MOUSE  | Aldose reductase OS=Mus musculus GN=Akr1b1 PE=1 SV=3                                              |
| 38  | 69.6  | sp P63038 CH60_MOUSE  | 60 kDa heat shock protein, mitochondrial OS=Mus musculus GN=Hspd1 PE=1 SV=1                          | 78  | 56.3  | sp P09242 PPBT_MOUSE  | Alkaline phosphatase, tissue-nonspecific isozyme OS=Mus musculus GN=Alpi PE=2 SV=1                |
| 39  | 50.5  | sp P14869 RLA0_MOUSE  | 60S acidic ribosomal protein P0 OS=Mus musculus GN=Rplp0 PE=1 SV=3                                   | 79  | 30.8  | sp P55302 AMRP_MOUSE  | Alpha-2-macroglobulin receptor-associated protein OS=Mus musculus GN=Lrpap1 PE=1 SV=1             |
| 40  | 42.1  | sp P47955 RLA1_MOUSE  | 60S acidic ribosomal protein P1 OS=Mus musculus GN=Rplp1 PE=1 SV=1                                   | 80  | 37.1  | sp Q7TPR4 ACTN1_MOUSE | Alpha-actinin-1 OS=Mus musculus GN=Actn1 PE=2 SV=1                                                |

RP-HILIC-LC Complete Protein List (2/7)

| No. | % Cov | Accession #           | Name                                                                               | No. | % Cov | Accession #           | Name                                                                                                          |
|-----|-------|-----------------------|------------------------------------------------------------------------------------|-----|-------|-----------------------|---------------------------------------------------------------------------------------------------------------|
| 81  | 42.9  | sp P57780 ACTN4_MOUSE | Alpha-actinin-4 OS=Mus musculus GN=Actn4 PE=1 SV=1                                 | 121 | 34.4  | sp Q68FD5 CLH_MOUSE   | Clathrin heavy chain 1 OS=Mus musculus GN=Cltc PE=1 SV=3                                                      |
| 82  | 30.3  | sp P23927 CRYAB_MOUSE | Alpha-crystallin B chain OS=Mus musculus GN=Cryab PE=1 SV=2                        | 122 | 27.4  | sp Q6NVF9 CPSF6_MOUSE | Cleavage and polyadenylation specificity factor subunit 6 OS=Mus musculus GN=Cpsf6 PE=1 SV=1                  |
| 83  | 75.3  | sp P17182 ENOA_MOUSE  | Alpha-enolase OS=Mus musculus GN=Eno1 PE=1 SV=3                                    | 123 | 47.4  | sp Q5XJY5 COPD_MOUSE  | Coatomer subunit delta OS=Mus musculus GN=Arcn1 PE=2 SV=1                                                     |
| 84  | 74.3  | sp P10107 ANXA1_MOUSE | Annexin A1 OS=Mus musculus GN=Anxa1 PE=1 SV=2                                      | 124 | 66.9  | sp P18760 COF1_MOUSE  | Cofilin-1 OS=Mus musculus GN=Cf1 PE=1 SV=3                                                                    |
| 85  | 28.4  | sp P97384 ANX11_MOUSE | Annexin A11 OS=Mus musculus GN=Anxa11 PE=1 SV=1                                    | 125 | 32    | sp Q9D1L0 CHCH2_MOUSE | Coiled-coil-helix-coiled-coil-helix domain-containing protein 2, mitochondrial OS=Mus musculus GN=Chchd2 PE=1 |
| 86  | 63.4  | sp P07356 ANXA2_MOUSE | Annexin A2 OS=Mus musculus GN=Anxa2 PE=1 SV=2                                      | 126 | 77.1  | sp P11087 CO1A1_MOUSE | Collagen alpha-1(I) chain OS=Mus musculus GN=Col1a1 PE=1 SV=4                                                 |
| 87  | 36.1  | sp P97429 ANXA4_MOUSE | Annexin A4 OS=Mus musculus GN=Anxa4 PE=2 SV=3                                      | 127 | 55.6  | sp P28481 CO2A1_MOUSE | Collagen alpha-1(II) chain OS=Mus musculus GN=Col2a1 PE=1 SV=2                                                |
| 88  | 51.1  | sp P48036 ANXA5_MOUSE | Annexin A5 OS=Mus musculus GN=Anxa5 PE=1 SV=1                                      | 128 | 35.7  | sp Q04857 CO6A1_MOUSE | Collagen alpha-1(VI) chain OS=Mus musculus GN=Col6a1 PE=2 SV=1                                                |
| 89  | 34.9  | sp P14824 ANXA6_MOUSE | Annexin A6 OS=Mus musculus GN=Anxa6 PE=1 SV=2                                      | 129 | 40.8  | sp Q61245 COBA1_MOUSE | Collagen alpha-1(XI) chain OS=Mus musculus GN=Col11a1 PE=1 SV=1                                               |
| 90  | 35.8  | sp Q35643 AP1B1_MOUSE | AP-1 complex subunit beta-1 OS=Mus musculus GN=Ap1b1 PE=1 SV=1                     | 130 | 75.9  | sp Q01149 CO1A2_MOUSE | Collagen alpha-2(I) chain OS=Mus musculus GN=Col1a2 PE=2 SV=2                                                 |
| 91  | 20.4  | sp Q920X1 AIFM1_MOUSE | Apoptosis-inducing factor 1, mitochondrial OS=Mus musculus GN=Aifm1 PE=1 SV=1      | 131 | 28.4  | sp Q35658 C1QBP_MOUSE | Complement component 1 Q subcomponent-binding protein, mitochondrial OS=Mus musculus GN=C1qbp PE=1 SV=1       |
| 92  | 18    | sp Q61024 ASNS_MOUSE  | Asparagine synthetase [glutamine-hydrolyzing] OS=Mus musculus GN=Asns PE=2 SV=3    | 132 | 47.1  | sp Q08997 ATOX1_MOUSE | Copper transport protein ATOX1 OS=Mus musculus GN=Atox1 PE=2 SV=1                                             |
| 93  | 20.6  | sp Q8BP47 SYNC_MOUSE  | Asparagyl-tRNA synthetase, cytoplasmic OS=Mus musculus GN=Nars PE=1 SV=2           | 133 | 55.6  | sp Q9QZQ8 H2AY_MOUSE  | Core histone macro-H2A.1 OS=Mus musculus GN=H2afy PE=1 SV=3                                                   |
| 94  | 42.1  | sp Q070133 DHX9_MOUSE | Aspartate aminotransferase, cytoplasmic OS=Mus musculus GN=Got1 PE=1 SV=2          | 134 | 8.8   | sp Q64449 MRC2_MOUSE  | C-type mannose receptor 2 OS=Mus musculus GN=Mrc2 PE=1 SV=2                                                   |
| 95  | 59.3  | sp P05202 AATM_MOUSE  | Aspartate aminotransferase, mitochondrial OS=Mus musculus GN=Got2 PE=1 SV=1        | 135 | 31.5  | sp Q6ZQ38 CAND1_MOUSE | Cullin-associated NEDD8-dissociated protein 1 OS=Mus musculus GN=Cand1 PE=2 SV=2                              |
| 96  | 58.6  | sp Q03265 ATPA_MOUSE  | ATP synthase subunit alpha, mitochondrial OS=Mus musculus GN=Atp5a1 PE=1 SV=1      | 136 | 40.9  | sp P97314 CSR2_MOUSE  | Cysteine and glycine-rich protein 2 OS=Mus musculus GN=Csrp2 PE=2 SV=3                                        |
| 97  | 83.6  | sp P56480 ATPB_MOUSE  | ATP synthase subunit beta, mitochondrial OS=Mus musculus GN=Atp5b PE=1 SV=2        | 137 | 31.3  | sp Q9C213 QCR1_MOUSE  | Cytochrome b-c1 complex subunit 1, mitochondrial OS=Mus musculus GN=Uqcrc1 PE=1 SV=1                          |
| 98  | 47.8  | sp Q9DCX2 ATP5H_MOUSE | ATP synthase subunit d, mitochondrial OS=Mus musculus GN=Atp5h PE=1 SV=3           | 138 | 20.2  | sp P99028 QCR6_MOUSE  | Cytochrome b-c1 complex subunit 6, mitochondrial OS=Mus musculus GN=Uqcrh PE=1 SV=2                           |
| 99  | 57.7  | sp Q9D3D9 ATPD_MOUSE  | ATP synthase subunit delta, mitochondrial OS=Mus musculus GN=Atp5d PE=1 SV=1       | 139 | 41.8  | sp P12787 COX5A_MOUSE | Cytochrome c oxidase subunit 5A, mitochondrial OS=Mus musculus GN=Cox5a PE=1 SV=2                             |
| 100 | 18.9  | sp Q91V92 ACLY_MOUSE  | ATP-citrate synthase OS=Mus musculus GN=Acly PE=1 SV=1                             | 140 | 18    | sp P19536 COX5B_MOUSE | Cytochrome c oxidase subunit 5B, mitochondrial OS=Mus musculus GN=Cox5b PE=1 SV=1                             |
| 101 | 25.6  | sp Q070133 DHX9_MOUSE | ATP-dependent RNA helicase A OS=Mus musculus GN=Dhx9 PE=1 SV=2                     | 141 | 41.9  | sp P56391 CX6B1_MOUSE | Cytochrome c oxidase subunit Vlb isoform 1 OS=Mus musculus GN=Cox6b1 PE=1 SV=2                                |
| 102 | 16.2  | sp Q91VR5 DDX1_MOUSE  | ATP-dependent RNA helicase DDX1 OS=Mus musculus GN=Ddx1 PE=2 SV=1                  | 142 | 66.7  | sp P62897 CYC_MOUSE   | Cytochrome c, somatic OS=Mus musculus GN=Cycc PE=1 SV=2                                                       |
| 103 | 43.2  | sp Q62167 DDX3X_MOUSE | ATP-dependent RNA helicase DDX3X OS=Mus musculus GN=Ddx3x PE=1 SV=3                | 143 | 59.3  | sp Q8BMK4 CKAP4_MOUSE | Cytoskeleton-associated protein 4 OS=Mus musculus GN=Ckap4 PE=2 SV=2                                          |
| 104 | 61.3  | sp P21550 ENOB_MOUSE  | Beta-enolase OS=Mus musculus GN=Eno3 PE=1 SV=3                                     | 144 | 30.3  | sp Q9CPY7 AMPL_MOUSE  | Cytosol aminopeptidase OS=Mus musculus GN=Lap3 PE=1 SV=3                                                      |
