**Supplemental Table S3.2A. Comparison of proteins associated with the Fe3O4 NP-biocoronas**

**Table C.2A. Comparisons of Proteins Found to Associate with Fe3O4 NPs Across Subjects (UniProtKB Entry Name)**

|  |  |  |
| --- | --- | --- |
| **Subjects** |  |  |
| 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 |  |  |
|  |  |  |
| **# of Proteins in Common** |  |  |
| 99   |  |  |  |  | | --- | --- | --- | --- | | **Proteins Shared** |  |  |  | | A2MG | CYTC | IGHG1 | PEDF | | ACTB | FA11 | IGHG2 | PLMN | | ALS | FA12 | IGHG3 | PON1 | | APOA | FA5 | IGHG4 | PRG4 | | APOA1 | FETUA | IGHM | PROP | | APOA2 | FHR1 | IGJ | PROS | | APOA4 | FHR2 | IGKC | QSOX1 | | APOB | FIBA | IGLC2 | SEPP1 | | APOC1 | FIBB | IGLL5 | TETN | | APOC2 | FIBG | ITIH4 | THRB | | APOC3 | FINC | K2C1 | TRFE | | APOE | GELS | KLKB1 | TSP1 | | APOH | HBB | KNG1 | TTHY | | C1QA | HEMO | KV105 | VTNC | | C1QB | HGFA | KV108 | VWF | | C1QC | HGFL | KV117 |  | | C1S | HPT | KV230 |  | | C4BPA | HPTR | KV315 |  | | C4BPB | HRG | KV320 |  | | CD5L | HV315 | KV401 |  | | CFAD | HV374 | KVD11 |  | | CFAH | HV434 | LG3BP |  | | CLUS | HV601 | LV147 |  | | CO3 | IBP3 | LV151 |  | | CO4B | IBP4 | LV310 |  | | CO8A | IC1 | LV319 |  | | CO8B | IGF2 | MUCB |  | | CXCL7 | IGHA1 | PCOC1 |  | |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | **Subjects** | | 1, 2, 3, 4, 6, 7, 8, 9, 10 | | **Subjects** | | 1, 2, 4, 5, 6, 8, 7, 9, 10 |  |  | | --- | | **Subjects** | | 1, 2, 3, 4, 5, 6, 7, 8, 9 |  |  | | --- | | **Subjects** | | 1, 2, 3, 4, 6, 7, 8, 10   |  | | --- | | **Subjects** | | 1, 2, 3, 4, 6, 8, 9, 10 | |  |  | | --- | | **Subjects** | | 1, 2, 3, 5, 6, 7, 8, 10 |  |  | | --- | | **Subjects** | | 1, 2, 4, 6, 7, 8, 9, 10 |  |  | | --- | | **Subjects** | | 1, 2, 3, 4, 7, 8, 9, 10 |  |  | | --- | | **Subjects** | | 1, 2, 3, 4, 5, 6, 7, 9 |  |  | | --- | | **Subjects** | | 2, 3, 4, 5, 7, 8, 9, 10 |  |  | | --- | | **Subjects** | | 1, 2, 4, 6, 8, 9, 10 | | |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 5 |  |  | | --- | | **# of Proteins in Common** | | 3 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 2 | | |  | | --- | | **Proteins Shared** | | IGF1 |  |  | | --- | | **Proteins Shared** | | A1AT | | HV307 | | KV224 | | APOL1 | | CO9 |  |  | | --- | | **Proteins Shared** | | ITA2B | | FLNA | | ACTS | | |  | | --- | | **Proteins Shared** | | K22E | |  |  | | --- | | **Proteins Shared** | | LYSC |  |  | | --- | | **Proteins Shared** | | LV949 |  |  | | --- | | **Proteins Shared** | | CBPN |  |  | | --- | | **Proteins Shared** | | HV551 |  |  | | --- | | **Proteins Shared** | | HV309 |  |  | | --- | | **Proteins Shared** | | HV364 |  |  | | --- | | **Proteins Shared** | | KV112 | | LV325 | |