| 105 | 14    | sp P12265 BGLR_MOUSE  | Beta-glucuronidase OS=Mus musculus GN=Gusb PE=2 SV=1                               | 145 | 38.1  | sp Q61753 SERA_MOUSE  | D-3-phosphoglycerate dehydrogenase OS=Mus musculus GN=Phgdh PE=1 SV=3                                         |
| 106 | 26.9  | sp Q8CGC7 SYEP_MOUSE  | Bifunctional aminoacyl-tRNA synthetase OS=Mus musculus GN=Eprs PE=2 SV=3           | 146 | 40.3  | sp Q9Z110 P5CS_MOUSE  | Delta-1-pyrroline-5-carboxylate synthetase OS=Mus musculus GN=Aldh18a1 PE=2 SV=1                              |
| 107 | 42.2  | sp Q9CW99 PUR9_MOUSE  | Bifunctional purine biosynthesis protein PURH OS=Mus musculus GN=Atic PE=1 SV=2    | 147 | 26.9  | sp Q08749 DLDH_MOUSE  | Dihydrolipoyl dehydrogenase, mitochondrial OS=Mus musculus GN=Dld PE=1 SV=2                                   |
| 108 | 5.9   | sp Q63810 CANB1_MOUSE | Calcineurin subunit B type 1 OS=Mus musculus GN=Ppp3r1 PE=1 SV=3                   | 148 | 34.6  | sp Q8BMF4 JODP_MOUSE  | Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex,                    |
| 109 | 54.4  | sp P62204 CALM_MOUSE  | Calmodulin OS=Mus musculus GN=Calm1 PE=1 SV=2                                      | 149 | 12.5  | sp Q3U1J4 DDB1_MOUSE  | DNA damage-binding protein 1 OS=Mus musculus GN=Ddb1 PE=1 SV=2                                                |
| 110 | 22.5  | sp P35564 CALX_MOUSE  | Calnexin OS=Mus musculus GN=Canx PE=1 SV=1                                         | 150 | 21.1  | sp P25206 MCM3_MOUSE  | DNA replication licensing factor MCM3 OS=Mus musculus GN=Mcm3 PE=1 SV=2                                       |
| 111 | 13.9  | sp Q9DAV9 CNN3_MOUSE  | Calponin-3 OS=Mus musculus GN=Cnn3 PE=2 SV=1                                       | 151 | 31    | sp P49717 MCM4_MOUSE  | DNA replication licensing factor MCM4 OS=Mus musculus GN=Mcm4 PE=2 SV=1                                       |
| 112 | 62.5  | sp P14211 CALR_MOUSE  | Calreticulin OS=Mus musculus GN=Calr PE=1 SV=1                                     | 152 | 20.8  | sp P28352 APEX1_MOUSE | DNA-(apurinic or apyrimidinic site) lyase OS=Mus musculus GN=Apex1 PE=1 SV=2                                  |
| 113 | 37.1  | sp Q35887 CALU_MOUSE  | Calumenin OS=Mus musculus GN=Calu PE=1 SV=1                                        | 153 | 21.1  | sp Q54734 OST48_MOUSE | Dolichyl-diphosphooligosaccharide—protein glycosyltransferase 48 kDa subunit OS=Mus musculus GN=Ddost PE=1    |
| 114 | 27.4  | sp P30999 CTND1_MOUSE | Catenin delta-1 OS=Mus musculus GN=Ctnnd1 PE=1 SV=2                                | 154 | 53    | sp Q91YQ5 IRPN1_MOUSE | Dolichyl-diphosphooligosaccharide—protein glycosyltransferase subunit 1 OS=Mus musculus GN=Rpn1 PE=2 SV=1     |
| 115 | 11.8  | sp P10605 CATB_MOUSE  | Cathepsin B OS=Mus musculus GN=Ctsb PE=1 SV=2                                      | 155 | 34.4  | sp Q9DBG6 IRPN2_MOUSE | Dolichyl-diphosphooligosaccharide—protein glycosyltransferase subunit 2 OS=Mus musculus GN=Rpn2 PE=2 SV=1     |
| 116 | 18.8  | sp P18242 CATD_MOUSE  | Cathepsin D OS=Mus musculus GN=Ctsd PE=1 SV=1                                      | 156 | 52.2  | sp P61804 DAD1_MOUSE  | Dolichyl-diphosphooligosaccharide—protein glycosyltransferase subunit DAD1 OS=Mus musculus GN=Dad1 PE=2       |
| 117 | 14.7  | sp Q07113 MPRI_MOUSE  | Cation-independent mannose-6-phosphate receptor OS=Mus musculus GN=Igf2r PE=1 SV=1 | 157 | 35.1  | sp Q9D6N5 NC2A_MOUSE  | Dr1-associated corepressor OS=Mus musculus GN=Drp1 PE=2 SV=3                                                  |
| 118 | 20.9  | sp Q6A068 CDC5L_MOUSE | Cell division cycle 5-related protein OS=Mus musculus GN=Cdc5l PE=1 SV=2           | 158 | 16.7  | sp Q07481 UBR1_MOUSE  | E3 ubiquitin-protein ligase UBR1 OS=Mus musculus GN=Ubr1 PE=1 SV=1                                            |
| 119 | 42.3  | sp Q9QYB1 CLIC4_MOUSE | Chloride intracellular channel protein 4 OS=Mus musculus GN=Clic4 PE=1 SV=3        | 159 | 15    | sp A2AN08 UBR4_MOUSE  | E3 ubiquitin-protein ligase UBR4 OS=Mus musculus GN=Ubr4 PE=1 SV=1                                            |
| 120 | 37.1  | sp Q9CZU6 CISY_MOUSE  | Citrate synthase, mitochondrial OS=Mus musculus GN=Cs PE=1 SV=1                    | 160 | 34.4  | sp P70372 ELAV1_MOUSE | ELAV-like protein 1 OS=Mus musculus GN=Elavl1 PE=1 SV=1                                                       |

RP-HILIC-LC Complete Protein List (3/7)

| No. | % Cov | Accession #            | Name                                                                                                          | No. | % Cov | Accession #           | Name                                                                                                  |
|-----|-------|------------------------|---------------------------------------------------------------------------------------------------------------|-----|-------|-----------------------|-------------------------------------------------------------------------------------------------------|
| 161 | 34.8  | sp Q99LC5 ETFA_MOUSE   | Electron transfer flavoprotein subunit alpha, mitochondrial OS=Mus musculus GN=Etfa PE=1 SV=2                 | 201 | 20.7  | sp Q9R0N0 GALK1_MOUSE | Galactokinase OS=Mus musculus GN=Galk1 PE=2 SV=1                                                      |
| 162 | 55.3  | sp Q9DCW4 ETFB_MOUSE   | Electron transfer flavoprotein subunit beta OS=Mus musculus GN=Etfb PE=1 SV=3                                 | 202 | 74.8  | sp P16045 LEG1_MOUSE  | Galectin-1 OS=Mus musculus GN=Lgals1 PE=1 SV=3                                                        |
| 163 | 81.6  | sp P10126 EF1A1_MOUSE  | Elongation factor 1-alpha 1 OS=Mus musculus GN=Eef1a1 PE=1 SV=3                                               | 203 | 37.7  | sp P13020 GELS_MOUSE  | Gelsolin OS=Mus musculus GN=Gsn PE=1 SV=3                                                             |
| 164 | 35.1  | sp Q070251 EF1B_MOUSE  | Elongation factor 1-beta OS=Mus musculus GN=Eef1b PE=1 SV=5                                                   | 204 | 19.3  | sp Q9Z120 USO1_MOUSE  | General vesicular transport factor p115 OS=Mus musculus GN=Uso1 PE=2 SV=2                             |
| 165 | 52    | sp P57776 EF1D_MOUSE   | Elongation factor 1-delta OS=Mus musculus GN=Eef1d PE=1 SV=3                                                  | 205 | 25.4  | sp P06745 G6PI_MOUSE  | Glucose-6-phosphate isomerase OS=Mus musculus GN=Gpi PE=1 SV=4                                        |
| 166 | 42.6  | sp Q9D8N0 EF1G_MOUSE   | Elongation factor 1-gamma OS=Mus musculus GN=Eef1g PE=1 SV=3                                                  | 206 | 18    | sp O08795 GLU2B_MOUSE | Glucosidase 2 subunit beta OS=Mus musculus GN=Prkcsb PE=1 SV=1                                        |
| 167 | 50.6  | sp P58252 EF2_MOUSE    | Elongation factor 2 OS=Mus musculus GN=Eef2 PE=1 SV=2                                                         | 207 | 19    | sp P17439 GLCM_MOUSE  | Glucosylceramidase OS=Mus musculus GN=Gba PE=1 SV=1                                                   |
| 168 | 33.4  | sp Q8BFR5 EFTU_MOUSE   | Elongation factor Tu, mitochondrial OS=Mus musculus GN=Tufm PE=1 SV=1                                         | 208 | 26.9  | sp P26443 DHE3_MOUSE  | Glutamate dehydrogenase 1, mitochondrial OS=Mus musculus GN=Glud1 PE=1 SV=1                           |
| 169 | 43.9  | sp P08113 ENPL_MOUSE   | Endoplasmin OS=Mus musculus GN=Hsp90b1 PE=1 SV=2                                                              | 209 | 19.6  | sp P47791 GSHR_MOUSE  | Glutathione reductase, mitochondrial OS=Mus musculus GN=Gsr PE=2 SV=3                                 |
| 170 | 68.3  | sp Q9JIX0 ENY2_MOUSE   | Enhancer of yellow 2 transcription factor homolog OS=Mus musculus GN=Eny2 PE=2 SV=1                           | 210 | 37.6  | sp P19157 GSTP1_MOUSE | Glutathione S-transferase P 1 OS=Mus musculus GN=Gstp1 PE=1 SV=2                                      |
| 171 | 13.9  | sp Q3TLP5 ECHD2_MOUSE  | Enoyl-CoA hydratase domain-containing protein 2, mitochondrial OS=Mus musculus GN=Echdc2 PE=2 SV=2            | 211 | 75.4  | sp P16858 G3P_MOUSE   | Glyceraldehyde-3-phosphate dehydrogenase OS=Mus musculus GN=Gapdh PE=1 SV=2                           |
| 172 | 16.8  | sp Q9Z0J0 NPC2_MOUSE   | Epididymal secretory protein E1 OS=Mus musculus GN=Npc2 PE=2 SV=1                                             | 212 | 32.5  | sp Q84521 GPDM_MOUSE  | Glycerol-3-phosphate dehydrogenase, mitochondrial OS=Mus musculus GN=Gpd2 PE=1 SV=2                   |
| 173 | 19.2  | sp Q8R1J0 ERO1A_MOUSE  | ERO1-like protein alpha OS=Mus musculus GN=Ero11 PE=2 SV=1                                                    | 213 | 34.8  | sp Q9C2D3 SYG_MOUSE   | Glycyl-IRNA synthetase OS=Mus musculus GN=Gars PE=1 SV=1                                              |
| 174 | 16.5  | sp Q91V76 CK054_MOUSE  | Ester hydrolase C11orf54 homolog OS=Mus musculus PE=2 SV=1                                                    | 214 | 39.9  | sp Q9CPV4 GLOD4_MOUSE | Glyoxalase domain-containing protein 4 OS=Mus musculus GN=Glod4 PE=2 SV=1                             |
| 175 | 43.3  | sp P60843 IF4A1_MOUSE  | Eukaryotic initiation factor 4A-1 OS=Mus musculus GN=EIF4a1 PE=2 SV=1                                         | 215 | 25.4  | sp Q61543 GSLG1_MOUSE | Golgi apparatus protein 1 OS=Mus musculus GN=Gly1 PE=1 SV=1                                           |
| 176 | 38.4  | sp Q6ZWX6 IF2A_MOUSE   | Eukaryotic translation initiation factor 2 subunit 1 OS=Mus musculus GN=EIF2s1 PE=1 SV=3                      | 216 | 9     | sp P28798 GRN_MOUSE   | Granulins OS=Mus musculus GN=Grn PE=1 SV=2                                                            |
| 177 | 20.8  | sp Q99L45 IF2B_MOUSE   | Eukaryotic translation initiation factor 2 subunit 2 OS=Mus musculus GN=EIF2s2 PE=1 SV=1                      | 217 | 25.5  | sp P62827 RAAN_MOUSE  | GTP-binding nuclear protein Ran OS=Mus musculus GN=Ran PE=1 SV=3                                      |
| 178 | 26.9  | sp Q9Z0N2 IF2H_MOUSE   | Eukaryotic translation initiation factor 2 subunit 3, Y-linked OS=Mus musculus GN=EIF2s3y PE=2 SV=2           | 218 | 19.4  | sp P62880 GBB2_MOUSE  | Guanine nucleotide-binding protein G(i)(g)(s)/G(t) subunit beta-2 OS=Mus musculus GN=Gnb2 PE=1 SV=3   |
| 179 | 24.2  | sp Q8JZQ9 EIF3B_MOUSE  | Eukaryotic translation initiation factor 3 subunit B OS=Mus musculus GN=EIF3b PE=1 SV=1                       | 219 | 23.3  | sp Q6R0H7 GNAS1_MOUSE | Guanine nucleotide-binding protein G(s) subunit alpha isoforms XLAS OS=Mus musculus GN=Gnas PE=2 SV=1 |
| 180 | 33.6  | sp Q70194 EIF3D_MOUSE  | Eukaryotic translation initiation factor 3 subunit D OS=Mus musculus GN=EIF3d PE=1 SV=2                       | 220 | 47    | sp P68040 GBLP_MOUSE  | Guanine nucleotide-binding protein subunit beta-2-like 1 OS=Mus musculus GN=Gnb2l1 PE=1 SV=3          |
| 181 | 19.7  | sp Q8QZY1 IF3E_MOUSE   | Eukaryotic translation initiation factor 3 subunit E-interacting protein OS=Mus musculus GN=EIF3eip PE=2 SV=1 | 221 | 29.8  | sp Q61316 HSP74_MOUSE | Heat shock 70 kDa protein 4 OS=Mus musculus GN=Hspa4 PE=1 SV=1                                        |
| 182 | 19.4  | sp Q9DCH4 EIF3F_MOUSE  | Eukaryotic translation initiation factor 3 subunit F OS=Mus musculus GN=EIF3f PE=2 SV=1                       | 222 | 67.8  | sp P63017 HSP7C_MOUSE | Heat shock cognate 71 kDa protein OS=Mus musculus GN=Hspa8 PE=1 SV=1                                  |
| 183 | 16.3  | sp Q99JX4 EIF3M_MOUSE  | Eukaryotic translation initiation factor 3 subunit M OS=Mus musculus GN=EIF3m PE=2 SV=1                       | 223 | 11.8  | sp Q61699 HS105_MOUSE | Heat shock protein 105 kDa OS=Mus musculus GN=Hsp11 PE=1 SV=2                                         |
| 184 | 27.1  | sp Q6NZJ6 IF4G1_MOUSE  | Eukaryotic translation initiation factor 4 gamma 1 OS=Mus musculus GN=EIF4g1 PE=1 SV=1                        | 224 | 58    | sp P07901 HS90A_MOUSE | Heat shock protein HSP 90-alpha OS=Mus musculus GN=Hsp90aa1 PE=1 SV=4                                 |
| 185 | 28.2  | sp Q920B9 SP16H_MOUSE  | FACT complex subunit SPT16 OS=Mus musculus GN=Supt16h PE=2 SV=2                                               | 225 | 65.7  | sp P11499 HS90B_MOUSE | Heat shock protein HSP 90-beta OS=Mus musculus GN=Hsp90ab1 PE=1 SV=2                                  |
| 186 | 21.3  | sp P47753 CAZA1_MOUSE  | F-actin-capping protein subunit alpha-1 OS=Mus musculus GN=Capza1 PE=1 SV=4                                   | 226 | 38.8  | sp P51859 HDGF_MOUSE  | Hepatoma-derived growth factor OS=Mus musculus GN=Hdgf PE=1 SV=2                                      |
| 187 | 18.9  | sp P47754 CAZA2_MOUSE  | F-actin-capping protein subunit alpha-2 OS=Mus musculus GN=Capza2 PE=1 SV=3                                   | 227 | 53    | sp Q99020 ROAA_MOUSE  | Heterogeneous nuclear ribonucleoprotein A/B OS=Mus musculus GN=Hnmpab PE=1 SV=1                       |
| 188 | 43.7  | sp P47757 CAPZB_MOUSE  | F-actin-capping protein subunit beta OS=Mus musculus GN=Capzb PE=1 SV=3                                       | 228 | 64.1  | sp P49312 ROA1_MOUSE  | Heterogeneous nuclear ribonucleoprotein A1 OS=Mus musculus GN=Hnmpa1 PE=1 SV=2                        |
| 189 | 18.9  | sp Q91WJ8 FUBP1_MOUSE  | Far upstream element-binding protein 1 OS=Mus musculus GN=Fubp1 PE=1 SV=1                                     | 229 | 55.1  | sp Q8BG05 ROA3_MOUSE  | Heterogeneous nuclear ribonucleoprotein A3 OS=Mus musculus GN=Hnmpa3 PE=1 SV=1                        |
| 190 | 28.5  | sp Q3U0V1 FUBP2_MOUSE  | Far upstream element-binding protein 2 OS=Mus musculus GN=Khsrp PE=1 SV=1                                     | 230 | 23.9  | sp Q60668 HNRPD_MOUSE | Heterogeneous nuclear ribonucleoprotein D0 OS=Mus musculus GN=Hnmpd PE=1 SV=2                         |
| 191 | 18.7  | sp Q920E5 FPPS_MOUSE   | Farnesyl pyrophosphate synthetase OS=Mus musculus GN=Fdps PE=2 SV=1                                           | 231 | 26.7  | sp Q9ZZX1 HNRPF_MOUSE | Heterogeneous nuclear ribonucleoprotein F OS=Mus musculus GN=Hnmpf PE=1 SV=3                          |
| 192 | 26    | sp Q61553 FSCN1_MOUSE  | Fascin OS=Mus musculus GN=Fscn1 PE=1 SV=4                                                                     | 232 | 52.8  | sp Q35479 HNRPG_MOUSE | Heterogeneous nuclear ribonucleoprotein G OS=Mus musculus GN=Rbm3 PE=2 SV=1                           |
| 193 | 16.7  | sp P19096 FAS_MOUSE    | Fatty acid synthase OS=Mus musculus GN=Fasn PE=1 SV=2                                                         | 233 | 33.2  | sp Q35737 HNRH1_MOUSE | Heterogeneous nuclear ribonucleoprotein H OS=Mus musculus GN=Hnmp11 PE=1 SV=3                         |
| 194 | 14.3  | sp P11276 FINC_MOUSE   | Fibronectin OS=Mus musculus GN=Fn1 PE=1 SV=3                                                                  | 234 | 61.1  | sp P61979 HNRPK_MOUSE | Heterogeneous nuclear ribonucleoprotein K OS=Mus musculus GN=Hnmpk PE=1 SV=1                          |
| 195 | 37.8  | sp Q88TM8 FLNA_MOUSE   | Filamin-A OS=Mus musculus GN=Flna PE=1 SV=4                                                                   | 235 | 24.7  | sp Q8R081 HNRPL_MOUSE | Heterogeneous nuclear ribonucleoprotein L OS=Mus musculus GN=Hnmp1 PE=1 SV=2                          |
| 196 | 34.3  | sp Q80X90 FLNB_MOUSE   | Filamin-B OS=Mus musculus GN=Flnb PE=2 SV=2                                                                   | 236 | 43.3  | sp Q9D0E1 HNRPM_MOUSE | Heterogeneous nuclear ribonucleoprotein M OS=Mus musculus GN=Hnmpm PE=1 SV=3                          |
| 197 | 30.4  | sp Q8VHX6 FLNC_MOUSE   | Filamin-C OS=Mus musculus GN=Finc PE=1 SV=3                                                                   | 237 | 32.1  | sp Q7TMK9 HNRPQ_MOUSE | Heterogeneous nuclear ribonucleoprotein Q OS=Mus musculus GN=Syncr1 PE=1 SV=2                         |
| 198 | 31.8  | sp P61576 FKBP10_MOUSE | FK506-binding protein 10 OS=Mus musculus GN=Fkbp10 PE=1 SV=1                                                  | 238 | 54.1  | sp Q85569 ROA2_MOUSE  | Heterogeneous nuclear ribonucleoproteins A2/B1 OS=Mus musculus GN=Hnmpa2b1 PE=1 SV=2                  |
| 199 | 49.3  | sp P45878 FKBP2_MOUSE  | FK506-binding protein 2 OS=Mus musculus GN=Fkbp2 PE=1 SV=1                                                    | 239 | 57.8  | sp Q9Z204 HNRPC_MOUSE | Heterogeneous nuclear ribonucleoproteins C1/C2 OS=Mus musculus GN=Hnmpc PE=1 SV=1                     |