| |  | | --- | | **Subjects** | | 1, 3, 4, 6, 8, 9, 10 |  |  | | --- | | **Subjects** | | 1, 5, 6, 7, 8, 9, 10 |  |  | | --- | | **Subjects** | | 1, 3, 4, 5, 8, 9, 10   |  | | --- | | **Subjects** | | 1, 4, 5, 7, 8, 9, 10 | |  |  | | --- | | **Subjects** | | 2, 4, 6, 7, 8, 9, 10 |  |  | | --- | | **Subjects** | | 2, 3, 4, 7, 8, 9, 10 |  |  | | --- | | **Subjects** | | 2, 3, 5, 7, 8, 9, 10 |  |  | | --- | | **Subjects** | | 1, 2, 4, 6, 8, 10 |  |  | | --- | | **Subjects** | | 1, 2, 3, 4, 6, 8 |  |  | | --- | | **Subjects** | | 1, 2, 4, 5, 8, 10 |  |  | | --- | | **Subjects** | | 1, 4, 5, 8, 9, 10 |  |  | | --- | | **Subjects** | | 1, 2, 5, 7, 9, 10 |  |  | | --- | | **Subjects** | | 1, 4, 6, 7, 9, 10 |  |  | | --- | | **Subjects** | | 2, 3, 6, 7, 8, 9 |  |  | | --- | | **Subjects** | | 2, 4, 6, 7, 8, 9 | | |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 3 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 | | |  | | --- | | **Proteins Shared** | | PLF4 |  |  | | --- | | **Proteins Shared** | | KVD39 |  |  | | --- | | **Proteins Shared** | | HV349 |  |  | | --- | | **Proteins Shared** | | POLN\_SFV |  |  | | --- | | **Proteins Shared** | | A2AP | | HV372 | | AMBP |  |  | | --- | | **Proteins Shared** | | IGHD |  |  | | --- | | **Proteins Shared** | | LV321 |  |  | | --- | | **Proteins Shared** | | KV116 |  |  | | --- | | **Proteins Shared** | | APOD |  |  | | --- | | **Proteins Shared** | | FCN3 |  |  | | --- | | **Proteins Shared** | | KVD13 |  |  | | --- | | **Proteins Shared** | | FCGBP |  |  | | --- | | **Proteins Shared** | | LV861 |  |  | | --- | | **Proteins Shared** | | TPM4 |  |  | | --- | | **Proteins Shared** | | MYL6 | |
| |  | | --- | | **Subjects** | | 1, 3, 6, 8, 10 |  |  | | --- | | **Subjects** | | 2, 6, 8, 9, 10 |  |  | | --- | | **Subjects** | | 4, 5, 7, 8, 9 |  |  | | --- | | **Subjects** | | 2, 3, 5, 9, 10 |  |  | | --- | | **Subjects** | | 1, 2, 6, 8 |  |  | | --- | | **Subjects** | | 1, 2, 7, 9 |  |  | | --- | | **Subjects** | | 2, 6, 8, 10 |  |  | | --- | | **Subjects** | | 2, 4, 8, 10 |  |  | | --- | | **Subjects** | | 2, 6, 7, 9 |  |  | | --- | | **Subjects** | | 3, 5, 6, 9 |  |  | | --- | | **Subjects** | | 2, 6, 8 |  |  | | --- | | **Subjects** | | 4, 6, 8 |  |  | | --- | | **Subjects** | | 3, 6, 9 |  |  | | --- | | **Subjects** | | 4, 5, 9 |  |  | | --- | | **Subjects** | | 6, 8 | | |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 | | |  | | --- | | **Proteins Shared** | | HV118 |  |  | | --- | | **Proteins Shared** | | ANT3 |  |  | | --- | | **Proteins Shared** | | LV218 |  |  | | --- | | **Proteins Shared** | | CELR2 |  |  | | --- | | **Proteins Shared** | | ITIH2 |  |  | | --- | | **Proteins Shared** | | HV313 |  |  | | --- | | **Proteins Shared** | | MGP |  |  | | --- | | **Proteins Shared** | | FCN2 |  |  | | --- | | **Proteins Shared** | | CO5 |  |  | | --- | | **Proteins Shared** | | MYH9 |  |  | | --- | | **Proteins Shared** | | GPX3 |  |  | | --- | | **Proteins Shared** | | ML12A |  |  | | --- | | **Proteins Shared** | | ITB3 |  |  | | --- | | **Proteins Shared** | | TBB1 |  |  | | --- | | **Proteins Shared** | | ITIH1 | |
| |  | | --- | | **Subjects** | | 7, 8 |  |  | | --- | | **Subjects** | | 2, 3 |  |  | | --- | | **Subjects** | | 3, 6 |  |  | | --- | | **Subjects** | | 7, 9 |  |  | | --- | | **Subjects** | | 1 |  |  | | --- | | **Subjects** | | 8 |  |  | | --- | | **Subjects** | | 2 |  |  | | --- | | **Subjects** | | 6 |  |  | | --- | | **Subjects** | | 10 |  |  | | --- | | **Subjects** | | 3 |  |  | | --- | | **Subjects** | | 5 |  |  | | --- | | **Subjects** | | 9 | | |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 2 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 2 |  |  | | --- | | **# of Proteins in Common** | | 3 |  |  | | --- | | **# of Proteins in Common** | | 6 |  |  | | --- | | **# of Proteins in Common** | | 32 |  |  | | --- | | **# of Proteins in Common** | | 1 |  |  | | --- | | **# of Proteins in Common** | | 4 | | |  | | --- | | **Proteins Shared** | | LV469 |  |  | | --- | | **Proteins Shared** | | SBSN |  |  | | --- | | **Proteins Shared** | | ALDOA |  |  | | --- | | **Proteins Shared** | | KV127 |  |  | | --- | | **Proteins Shared** | | SPTA1 | | PGRP2 |  |  | | --- | | **Proteins Shared** | | IBP2 |  |  | | --- | | **Proteins Shared** | | CD14 | | TBA1B |  |  | | --- | | **Proteins Shared** | | TLN1 | | SHBG | | MMRN1 |  |  | | --- | | **Proteins Shared** | | LV657 | | KVD15 | | IGLL1 | | NFX1 | | P2Y13 | | MMAA |  |  | | --- | | **Proteins Shared** | | 1433S | | ANXA1 | | ANXA2 | | BRD2 | | CALL5 | | CDC5L | | CE290 | | CO4A | | CO8G | | DOK3 | | ENOA | | FABP5 | | GLNA | | HMGX4 | | HV330 | | HV343 | | HV404 | | KPYM | | KV133 | | KV621 | | KVD20 | | KVD21 | | LDHA | | LEG7 | | LV214 | | LV327 | | PB2\_I45A0 | | PDZ1P | | RNAS4 | | SIG16 | | SPB4 | | WAC2C |  |  | | --- | | **Proteins Shared** | | IBP5 |  |  | | --- | | **Proteins Shared** | | KV228 | | TRFL | | LBP | | DEF3 | |

**Data Table S3.2B. Venn Diagram Identifications All Compared to Subject 1**

Comparison of Proteins Associated with Fe3O4 NPs Following Incubation in Human Plasma Subject 1 and Subject 2 Prior to Exercise

UniProtKB Entry Name

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | **In Common** | | A1AT | | A2MG | | ACTB | | ACTS | | ALS | | APOA1 | | APOA2 | | APOA4 | | APOA | | APOB | | APOC1 | | APOC2 | | APOC3 | | APOD | | APOE | | APOH | | APOL1 | | C1QA | | C1QB | | C1QC | | C1S | | C4BPA | | C4BPB | | CBPN | | CD5L | | CFAD | | CFAH | | CLUS | | CO3 | | CO4B | | CO8A | | CO8B | | CO9 | | |  | | --- | | CXCL7 | | CYTC | | FA11 | | FA12 | | FA5 | | FCGBP | | FCN3 | | FETUA | | FHR1 | | FHR2 | | FIBA | | FIBB | | FIBG | | FINC | | FLNA | | GELS | | HBB | | HEMO | | HGFA | | HGFL | | HPTR | | HPT | | HRG | | HV307 | | HV309 | | HV313 | | HV315 | | HV374 | | HV434 | | HV551 | | HV601 | | IBP3 | | IBP4 | | IC1 | | |  | | --- | | IGF1 | | IGF2 | | IGHA1 | | IGHG1 | | IGHG2 | | IGHG3 | | IGHG4 | | IGHM | | IGJ | | IGKC | | IGLC2 | | IGLL5 | | ITA2B | | ITIH2 | | ITIH4 | | K22E | | K2C1 | | KLKB1 | | KNG1 | | KV105 | | KV108 | | KV112 | | KV116 | | KV117 | | KV224 | | KV230 | | KV315 | | KV320 | | KV401 | | KVD11 | | LG3BP | | LV147 | | LV151 | | LV310 | | |  | | --- | | LV319 | | LV325 | | LV949 | | LYSC | | MUCB | | PCOC1 | | PEDF | | PLMN | | PON1 | | PRG4 | | PROP | | PROS | | QSOX1 | | | SEPP1 | | | TETN | | | THRB | | | TRFE | | | TSP1 | | | TTHY | | | VTNC | | | VWF | |  |  | | --- | | **Subject 1 Only** | | HV118 | | HV349 | | KVD13 | | KVD39 | | LV861 | | PGRP2 | | PLF4 | | POLN\_SFV | | |  | | --- | | **Subject 2 Only** | | A2AP | | AMBP | | ANT3 | | CD14 | | CELR2 | | CO5 | | FCN2 | | GPX3 | | HV364 | | HV372 | | IGHD | | LV321 | | MGP | | MYL6 | | SBSN | | TBA1B | | TPM4 | |

Comparison of Proteins Associated with Fe3O4 NPs Following Incubation in Human Plasma Subject 1 and Subject 3 Prior to Exercise

UniProtKB Entry Name

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | **In Common** | | A2MG | | ACTB | | ACTS | | ALS | | APOA1 | | APOA2 | | APOA4 | | APOA | | APOB | | APOC1 | | APOC2 | | APOC3 | | APOD | | APOE | | APOH | | C1QA | | C1QB | | C1QC | | C1S | | C4BPA | | C4BPB | | CD5L | | CFAD | | CFAH | | CLUS | | CO3 | | CO4B | | CO8A | | CO8B | | CXCL7 | | CYTC | | FA11 | | FA12 | | FA5 | | FETUA | | FHR1 | | FHR2 | | |  | | --- | | FIBA | | FIBB | | FIBG | | FINC | | FLNA | | GELS | | HBB | | HEMO | | HGFA | | HGFL | | HPTR | | HPT | | HRG | | HV118 | | HV309 | | HV315 | | HV349 | | HV374 | | HV434 | | HV551 | | HV601 | | IBP3 | | IBP4 | | IC1 | | IGF1 | | IGF2 | | IGHA1 | | IGHG1 | | IGHG2 | | IGHG3 | | IGHG4 | | IGHM | | IGJ | | IGKC | | IGLC2 | | IGLL5 | | ITA2B | | ITIH4 | | |  | | --- | | K22E | | K2C1 | | KLKB1 | | KNG1 | | KV105 | | KV108 | | KV117 | | KV230 | | KV315 | | KV320 | | KV401 | | KVD11 | | LG3BP | | LV147 | | LV151 | | LV310 | | LV319 | | LV949 | | LYSC | | MUCB | | PCOC1 | | PEDF | | PLF4 | | PLMN | | PON1 | | PRG4 | | PROP | | PROS | | QSOX1 | | SEPP1 | | TETN | | THRB | | TRFE | | TSP1 | | TTHY | | VTNC | | VWF | | |  | | --- | | **Subject 1 only** | | A1AT | | APOL1 | | CBPN | | CO9 | | FCGBP | | FCN3 | | HV307 | | HV313 | | ITIH2 | | KV112 | | KV116 | | KV224 | | KVD13 | | KVD39 | | LV325 | | LV861 | | PGRP2 | | POLN\_SFV | | SPTA1 |  |  | | --- | | **Subject 3 only** | | 1433S | | ALDOA | | ANXA1 | | ANXA2 | | BRD2 | | CALL5 | | CDC5L | | CE290 | | CELR2 | | CO4A | | CO8G | | DOK3 | | ENOA | | FABP5 | | GLNA | | HMGX4 | | |  | | --- | | HV330 | | HV343 | | HV364 | | HV404 | | IGHD | | ITB3 | | KPYM | | KV133 | | KV621 | | KVD20 | | KVD21 | | LDHA | | LEG7 | | LV214 | | LV321 | | LV327 | | MYH9 | | PB2\_I45A0 | | PDZ1P | | RNAS4 | | SBSN | | SIG16 | | SPB4 | | TPM4 | | WAC2C | |