| 200 | 73.4  | sp P05064 ALDOA_MOUSE  | Fructose-bisphosphate aldolase A OS=Mus musculus GN=Aldoa PE=1 SV=2                                           | 240 | 28.9  | sp P17710 HKX1_MOUSE  | Hexokinase-1 OS=Mus musculus GN=Hk1 PE=1 SV=2                                                         |

RP-HILIC-LC Complete Protein List (4/7)

| No. | % Cov | Accession #           | Name                                                                                                 | No. | % Cov | Accession #           | Name                                                                                              |
|-----|-------|-----------------------|------------------------------------------------------------------------------------------------------|-----|-------|-----------------------|---------------------------------------------------------------------------------------------------|
| 241 | 43.3  | sp P63158 HMGB1_MOUSE | High mobility group protein B1 OS=Mus musculus GN=Hmgb1 PE=1 SV=2                                    | 281 | 28.5  | sp Q9D358 PPAC_MOUSE  | Low molecular weight phosphotyrosine protein phosphatase OS=Mus musculus GN=Acp1 PE=2 SV=3        |
| 242 | 23.8  | sp P70349 HINT1_MOUSE | Histidine triad nucleotide-binding protein 1 OS=Mus musculus GN=Hint1 PE=1 SV=3                      | 282 | 42.7  | sp P32067 LA_MOUSE    | Lupus La protein homolog OS=Mus musculus GN=Ssb PE=2 SV=1                                         |
| 243 | 41.1  | sp Q61035 SYHC_MOUSE  | Histidyl-tRNA synthetase, cytoplasmic OS=Mus musculus GN=Hars PE=2 SV=1                              | 283 | 9.5   | sp Q924C6 LOXL4_MOUSE | Lysyl oxidase homolog 4 OS=Mus musculus GN=Loxl4 PE=2 SV=1                                        |
| 244 | 47.9  | sp P43275 H11_MOUSE   | Histone H1.1 OS=Mus musculus GN=Hist1h1a PE=2 SV=2                                                   | 284 | 69.6  | sp P34884 MIF_MOUSE   | Macrophage migration inhibitory factor OS=Mus musculus GN=Mif PE=1 SV=2                           |
| 245 | 76.4  | sp P15864 H12_MOUSE   | Histone H1.2 OS=Mus musculus GN=Hist1h1c PE=1 SV=2                                                   | 285 | 33.2  | sp P14152 MDHC_MOUSE  | Malate dehydrogenase, cytoplasmic OS=Mus musculus GN=Mdh1 PE=1 SV=3                               |
| 246 | 91.4  | sp P43277 H13_MOUSE   | Histone H1.3 OS=Mus musculus GN=Hist1h1d PE=1 SV=2                                                   | 286 | 66.9  | sp P08249 MDHM_MOUSE  | Malate dehydrogenase, mitochondrial OS=Mus musculus GN=Mdh2 PE=1 SV=3                             |
| 247 | 81.3  | sp P43274 H14_MOUSE   | Histone H1.4 OS=Mus musculus GN=Hist1h1e PE=1 SV=2                                                   | 287 | 21.9  | sp Q99M71 EPDR1_MOUSE | Mammalian ependymin-related protein 1 OS=Mus musculus GN=Epdr1 PE=2 SV=1                          |
| 248 | 65.5  | sp P43276 H15_MOUSE   | Histone H1.5 OS=Mus musculus GN=Hist1h1b PE=1 SV=2                                                   | 288 | 13.5  | sp Q80UM7 GCS1_MOUSE  | Mannosyl-oligosaccharide glucosidase OS=Mus musculus GN=Gcs1 PE=2 SV=1                            |
| 249 | 85.4  | sp Q8CGP7 H2A1K_MOUSE | Histone H2A type 1-K OS=Mus musculus GN=Hist1h2ak PE=1 SV=3                                          | 289 | 10.3  | sp O55022 PGR1_MOUSE  | Membrane-associated progesterone receptor component 1 OS=Mus musculus GN=Pgrmc1 PE=1 SV=4         |
| 250 | 87.7  | sp Q6GSS7 H2A2A_MOUSE | Histone H2A type 2-A OS=Mus musculus GN=Hist2h2aa1 PE=1 SV=3                                         | 290 | 15.1  | sp Q9C092 FIS1_MOUSE  | Mitochondrial fission 1 protein OS=Mus musculus GN=Fis1 PE=1 SV=1                                 |
| 251 | 98.5  | sp Q64522 H2A2B_MOUSE | Histone H2A type 2-B OS=Mus musculus GN=Hist2h2ab PE=1 SV=3                                          | 291 | 31.6  | sp P62075 TIM13_MOUSE | Mitochondrial import inner membrane translocase subunit Tim13 OS=Mus musculus GN=Timm13 PE=1 SV=1 |
| 252 | 93    | sp Q8R1M2 H2AJ_MOUSE  | Histone H2A.J OS=Mus musculus GN=H2ajf PE=2 SV=1                                                     | 292 | 20.5  | sp Q9CZW5 TOM70_MOUSE | Mitochondrial import receptor subunit TOM70 OS=Mus musculus GN=Tom70a PE=1 SV=1                   |
| 253 | 70.3  | sp Q3THW5 H2AV_MOUSE  | Histone H2A.V OS=Mus musculus GN=H2avf PE=1 SV=3                                                     | 293 | 40.8  | sp Q8CAQ8 IMMT_MOUSE  | Mitochondrial inner membrane protein OS=Mus musculus GN=Immt PE=1 SV=1                            |
| 254 | 73    | sp Q64524 H2B2E_MOUSE | Histone H2B type 2-E OS=Mus musculus GN=Hist2h2be PE=1 SV=3                                          | 294 | 35.1  | sp Q9DC61 MPPA_MOUSE  | Mitochondrial-processing peptidase subunit alpha OS=Mus musculus GN=Pmpca PE=2 SV=1               |
| 255 | 86    | sp P68433 H31_MOUSE   | Histone H3.1 OS=Mus musculus GN=Hist1h3a PE=1 SV=2                                                   | 295 | 52.7  | sp P26041 MOES_MOUSE  | Moesin OS=Mus musculus GN=Msr1 PE=1 SV=3                                                          |
| 256 | 93.4  | sp P84244 H33_MOUSE   | Histone H3.3 OS=Mus musculus GN=H3f3a PE=1 SV=2                                                      | 296 | 19.4  | sp Q3V3R1 C1T1M_MOUSE | Monofunctional C1-tetrahydrofolate synthase, mitochondrial OS=Mus musculus GN=Mthfd1l PE=1 SV=2   |
| 257 | 67    | sp P62806 H4_MOUSE    | Histone H4 OS=Mus musculus GN=Hist1h4a PE=1 SV=2                                                     | 297 | 39    | sp P31230 MCA1_MOUSE  | Multisynthetase complex auxiliary component p43 OS=Mus musculus GN=Scey1 PE=1 SV=2                |
| 258 | 27.8  | sp Q60972 RBBP4_MOUSE | Histone-binding protein RBBP4 OS=Mus musculus GN=Rbbp4 PE=1 SV=4                                     | 298 | 39.9  | sp Q7TPV4 MBB1A_MOUSE | Myb-binding protein 1A OS=Mus musculus GN=Mybbp1a PE=1 SV=2                                       |
| 259 | 22.4  | sp Q60973 RBBP7_MOUSE | Histone-binding protein RBBP7 OS=Mus musculus GN=Rbbp7 PE=1 SV=1                                     | 299 | 62.3  | sp Q60605 MYL6_MOUSE  | Myosin light polypeptide 6 OS=Mus musculus GN=Myf6 PE=1 SV=3                                      |
| 260 | 31.5  | sp Q61425 HCDH_MOUSE  | Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial OS=Mus musculus GN=Hadh PE=1 SV=2                | 300 | 54.7  | sp Q3THE2 MRLC2_MOUSE | Myosin regulatory light chain MRLC2 OS=Mus musculus GN=Myf2b PE=1 SV=2                            |
| 261 | 11.7  | sp Q35343 IMA4_MOUSE  | Importin subunit alpha-4 OS=Mus musculus GN=Kpnab4 PE=2 SV=1                                         | 301 | 45.3  | sp Q61879 MYH10_MOUSE | Myosin-10 OS=Mus musculus GN=Myh10 PE=1 SV=2                                                      |
| 262 | 37.6  | sp P70168 IMB1_MOUSE  | Importin subunit beta-1 OS=Mus musculus GN=Kpnb1 PE=1 SV=1                                           | 302 | 68.2  | sp Q8VDD5 MYH9_MOUSE  | Myosin-9 OS=Mus musculus GN=Myh9 PE=1 SV=4                                                        |
| 263 | 15.8  | sp P24547 IMDH2_MOUSE | Inosine-5'-monophosphate dehydrogenase 2 OS=Mus musculus GN=Impdh2 PE=1 SV=2                         | 303 | 18.3  | sp Q64331 MYO6_MOUSE  | Myosin-VI OS=Mus musculus GN=Myo6 PE=1 SV=1                                                       |
| 264 | 35    | sp Q9D6R2 IDH3A_MOUSE | Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial OS=Mus musculus GN=Idh3a PE=1 SV=1       | 304 | 49.2  | sp P62774 MTPN_MOUSE  | Myotrophin OS=Mus musculus GN=Mtpn PE=2 SV=2                                                      |
| 265 | 50    | sp P54071 IDHP_MOUSE  | Isocitrate dehydrogenase [NADP], mitochondrial OS=Mus musculus GN=Idh2 PE=1 SV=3                     | 305 | 32.7  | sp P26645 MARCS_MOUSE | Myristoylated alanine-rich C-kinase substrate OS=Mus musculus GN=Marcks PE=1 SV=2                 |
| 266 | 33.2  | sp Q3UV17 K22O_MOUSE  | Keratin, type II cytoskeletal 2 oral OS=Mus musculus GN=Krt76 PE=2 SV=1                              | 306 | 42.5  | sp Q9DCN2 NB5R3_MOUSE | NADH-cytochrome b5 reductase 3 OS=Mus musculus GN=Cyb5r3 PE=1 SV=3                                |
| 267 | 38.8  | sp Q6NXH9 K2C73_MOUSE | Keratin, type II cytoskeletal 73 OS=Mus musculus GN=Krt73 PE=2 SV=1                                  | 307 | 30.4  | sp Q06801 MAOX_MOUSE  | NADP-dependent malic enzyme OS=Mus musculus GN=Me1 PE=1 SV=1                                      |
| 268 | 33.9  | sp Q8BGZ7 K2C75_MOUSE | Keratin, type II cytoskeletal 75 OS=Mus musculus GN=Krt75 PE=1 SV=1                                  | 308 | 7.7   | sp O70378 CX4NB_MOUSE | Neighbor of COX4 OS=Mus musculus GN=Cox4nb PE=1 SV=1                                              |
| 269 | 26.5  | sp P11679 K2C8_MOUSE  | Keratin, type II cytoskeletal 8 OS=Mus musculus GN=Krt8 PE=1 SV=4                                    | 309 | 18.5  | sp Q61391 NEP_MOUSE   | Neprilysin OS=Mus musculus GN=Mme PE=2 SV=3                                                       |
| 270 | 43.4  | sp Q61595 KTN1_MOUSE  | Kinectin OS=Mus musculus GN=Ktn1 PE=1 SV=1                                                           | 310 | 33.9  | sp Q8BH3 GANAB_MOUSE  | Neutral alpha-glucosidase AB OS=Mus musculus GN=Ganab PE=1 SV=1                                   |
| 271 | 26.4  | sp P08071 TRFL_MOUSE  | Lactotransferrin OS=Mus musculus GN=Ltf PE=2 SV=3                                                    | 311 | 12.9  | sp Q99MD9 NASP_MOUSE  | Nuclear autoantigenic sperm protein OS=Mus musculus GN=Nasp PE=1 SV=2                             |
| 272 | 75.9  | sp P48678 LMNA_MOUSE  | Lamin A/C OS=Mus musculus GN=Lmna PE=1 SV=2                                                          | 312 | 52.4  | sp O35685 NUDC_MOUSE  | Nuclear migration protein nudC OS=Mus musculus GN=Nudc PE=1 SV=1                                  |
| 273 | 25.2  | sp Q61029 LAP2B_MOUSE | Lamina-associated polypeptide 2, isoforms beta/delta/epsilon/gamma OS=Mus musculus GN=Lmpo PE=1 SV=3 | 313 | 36.2  | sp Q02819 NUCB1_MOUSE | Nucleobindin-1 OS=Mus musculus GN=Nucb1 PE=1 SV=2                                                 |
| 274 | 51.9  | sp P14733 LMNB1_MOUSE | Lamin-B1 OS=Mus musculus GN=Lmnb1 PE=1 SV=3                                                          | 314 | 13.7  | sp Q3UFM5 NOM1_MOUSE  | Nucleolar MIF4G domain-containing protein 1 OS=Mus musculus GN=Nom1 PE=2 SV=1                     |
| 275 | 5.4   | sp P70202 LXN_MOUSE   | Latexin OS=Mus musculus GN=Lxn PE=1 SV=2                                                             | 315 | 31.3  | sp Q9JIK5 DDX21_MOUSE | Nucleolar RNA helicase 2 OS=Mus musculus GN=Ddx21 PE=1 SV=2                                       |
| 276 | 32.8  | sp Q6PB66 LPPRC_MOUSE | Leucine-rich PPR motif-containing protein, mitochondrial OS=Mus musculus GN=Lrpprc PE=1 SV=2         | 316 | 58.3  | sp P09405 NUCL_MOUSE  | Nucleolin OS=Mus musculus GN=Ncl PE=1 SV=2                                                        |
| 277 | 49.5  | sp Q922Q8 LRC59_MOUSE | Leucine-rich repeat-containing protein 59 OS=Mus musculus GN=Lrrc59 PE=2 SV=1                        | 317 | 44.2  | sp Q61937 NPM_MOUSE   | Nucleophosmin OS=Mus musculus GN=Npm1 PE=1 SV=1                                                   |
| 278 | 24.4  | sp Q8BMJ2 SYLC_MOUSE  | Leucyl-tRNA synthetase, cytoplasmic OS=Mus musculus GN=Lars PE=2 SV=2                                | 318 | 64.5  | sp Q01768 NDKB_MOUSE  | Nucleoside diphosphate kinase B OS=Mus musculus GN=Nme2 PE=1 SV=1                                 |
| 279 | 55.1  | sp P06151 LDHA_MOUSE  | L-lactate dehydrogenase A chain OS=Mus musculus GN=Ldha PE=1 SV=3                                    | 319 | 34.5  | sp P28656 NP1L1_MOUSE | Nucleosome assembly protein 1-like 1 OS=Mus musculus GN=Nap1l1 PE=1 SV=2                          |
| 280 | 47    | sp P16125 LDHB_MOUSE  | L-lactate dehydrogenase B chain OS=Mus musculus GN=Ldhb PE=1 SV=2                                    | 320 | 27.5  | sp Q9CZ30 OLA1_MOUSE  | Obg-like ATPase 1 OS=Mus musculus GN=Ola1 PE=1 SV=1                                               |

RP-HILIC-LC Complete Protein List (5/7)

| No. | % Cov | Accession #           | Name                                                                                          | No. | % Cov | Accession #            | Name                                                                                                  |
|-----|-------|-----------------------|-----------------------------------------------------------------------------------------------|-----|-------|------------------------|-------------------------------------------------------------------------------------------------------|
| 321 | 60.4  | sp P17742 PPIA_MOUSE  | Peptidyl-prolyl cis-trans isomerase A OS=Mus musculus GN=Ppia PE=1 SV=2                       | 361 | 8.8   | sp Q60692 PSB6_MOUSE   | Proteasome subunit beta type-6 OS=Mus musculus GN=Psmb6 PE=1 SV=3                                     |
| 322 | 33.8  | sp P24369 PPIB_MOUSE  | Peptidyl-prolyl cis-trans isomerase B OS=Mus musculus GN=Ppib PE=2 SV=2                       | 362 | 7.3   | sp Q9JIF0 ANM1_MOUSE   | Protein arginine N-methyltransferase 1 OS=Mus musculus GN=Prmt1 PE=1 SV=1                             |
| 323 | 41.5  | sp P30412 PPIC_MOUSE  | Peptidyl-prolyl cis-trans isomerase C OS=Mus musculus GN=Ppic PE=1 SV=1                       | 363 | 41.3  | sp Q9CXI5 ARMET_MOUSE  | Protein ARMET OS=Mus musculus GN=Armet PE=1 SV=1                                                      |
| 324 | 30.4  | sp Q8R2Y8 PTH2_MOUSE  | Peptidyl-tRNA hydrolase 2, mitochondrial OS=Mus musculus GN=Pthr2 PE=2 SV=1                   | 364 | 16.5  | sp Q9QXT0 CNPY2_MOUSE  | Protein canopy homolog 2 OS=Mus musculus GN=Cnpy2 PE=2 SV=1                                           |
| 325 | 74.9  | sp P35700 PRDX1_MOUSE | Peroxiredoxin-1 OS=Mus musculus GN=Prdx1 PE=1 SV=1                                            | 365 | 61    | sp P27773 PDIA3_MOUSE  | Protein disulfide-isomerase A3 OS=Mus musculus GN=Pdia3 PE=1 SV=2                                     |
| 326 | 60.6  | sp Q61171 PRDX2_MOUSE | Peroxiredoxin-2 OS=Mus musculus GN=Prdx2 PE=1 SV=3                                            | 366 | 20.2  | sp P08003 PDIA4_MOUSE  | Protein disulfide-isomerase A4 OS=Mus musculus GN=Pdia4 PE=1 SV=2                                     |
| 327 | 39.4  | sp Q08807 PRDX4_MOUSE | Peroxiredoxin-4 OS=Mus musculus GN=Prdx4 PE=1 SV=1                                            | 367 | 43.9  | sp Q922R8 PDIA6_MOUSE  | Protein disulfide-isomerase A6 OS=Mus musculus GN=Pdia6 PE=1 SV=3                                     |
| 328 | 62.4  | sp P99029 PRDX5_MOUSE | Peroxiredoxin-5, mitochondrial OS=Mus musculus GN=Prdx5 PE=1 SV=2                             | 368 | 64.4  | sp P09103 PDIA1_MOUSE  | Protein disulfide-isomerase OS=Mus musculus GN=P4hb PE=1 SV=1                                         |
| 329 | 23.2  | sp Q08709 PRDX6_MOUSE | Peroxiredoxin-6 OS=Mus musculus GN=Prdx6 PE=1 SV=3                                            | 369 | 36.5  | sp Q99LX0 PARK7_MOUSE  | Protein DJ-1 OS=Mus musculus GN=Park7 PE=1 SV=1                                                       |
| 330 | 48.1  | sp P70296 PEBP1_MOUSE | Phosphatidylethanolamine-binding protein 1 OS=Mus musculus GN=Pebp1 PE=1 SV=3                 | 370 | 59.6  | sp Q99LX0 DPY30_MOUSE  | Protein dpy-30 homolog OS=Mus musculus GN=Dpy30 PE=2 SV=1                                             |
| 331 | 29.7  | sp Q8BH04 PPCKM_MOUSE | Phosphoenolpyruvate carboxykinase [GTP], mitochondrial OS=Mus musculus GN=Pck2 PE=2 SV=1      | 371 | 24.4  | sp Q9D0F3 LMAN1_MOUSE  | Protein ERGIC-53 OS=Mus musculus GN=Lman1 PE=2 SV=1                                                   |
| 332 | 77.2  | sp P09411 PGK1_MOUSE  | Phosphoglycerate kinase 1 OS=Mus musculus GN=Pgk1 PE=1 SV=4                                   | 372 | 25.3  | sp Q61074 PPM1G_MOUSE  | Protein phosphatase 1G OS=Mus musculus GN=Ppm1g PE=2 SV=3                                             |
| 333 | 62.6  | sp Q9DBJ1 PGAM1_MOUSE | Phosphoglycerate mutase 1 OS=Mus musculus GN=Pgam1 PE=1 SV=3                                  | 373 | 38.1  | sp P08207 S10AA_MOUSE  | Protein S100-A10 OS=Mus musculus GN=S100a10 PE=2 SV=2                                                 |