Comparison of Proteins Associated with Fe3O4 NPs Following Incubation in Human Plasma Subject 1 and Subject 4 Prior to Exercise

UniProtKB Entry Name

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  | | --- | | **In Common** | | A1AT | | A2MG | | ACTB | | ACTS | | ALS | | APOA1 | | APOA2 | | APOA4 | | APOA | | APOB | | APOC1 | | APOC2 | | APOC3 | | APOD | | APOE | | APOH | | APOL1 | | C1QA | | C1QB | | C1QC | | C1S | | C4BPA | | C4BPB | | CBPN | | CD5L | | CFAD | | CFAH | | CLUS | | CO3 | | CO4B | | CO8A | | CO8B | | CO9 | | CXCL7 | | CYTC | | FA11 | | FA12 | | |  | | --- | | FA5 | | FCN3 | | FETUA | | FHR1 | | FHR2 | | FIBA | | FIBB | | FIBG | | FINC | | FLNA | | GELS | | HBB | | HEMO | | HGFA | | HGFL | | HPTR | | HPT | | HRG | | HV307 | | HV309 | | HV315 | | HV349 | | HV374 | | HV434 | | HV551 | | HV601 | | IBP3 | | IBP4 | | IC1 | | IGF1 | | IGF2 | | IGHA1 | | IGHG1 | | IGHG2 | | IGHG3 | | IGHG4 | | IGHM | | IGJ | | |  | | --- | | IGKC | | IGLC2 | | IGLL5 | | ITA2B | | ITIH4 | | K22E | | K2C1 | | KLKB1 | | KNG1 | | KV105 | | KV108 | | KV112 | | KV116 | | KV117 | | KV224 | | KV230 | | KV315 | | KV320 | | KV401 | | KVD11 | | KVD13 | | LG3BP | | LV147 | | LV151 | | LV310 | | LV319 | | LV325 | | LV861 | | LYSC | | MUCB | | PCOC1 | | PEDF | | PLF4 | | PLMN | | POLN\_SFV | | PON1 | | PRG4 | | PROP | | |  | | --- | | PROS | | QSOX1 | | SEPP1 | | TETN | | THRB | | TRFE | | TSP1 | | TTHY | | VTNC | | VWF |  |  | | --- | | **Subject 1 only** | | FCGBP | | HV118 | | HV313 | | ITIH2 | | KVD39 | | LV949 | | PGRP2 | | SPTA1 |  |  | | --- | | **Subject 4 only** | | A2AP | | AMBP | | FCN2 | | HV364 | | HV372 | | IGHD | | LV218 | | ML12A | | MYL6 | | TBB1 | |  |

Comparison of Proteins Associated with Fe3O4 NPs Following Incubation in Human Plasma Subject 1 and Subject 5 Prior to Exercise