| 334 | 27.7  | sp Q99VJ3 PGCP_MOUSE  | Plasma glutamate carboxypeptidase OS=Mus musculus GN=Pgcp PE=2 SV=1                           | 374 | 30.6  | sp P50543 S10AB_MOUSE  | Protein S100-A11 OS=Mus musculus GN=S100a11 PE=2 SV=1                                                 |
| 335 | 45.1  | sp Q99K51 PLST_MOUSE  | Plastin-3 OS=Mus musculus GN=Pls3 PE=1 SV=2                                                   | 375 | 45.7  | sp Q9EQU5 SET_MOUSE    | Protein SET OS=Mus musculus GN=Set PE=1 SV=1                                                          |
| 336 | 38.4  | sp Q9QXS1 PLEC1_MOUSE | Plectin-1 OS=Mus musculus GN=Plec1 PE=1 SV=2                                                  | 376 | 28.2  | sp Q01405 SC23A_MOUSE  | Protein transport protein Sec23A OS=Mus musculus GN=Sec23a PE=1 SV=2                                  |
| 337 | 42.4  | sp P60335 PCBP1_MOUSE | Poly(rC)-binding protein 1 OS=Mus musculus GN=Pcbp1 PE=1 SV=1                                 | 377 | 13.6  | sp Q9D662 SC23B_MOUSE  | Protein transport protein Sec23B OS=Mus musculus GN=Sec23b PE=2 SV=1                                  |
| 338 | 40.6  | sp Q61990 PCBP2_MOUSE | Poly(rC)-binding protein 2 OS=Mus musculus GN=Pcbp2 PE=1 SV=1                                 | 378 | 16.1  | sp Q3UPL0 SC31A_MOUSE  | Protein transport protein Sec31A OS=Mus musculus GN=Sec31a PE=1 SV=2                                  |
| 339 | 35.4  | sp P29341 PABP1_MOUSE | Polyadenylate-binding protein 1 OS=Mus musculus GN=Pabpc1 PE=1 SV=1                           | 379 | 15.7  | sp Q99K05 UN45A_MOUSE  | Protein unc-45 homolog A OS=Mus musculus GN=Unc45a PE=1 SV=2                                          |
| 340 | 38    | sp P17225 PTBP1_MOUSE | Polypyrimidine tract-binding protein 1 OS=Mus musculus GN=Ptbp1 PE=1 SV=2                     | 380 | 13.2  | sp Q9R1Q7 PLP2_MOUSE   | Proteolipid protein 2 OS=Mus musculus GN=Plp2 PE=2 SV=1                                               |
| 341 | 11.1  | sp Q99KF6 PRP19_MOUSE | Pre-mRNA-processing factor 19 OS=Mus musculus GN=Prpf19 PE=2 SV=1                             | 381 | 22.5  | sp P26350 PTMA_MOUSE   | Prothymosin alpha OS=Mus musculus GN=Ptma PE=1 SV=2                                                   |
| 342 | 33.3  | sp Q8K009 AL1L2_MOUSE | Probable 10-formyltetrahydrofolate dehydrogenase ALDH1L2 OS=Mus musculus GN=Aldh1l2 PE=2 SV=1 | 382 | 22.7  | sp Q3TCN2 PLBL2_MOUSE  | Putative phospholipase B-like 2 OS=Mus musculus PE=1 SV=2                                             |
| 343 | 16.4  | sp Q3U186 SYRM_MOUSE  | Probable arginyl-tRNA synthetase, mitochondrial OS=Mus musculus GN=Rars2 PE=2 SV=1            | 383 | 34.1  | sp Q35286 DHX15_MOUSE  | Putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15 OS=Mus musculus GN=Dhx15 PE=2 SV=2 |
| 344 | 46.3  | sp Q61656 DDX5_MOUSE  | Probable ATP-dependent RNA helicase DDX5 OS=Mus musculus GN=Ddx5 PE=2 SV=1                    | 384 | 44.4  | sp Q89086 RBM3_MOUSE   | Putative RNA-binding protein 3 OS=Mus musculus GN=Rbm3 PE=2 SV=1                                      |
| 345 | 15.6  | sp Q4U2R1 HERC2_MOUSE | Probable E3 ubiquitin-protein ligase HERC2 OS=Mus musculus GN=Herc2 PE=2 SV=2                 | 385 | 22.5  | sp Q922Q4 P5CR2_MOUSE  | Pyrroline-5-carboxylate reductase 2 OS=Mus musculus GN=Pycr2 PE=2 SV=1                                |
| 346 | 31.9  | sp Q8BWU5 OSGEP_MOUSE | Probable O-sialoglycoprotein endopeptidase OS=Mus musculus GN=Osgep PE=2 SV=2                 | 386 | 27.3  | sp Q9D051 ODPB_MOUSE   | Pyruvate dehydrogenase E1 component subunit beta, mitochondrial OS=Mus musculus GN=Pdhb PE=1 SV=1     |
| 347 | 15.9  | sp Q9R0B9 PLOD2_MOUSE | Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 OS=Mus musculus GN=Plod2 PE=2 SV=1          | 387 | 75.1  | sp P52480 KPYM_MOUSE   | Pyruvate kinase isozymes M1/M2 OS=Mus musculus GN=Pkm2 PE=1 SV=4                                      |
| 348 | 20.6  | sp Q9R0E1 PLOD3_MOUSE | Procollagen-lysine,2-oxoglutarate 5-dioxygenase 3 OS=Mus musculus GN=Plod3 PE=2 SV=1          | 388 | 39.3  | sp Q61598 GDIIB_MOUSE  | Rab GDP dissociation inhibitor beta OS=Mus musculus GN=Gdi2 PE=1 SV=1                                 |
| 349 | 52.1  | sp P62962 PROF1_MOUSE | Profilin-1 OS=Mus musculus GN=Pfn1 PE=1 SV=2                                                  | 389 | 30.4  | sp P26043 RADI_MOUSE   | Radixin OS=Mus musculus GN=Rdx PE=1 SV=2                                                              |
| 350 | 51.5  | sp P67778 PHB_MOUSE   | Prohibitin OS=Mus musculus GN=Phb PE=1 SV=1                                                   | 390 | 19.9  | sp P97379 G3BP2_MOUSE  | Ras GTPase-activating protein-binding protein 2 OS=Mus musculus GN=G3bp2 PE=1 SV=2                    |
| 351 | 57.2  | sp Q35129 PHB2_MOUSE  | Prohibitin-2 OS=Mus musculus GN=Phb2 PE=1 SV=1                                                | 391 | 35.8  | sp Q9JKF1 IQGAP1_MOUSE | Ras GTPase-activating-like protein IQGAP1 OS=Mus musculus GN=Iqgap1 PE=1 SV=1                         |
| 352 | 34.8  | sp P50580 PA2G4_MOUSE | Proliferation-associated protein 2G4 OS=Mus musculus GN=Pa2g4 PE=1 SV=3                       | 392 | 41.1  | sp P63001 RAC1_MOUSE   | Ras-related C3 botulinum toxin substrate 1 OS=Mus musculus GN=Rac1 PE=1 SV=1                          |
| 353 | 57.9  | sp Q60715 P4HA1_MOUSE | Prolyl 4-hydroxylase subunit alpha-1 OS=Mus musculus GN=P4ha1 PE=2 SV=2                       | 393 | 31    | sp P61027 RAB10_MOUSE  | Ras-related protein Rab-10 OS=Mus musculus GN=Rab10 PE=1 SV=1                                         |
| 354 | 25.1  | sp Q60716 P4HA2_MOUSE | Prolyl 4-hydroxylase subunit alpha-2 OS=Mus musculus GN=P4ha2 PE=2 SV=1                       | 394 | 34.9  | sp Q91V41 RAB14_MOUSE  | Ras-related protein Rab-14 OS=Mus musculus GN=Rab14 PE=1 SV=3                                         |
| 355 | 25    | sp Q9R0Q7 TEBP_MOUSE  | Prostaglandin E synthase 3 OS=Mus musculus GN=Ptges3 PE=1 SV=1                                | 395 | 52.7  | sp P62821 RAB1A_MOUSE  | Ras-related protein Rab-1A OS=Mus musculus GN=Rab1A PE=1 SV=3                                         |
| 356 | 42.2  | sp P97371 PSME1_MOUSE | Proteasome activator complex subunit 1 OS=Mus musculus GN=Psmc1 PE=2 SV=2                     | 396 | 40.6  | sp P53994 RAB2A_MOUSE  | Ras-related protein Rab-2A OS=Mus musculus GN=Rab2a PE=1 SV=1                                         |
| 357 | 24.3  | sp P97372 PSME2_MOUSE | Proteasome activator complex subunit 2 OS=Mus musculus GN=Psmc2 PE=2 SV=4                     | 397 | 62.3  | sp P51150 RAB7A_MOUSE  | Ras-related protein Rab-7a OS=Mus musculus GN=Rab7a PE=1 SV=2                                         |
| 358 | 18    | sp Q70435 PSA3_MOUSE  | Proteasome subunit alpha type-3 OS=Mus musculus GN=Psm3 PE=1 SV=3                             | 398 | 32.6  | sp Q9JMI6 RAP1B_MOUSE  | Ras-related protein Rap-1b OS=Mus musculus GN=Rap1b PE=2 SV=2                                         |
| 359 | 15.4  | sp Q9QUM9 PSA6_MOUSE  | Proteasome subunit alpha type-6 OS=Mus musculus GN=Psm6 PE=1 SV=1                             | 399 | 37.7  | sp Q3UJU9 RMD3_MOUSE   | Regulator of microtubule dynamics protein 3 OS=Mus musculus GN=Fam82a2 PE=1 SV=2                      |
| 360 | 22.4  | sp Q9R1P3 PSB2_MOUSE  | Proteasome subunit beta type-2 OS=Mus musculus GN=Psm2 PE=1 SV=1                              | 400 | 15.2  | sp Q8BH97 RCN3_MOUSE   | Reticulocalbin-3 OS=Mus musculus GN=Rcn3 PE=2 SV=1                                                    |

RP-HILIC-LC Complete Protein List (6/7)

| No. | % Cov | Accession #           | Name                                                                                                                   | No. | % Cov | Accession #           | Name                                                                                       |
|-----|-------|-----------------------|------------------------------------------------------------------------------------------------------------------------|-----|-------|-----------------------|--------------------------------------------------------------------------------------------|
| 401 | 48.5  | sp Q99PT1 GDIR1_MOUSE | Rho GDP-dissociation inhibitor 1 OS=Mus musculus GN=Arhgdia PE=1 SV=3                                                  | 441 | 25    | sp P80315 TCPD_MOUSE  | T-complex protein 1 subunit delta OS=Mus musculus GN=Cct4 PE=1 SV=3                        |
| 402 | 56.8  | sp Q89PL5 RRBP1_MOUSE | Ribosome-binding protein 1 OS=Mus musculus GN=Rrbp1 PE=2 SV=2                                                          | 442 | 33.5  | sp P80316 TCPE_MOUSE  | T-complex protein 1 subunit epsilon OS=Mus musculus GN=Cct5 PE=1 SV=1                      |
| 403 | 41.7  | sp Q8VH51 RBM39_MOUSE | RNA-binding protein 39 OS=Mus musculus GN=Rbm39 PE=1 SV=1                                                              | 443 | 22.1  | sp P80313 TCPH_MOUSE  | T-complex protein 1 subunit theta OS=Mus musculus GN=Cct7 PE=1 SV=1                        |
| 404 | 36.3  | sp P56959 FUS_MOUSE   | RNA-binding protein FUS OS=Mus musculus GN=Fus PE=2 SV=1                                                               | 444 | 41.3  | sp P80318 TCPG_MOUSE  | T-complex protein 1 subunit gamma OS=Mus musculus GN=Cct3 PE=1 SV=1                        |
| 405 | 26.1  | sp P60122 RUVB1_MOUSE | RuvB-like 1 OS=Mus musculus GN=Ruvb1 PE=1 SV=1                                                                         | 445 | 33.8  | sp P42932 TCPO_MOUSE  | T-complex protein 1 subunit theta OS=Mus musculus GN=Cct8 PE=1 SV=3                        |
| 406 | 37.7  | sp O55143 AT2A2_MOUSE | Sarcoplasmic/endoplasmic reticulum calcium ATPase 2 OS=Mus musculus GN=Atp2a2 PE=1 SV=2                                | 446 | 33.5  | sp P80317 TCPZ_MOUSE  | T-complex protein 1 subunit zeta OS=Mus musculus GN=Cct6a PE=1 SV=3                        |
| 407 | 30.5  | sp P42208 SEPT2_MOUSE | Septin-2 OS=Mus musculus GN=Sept2 PE=1 SV=2                                                                            | 447 | 27.3  | sp Q9D1Q6 TXND4_MOUSE | Thioredoxin domain-containing protein 4 OS=Mus musculus GN=Txndc4 PE=1 SV=1                |
| 408 | 30.7  | sp O55131 SEPT7_MOUSE | Septin-7 OS=Mus musculus GN=Sept7 PE=1 SV=1                                                                            | 448 | 16.1  | sp Q91W90 TXND5_MOUSE | Thioredoxin domain-containing protein 5 OS=Mus musculus GN=Txndc5 PE=1 SV=2                |
| 409 | 26.5  | sp Q76M23 2AAA_MOUSE  | Serine/threonine-protein phosphatase 2A 85 kDa regulatory subunit A alpha isoform OS=Mus musculus GN=Ppp2r1a PE=1 SV=3 | 449 | 23.8  | sp P10639 THIO_MOUSE  | Thioredoxin OS=Mus musculus GN=Txn PE=1 SV=3                                               |
| 410 | 78.2  | sp P19324 SERPH_MOUSE | Serpin H1 OS=Mus musculus GN=Serpinh1 PE=1 SV=2                                                                        | 450 | 39.7  | sp P20108 PRDX3_MOUSE | Thioredoxin-dependent peroxide reductase, mitochondrial OS=Mus musculus GN=Prdx3 PE=1 SV=1 |
| 411 | 46.4  | sp Q78Y26 SCOC_MOUSE  | Short coiled-coil protein OS=Mus musculus GN=Scoc PE=2 SV=1                                                            | 451 | 19.9  | sp Q9D0R2 SYTC_MOUSE  | Threonyl-tRNA synthetase, cytoplasmic OS=Mus musculus GN=Tars PE=1 SV=2                    |
| 412 | 63.2  | sp P62309 RUXG_MOUSE  | Small nuclear ribonucleoprotein G OS=Mus musculus GN=Snrng PE=2 SV=1                                                   | 452 | 14.2  | sp Q99LJ1 FUCO_MOUSE  | Tissue alpha-L-fucosidase OS=Mus musculus GN=Fuca1 PE=2 SV=1                               |
| 413 | 62.2  | sp P62315 SMD1_MOUSE  | Small nuclear ribonucleoprotein Sm D1 OS=Mus musculus GN=Snrpd1 PE=2 SV=1                                              | 453 | 29.9  | sp Q9ER38 TOR3A_MOUSE | Torsin-3A OS=Mus musculus GN=Tor3a PE=2 SV=2                                               |
| 414 | 32.6  | sp P61957 SUMO2_MOUSE | Small ubiquitin-related modifier 2 OS=Mus musculus GN=Sumo2 PE=2 SV=1                                                  | 454 | 13.9  | sp Q93092 TALDO_MOUSE | Transaldolase OS=Mus musculus GN=Taldo1 PE=1 SV=2                                          |
| 415 | 66.1  | sp Q9CQ65 MTAP_MOUSE  | S-methyl-5'-thioadenosine phosphorylase OS=Mus musculus GN=Mtap PE=2 SV=1                                              | 455 | 35.6  | sp P62869 ELOB_MOUSE  | Transcription elongation factor B polypeptide 2 OS=Mus musculus GN=Tceb2 PE=1 SV=1         |
| 416 | 26.1  | sp Q8VDN2 AT1A1_MOUSE | Sodium/potassium-transporting ATPase subunit alpha-1 OS=Mus musculus GN=Atp1a1 PE=1 SV=1                               | 456 | 24.3  | sp P42669 PURA_MOUSE  | Transcriptional activator protein Pur-alpha OS=Mus musculus GN=Pura PE=1 SV=1              |
| 417 | 18.7  | sp P97370 AT1B3_MOUSE | Sodium/potassium-transporting ATPase subunit beta-3 OS=Mus musculus GN=Atp1b3 PE=1 SV=1                                | 457 | 24.4  | sp Q9QUI0 RHOA_MOUSE  | Transforming protein RhoA OS=Mus musculus GN=Rhoa PE=1 SV=1                                |
| 418 | 37.5  | sp P16546 SPTA2_MOUSE | Spectrin alpha chain, brain OS=Mus musculus GN=Sptan1 PE=1 SV=4                                                        | 458 | 52.8  | sp Q9VVA4 TAGL2_MOUSE | Transgelin-2 OS=Mus musculus GN=Tagln2 PE=1 SV=4                                           |
| 419 | 17.5  | sp Q62261 SPTB2_MOUSE | Spectrin beta chain, brain 1 OS=Mus musculus GN=Sptbn1 PE=1 SV=2                                                       | 459 | 55.5  | sp Q01853 TERA_MOUSE  | Transitional endoplasmic reticulum ATPase OS=Mus musculus GN=Vcp PE=1 SV=4                 |
| 420 | 33.4  | sp Q64674 SPEE_MOUSE  | Spermidine synthase OS=Mus musculus GN=Srm PE=2 SV=1                                                                   | 460 | 54.4  | sp P40142 TKT_MOUSE   | Transketolase OS=Mus musculus GN=Tkt PE=1 SV=1                                             |
| 421 | 12.9  | sp P9WTX5 SKP1_MOUSE  | S-phase kinase-associated protein 1 OS=Mus musculus GN=Skp1 PE=1 SV=3                                                  | 461 | 20.2  | sp Q62348 TSN_MOUSE   | Translin OS=Mus musculus GN=Tsn PE=1 SV=1                                                  |
| 422 | 31.5  | sp Q9JY3 NSMA2_MOUSE  | Sphingomyelin phosphodiesterase 3 OS=Mus musculus GN=Smpd3 PE=1 SV=1                                                   | 462 | 19.9  | sp Q9CY50 SSRA_MOUSE  | Translocon-associated protein subunit alpha OS=Mus musculus GN=Ssr1 PE=1 SV=1              |
| 423 | 27.4  | sp Q99NB9 SF3B1_MOUSE | Splicing factor 3B subunit 1 OS=Mus musculus GN=SF3b1 PE=1 SV=1                                                        | 463 | 37.2  | sp Q62186 SSRD_MOUSE  | Translocon-associated protein subunit delta OS=Mus musculus GN=Ssr4 PE=2 SV=1              |
| 424 | 17.1  | sp P26369 U2AF2_MOUSE | Splicing factor U2AF 65 kDa subunit OS=Mus musculus GN=U2af2 PE=1 SV=3                                                 | 464 | 41.6  | sp Q9D1D4 TMEDA_MOUSE | Transmembrane emp24 domain-containing protein 10 OS=Mus musculus GN=Tmed10 PE=2 SV=1       |
| 425 | 57.7  | sp Q6PDM2 SFRS1_MOUSE | Splicing factor, arginine/serine-rich 1 OS=Mus musculus GN=Sfrs1 PE=1 SV=3                                             | 465 | 17.5  | sp Q9CXE7 TMED5_MOUSE | Transmembrane emp24 domain-containing protein 5 OS=Mus musculus GN=Tmed5 PE=2 SV=1         |
| 426 | 49.4  | sp P84104 SFRS3_MOUSE | Splicing factor, arginine/serine-rich 3 OS=Mus musculus GN=Sfrs3 PE=2 SV=1                                             | 466 | 25.7  | sp Q99KF1 TMED9_MOUSE | Transmembrane emp24 domain-containing protein 9 OS=Mus musculus GN=Tmed9 PE=2 SV=1         |
| 427 | 43.1  | sp Q8VJ6 SFPQ_MOUSE   | Splicing factor, proline- and glutamine-rich OS=Mus musculus GN=Sfpq PE=1 SV=1                                         | 467 | 29.3  | sp Q5U405 TMPSD_MOUSE | Transmembrane protease, serine 13 OS=Mus musculus GN=Tmpss13 PE=2 SV=2                     |
| 428 | 58.9  | sp P38647 GRP75_MOUSE | Stress-70 protein, mitochondrial OS=Mus musculus GN=Hspa9 PE=1 SV=2                                                    | 468 | 18.6  | sp Q9CR67 TMM33_MOUSE | Transmembrane protein 33 OS=Mus musculus GN=Tmem33 PE=2 SV=1                               |
| 429 | 38.5  | sp Q60864 STIP1_MOUSE | Stress-induced-phosphoprotein 1 OS=Mus musculus GN=Stip1 PE=1 SV=1                                                     | 469 | 73.9  | sp P17751 TPIS_MOUSE  | Triosephosphate isomerase OS=Mus musculus GN=Tpi1 PE=1 SV=3                                |
| 430 | 20.6  | sp Q8K2B3 DHSA_MOUSE  | Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial OS=Mus musculus GN=Sdha PE=1 SV=1             | 470 | 56.7  | sp P58771 TPM1_MOUSE  | Tropomyosin alpha-1 chain OS=Mus musculus GN=Tpm1 PE=1 SV=1                                |
| 431 | 30.8  | sp Q9D0K2 SCOT_MOUSE  | Succinyl-CoA:3-ketoacid-coenzyme A transferase 1, mitochondrial OS=Mus musculus GN=Oxct1 PE=1 SV=1                     | 471 | 52.1  | sp P21107 TPM3_MOUSE  | Tropomyosin alpha-3 chain OS=Mus musculus GN=Tpm3 PE=1 SV=2                                |
| 432 | 43.1  | sp Q61207 SAP_MOUSE   | Sulfated glycoprotein 1 OS=Mus musculus GN=Psap PE=1 SV=2                                                              | 472 | 73.8  | sp Q6IRU2 TPM4_MOUSE  | Tropomyosin alpha-4 chain OS=Mus musculus GN=Tpm4 PE=2 SV=3                                |
| 433 | 44.8  | sp P08228 SODC_MOUSE  | Superoxide dismutase [Cu-Zn] OS=Mus musculus GN=Sod1 PE=1 SV=2                                                         | 473 | 64.4  | sp P68373 TBA1C_MOUSE | Tubulin alpha-1C chain OS=Mus musculus GN=Tuba1c PE=1 SV=1                                 |
| 434 | 35.1  | sp P09671 SODM_MOUSE  | Superoxide dismutase [Mn], mitochondrial OS=Mus musculus GN=Sod2 PE=1 SV=3                                             | 474 | 61.7  | sp Q9D6F9 TBB4_MOUSE  | Tubulin beta-4 chain OS=Mus musculus GN=Tubb4 PE=1 SV=3                                    |
| 435 | 28.3  | sp Q64310 SURF_MOUSE  | Surfeit locus protein 4 OS=Mus musculus GN=Surf4 PE=2 SV=1                                                             | 475 | 62.8  | sp P99024 TBB5_MOUSE  | Tubulin beta-5 chain OS=Mus musculus GN=Tubb5 PE=1 SV=1                                    |
| 436 | 18.8  | sp Q9CY27 GPSN2_MOUSE | Synaptic glycoprotein SC2 OS=Mus musculus GN=Gpsn2 PE=1 SV=1                                                           | 476 | 48.5  | sp Q91WQ3 SYYC_MOUSE  | Tyrosyl-tRNA synthetase, cytoplasmic OS=Mus musculus GN=Yars PE=2 SV=3                     |
| 437 | 24.6  | sp P26039 TLN1_MOUSE  | Talin-1 OS=Mus musculus GN=Tln1 PE=1 SV=1                                                                              | 477 | 16.7  | sp Q6ZWM4 LSM8_MOUSE  | U6 snRNA-associated Sm-like protein LSm8 OS=Mus musculus GN=Lsm8 PE=2 SV=3                 |
| 438 | 46.9  | sp Q921F2 TADBP_MOUSE | TAR DNA-binding protein 43 OS=Mus musculus GN=Tardbp PE=1 SV=1                                                         | 478 | 14.8  | sp Q9JMA1 UBP14_MOUSE | Ubiquitin carboxyl-terminal hydrolase 14 OS=Mus musculus GN=Usp14 PE=1 SV=3                |
| 439 | 35.4  | sp P11983 TCPA2_MOUSE | T-complex protein 1 subunit alpha B OS=Mus musculus GN=Cct1 PE=1 SV=3                                                  | 479 | 10.6  | sp Q8R5H1 UBP15_MOUSE | Ubiquitin carboxyl-terminal hydrolase 15 OS=Mus musculus GN=Usp15 PE=2 SV=1                |
| 440 | 45.4  | sp P80314 TCPB_MOUSE  | T-complex protein 1 subunit beta OS=Mus musculus GN=Cct2 PE=1 SV=4                                                     | 480 | 25.6  | sp P56399 UBP5_MOUSE  | Ubiquitin carboxyl-terminal hydrolase 5 OS=Mus musculus GN=Usp5 PE=1 SV=1                  |

RP-HILIC-LC Complete Protein List (7/7)

| No. | % Cov | Accession #           | Name                                                                                       | No. | % Cov | Accession # | Name |
|-----|-------|-----------------------|--------------------------------------------------------------------------------------------|-----|-------|-------------|------|
| 481 | 37.3  | sp Q64339 UCRP_MOUSE  | Ubiquitin cross-reactive protein OS=Mus musculus GN=Isg15 PE=1 SV=4                        |     |       |             |      |
| 482 | 93.4  | sp P62991 UBIQ_MOUSE  | Ubiquitin OS=Mus musculus GN=Rps27a PE=1 SV=1                                              |     |       |             |      |
| 483 | 46.9  | sp P62838 UB2D2_MOUSE | Ubiquitin-conjugating enzyme E2 D2 OS=Mus musculus GN=Ube2d2 PE=2 SV=1                     |     |       |             |      |
| 484 | 43    | sp P61087 UBE2K_MOUSE | Ubiquitin-conjugating enzyme E2 K OS=Mus musculus GN=Ube2k PE=2 SV=3                       |     |       |             |      |
| 485 | 44.2  | sp P68037 UB2L3_MOUSE | Ubiquitin-conjugating enzyme E2 L3 OS=Mus musculus GN=Ube2l3 PE=2 SV=1                     |     |       |             |      |
| 486 | 41.4  | sp Q02053 UBA1_MOUSE  | Ubiquitin-like modifier-activating enzyme 1 OS=Mus musculus GN=Uba1 PE=1 SV=1              |     |       |             |      |
| 487 | 19    | sp Q99LF4 CV028_MOUSE | UPF0027 protein C22orf28 homolog OS=Mus musculus GN=D10Wsu52e PE=2 SV=1                    |     |       |             |      |
| 488 | 24.7  | sp Q9JK81 MYG1_MOUSE  | UPF0160 protein MYG1 OS=Mus musculus GN=Myg1 PE=2 SV=1                                     |     |       |             |      |
| 489 | 24.8  | sp Q78XF5 U527_MOUSE  | UPF0527 transmembrane protein OS=Mus musculus PE=2 SV=1                                    |     |       |             |      |
| 490 | 23.4  | sp Q9EQH3 VPS35_MOUSE | Vacuolar protein sorting-associated protein 35 OS=Mus musculus GN=Vps35 PE=1 SV=1          |     |       |             |      |
| 491 | 18.1  | sp Q9Z1Q9 SYVC_MOUSE  | Valyl-tRNA synthetase OS=Mus musculus GN=Vars PE=2 SV=1                                    |     |       |             |      |
| 492 | 18.5  | sp Q9WV55 VAPA_MOUSE  | Vesicle-associated membrane protein-associated protein A OS=Mus musculus GN=Vapa PE=1 SV=2 |     |       |             |      |
| 493 | 28.2  | sp Q9DBH5 LMAN2_MOUSE | Vesicular integral-membrane protein VIP36 OS=Mus musculus GN=Lman2 PE=2 SV=1               |     |       |             |      |
| 494 | 32.7  | sp Q8VDJ3 VIGLN_MOUSE | Vigilin OS=Mus musculus GN=Hdlbp PE=1 SV=1                                                 |     |       |             |      |
| 495 | 85.4  | sp P20152 VIME_MOUSE  | Vimentin OS=Mus musculus GN=Vim1 PE=1 SV=3                                                 |     |       |             |      |
| 496 | 54.7  | sp Q64727 VINC_MOUSE  | Vinculin OS=Mus musculus GN=Vcl PE=1 SV=4                                                  |     |       |             |      |
| 497 | 31.8  | sp Q60932 VDAC1_MOUSE | Voltage-dependent anion-selective channel protein 1 OS=Mus musculus GN=Vdac1 PE=1 SV=3     |     |       |             |      |
| 498 | 25.8  | sp Q60930 VDAC2_MOUSE | Voltage-dependent anion-selective channel protein 2 OS=Mus musculus GN=Vdac2 PE=1 SV=2     |     |       |             |      |
| 499 | 25.4  | sp Q60931 VDAC3_MOUSE | Voltage-dependent anion-selective channel protein 3 OS=Mus musculus GN=Vdac3 PE=1 SV=1     |     |       |             |      |
| 500 | 24.1  | sp P50516 VATA_MOUSE  | V-type proton ATPase catalytic subunit A OS=Mus musculus GN=Atp6v1a PE=1 SV=2              |     |       |             |      |
| 501 | 18.5  | sp Q88342 WDR1_MOUSE  | WD repeat-containing protein 1 OS=Mus musculus GN=Wdr1 PE=1 SV=3                           |     |       |             |      |
| 502 | 39.2  | sp Q3UKJ7 SMU1_MOUSE  | WD40 repeat-containing protein SMU1 OS=Mus musculus GN=Smu1 PE=2 SV=2                      |     |       |             |      |
| 503 | 5.8   | sp Q6P1B1 XPP1_MOUSE  | Xaa-Pro aminopeptidase 1 OS=Mus musculus GN=Xpnpep1 PE=2 SV=1                              |     |       |             |      |
| 504 | 51.5  | sp Q9D0J8 PTMS_MOUSE  | Parathyroid hormone-related protein OS=Mus musculus GN=Pth1r PE=2 SV=3                     |     |       |             |      |

**Figure S2:** Hydrophobicity vs retention time plot of peptides in RP and HILIC. The abscissae are the retention time (min) of all peptides matched to sequences supporting protein identification ( $\geq 95\%$  confidence), as determined by ProteinPilot. Retention time is here determined as the time point at which the peptide spectrum was acquired. The ordinates are the theoretical hydrophobicity of the corresponding peptides as determined by the Sequence Specific Retention Calculator using 300Å C<sub>18</sub> material as model.