UniProtKB Entry Name

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  | | --- | | **In Common** | | A1AT | | A2MG | | ACTB | | ACTS | | ALS | | APOA1 | | APOA2 | | APOA4 | | APOA | | APOB | | APOC1 | | APOC2 | | APOC3 | | APOE | | APOH | | APOL1 | | C1QA | | C1QB | | C1QC | | C1S | | C4BPA | | C4BPB | | CD5L | | CFAD | | CFAH | | CLUS | | CO3 | | CO4B | | CO8A | | CO8B | | CO9 | | CXCL7 | | CYTC | | FA11 | | FA12 | | FA5 | | FCGBP | | |  | | --- | | FCN3 | | FETUA | | FHR1 | | FHR2 | | FIBA | | FIBB | | FIBG | | FINC | | FLNA | | GELS | | HBB | | HEMO | | HGFA | | HGFL | | HPTR | | HPT | | HRG | | HV307 | | HV309 | | HV315 | | HV349 | | HV374 | | HV434 | | HV601 | | IBP3 | | IBP4 | | IC1 | | IGF2 | | IGHA1 | | IGHG1 | | IGHG2 | | IGHG3 | | IGHG4 | | IGHM | | IGJ | | IGKC | | IGLC2 | | IGLL5 | | |  | | --- | | ITA2B | | ITIH4 | | K2C1 | | KLKB1 | | KNG1 | | KV105 | | KV108 | | KV117 | | KV224 | | KV230 | | KV315 | | KV320 | | KV401 | | KVD11 | | KVD13 | | KVD39 | | LG3BP | | LV147 | | LV151 | | LV310 | | LV319 | | LV949 | | MUCB | | PCOC1 | | PEDF | | PLMN | | POLN\_SFV | | PON1 | | PRG4 | | PROP | | PROS | | QSOX1 | | SEPP1 | | TETN | | THRB | | TRFE | | TSP1 | | TTHY | | |  | | --- | | VTNC | | VWF |  |  | | --- | | **Subject 1 only** | | APOD | | CBPN | | HV118 | | HV313 | | HV551 | | IGF1 | | ITIH2 | | K22E | | KV112 | | KV116 | | LV325 | | LV861 | | LYSC | | PGRP2 | | PLF4 | | SPTA1 |  |  | | --- | | **Subject 5 only** | | CELR2 | | HV364 | | IBP5 | | LV218 | | LV321 | | MYH9 | | TBB1 | |  |

Comparison of Proteins Associated with Fe3O4 NPs Following Incubation in Human Plasma Subject 1 and Subject 6 Prior to Exercise

UniProtKB Entry Name

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  | | --- | | **In Common** | | A1AT | | A2MG | | ACTB | | ACTS | | ALS | | APOA1 | | APOA2 | | APOA4 | | APOA | | APOB | | APOC1 | | APOC2 | | APOC3 | | APOD | | APOE | | APOH | | APOL1 | | C1QA | | C1QB | | C1QC | | C1S | | C4BPA | | C4BPB | | CBPN | | CD5L | | CFAD | | CFAH | | CLUS | | CO3 | | CO4B | | CO8A | | CO8B | | CO9 | | CXCL7 | | CYTC | | FA11 | | FA12 | | |  | | --- | | FA5 | | FETUA | | FHR1 | | FHR2 | | FIBA | | FIBB | | FIBG | | FINC | | FLNA | | GELS | | HBB | | HEMO | | HGFA | | HGFL | | HPTR | | HPT | | HRG | | HV118 | | HV307 | | HV309 | | HV315 | | HV374 | | HV434 | | HV601 | | IBP3 | | IBP4 | | IC1 | | IGF1 | | IGF2 | | IGHA1 | | IGHG1 | | IGHG2 | | IGHG3 | | IGHG4 | | IGHM | | IGJ | | IGKC | | IGLC2 | | |  | | --- | | IGLL5 | | ITA2B | | ITIH2 | | ITIH4 | | K22E | | K2C1 | | KLKB1 | | KNG1 | | KV105 | | KV108 | | KV112 | | KV116 | | KV117 | | KV224 | | KV230 | | KV315 | | KV320 | | KV401 | | KVD11 | | KVD39 | | LG3BP | | LV147 | | LV151 | | LV310 | | LV319 | | LV325 | | LV861 | | LV949 | | LYSC | | MUCB | | PCOC1 | | PEDF | | PLF4 | | PLMN | | PON1 | | PRG4 | | PROP | | PROS | | |  | | --- | | QSOX1 | | SEPP1 | | TETN | | THRB | | TRFE | | TSP1 | | TTHY | | VTNC | | VWF |  |  | | --- | | **Subject 1 only** | | FCGBP | | FCN3 | | HV313 | | HV349 | | HV551 | | KVD13 | | PGRP2 | | POLN\_SFV | | SPTA1 |  |  | | --- | | **Subject 6 only** | | A2AP | | ALDOA | | AMBP | | ANT3 | | CO5 | | GPX3 | | HV372 | | ITB3 | | ITIH1 | | MGP | | ML12A | | MMRN1 | | MYH9 | | MYL6 | | SHBG | | TLN1 | | |  | | --- | | TPM4 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |

Comparison of Proteins Associated with Fe3O4 NPs Following Incubation in Human Plasma Subject 1 and Subject 7 Prior to Exercise

UniProtKB Entry Name

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  | | --- | | **In Common** | | A1AT | | A2MG | | ACTB | | ACTS | | ALS | | APOA1 | | APOA2 | | APOA4 | | APOA | | APOB | | APOC1 | | APOC2 | | APOC3 | | APOE | | APOH | | APOL1 | | C1QA | | C1QB | | C1QC | | C1S | | C4BPA | | C4BPB | | CBPN | | CD5L | | CFAD | | CFAH | | CLUS | | CO3 | | CO4B | | CO8A | | CO8B | | CO9 | | CXCL7 | | CYTC | | FA11 | | FA12 | | FA5 | | |  | | --- | | FCGBP | | FETUA | | FHR1 | | FHR2 | | FIBA | | FIBB | | FIBG | | FINC | | FLNA | | GELS | | HBB | | HEMO | | HGFA | | HGFL | | HPTR | | HPT | | HRG | | HV307 | | HV309 | | HV313 | | HV315 | | HV374 | | HV434 | | HV551 | | HV601 | | IBP3 | | IBP4 | | IC1 | | IGF1 | | IGF2 | | IGHA1 | | IGHG1 | | IGHG2 | | IGHG3 | | IGHG4 | | IGHM | | IGJ | | IGKC | | |  | | --- | | IGLC2 | | IGLL5 | | ITA2B | | ITIH4 | | K22E | | K2C1 | | KLKB1 | | KNG1 | | KV105 | | KV108 | | KV117 | | KV224 | | KV230 | | KV315 | | KV320 | | KV401 | | KVD11 | | KVD39 | | LG3BP | | LV147 | | LV151 | | LV310 | | LV319 | | LV861 | | LV949 | | MUCB | | PCOC1 | | PEDF | | PLMN | | POLN\_SFV | | PON1 | | PRG4 | | PROP | | PROS | | QSOX1 | | SEPP1 | | TETN | | THRB | | |  | | --- | | TRFE | | TSP1 | | TTHY | | VTNC | | VWF |  |  | | --- | | **Subject 1 only** | | APOD | | FCN3 | | HV118 | | HV349 | | ITIH2 | | KV112 | | KV116 | | KVD13 | | LV325 | | LYSC | | PGRP2 | | PLF4 | | SPTA1 |  |  | | --- | | **Subject 7 only** | | A2AP | | AMBP | | CO5 | | HV364 | | HV372 | | IGHD | | KV127 | | LV218 | | LV321 | | LV469 | | MYL6 | | TPM4 | |  |

Comparison of Proteins Associated with Fe3O4 NPs Following Incubation in Human Plasma Subject 1 and Subject 8 Prior to Exercise

UniProtKB Entry Name

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  | | --- | | **In Common** | | A1AT | | A2MG | | ACTB | | ACTS | | ALS | | APOA1 | | APOA2 | | APOA4 | | APOA | | APOB | | APOC1 | | APOC2 | | APOC3 | | APOD | | APOE | | APOH | | APOL1 | | C1QA | | C1QB | | C1QC | | C1S | | C4BPA | | C4BPB | | CBPN | | CD5L | | CFAD | | CFAH | | CLUS | | CO3 | | CO4B | | CO8A | | CO9 | | CXCL7 | | CYTC | | FA11 | | |  | | --- | | FA12 | | FA5 | | FCN3 | | FETUA | | FHR1 | | FHR2 | | FIBA | | FIBB | | FIBG | | FINC | | FLNA | | GELS | | HBB | | HEMO | | HGFA | | HGFL | | HPTR | | HPT | | HRG | | HV118 | | HV307 | | HV315 | | HV349 | | HV374 | | HV434 | | HV551 | | HV601 | | IBP3 | | IBP4 | | IC1 | | IGF1 | | IGF2 | | IGHA1 | | IGHG1 | | IGHG2 | | IGHG3 | | |  | | --- | | IGHG4 | | IGHM | | IGJ | | IGKC | | IGLC2 | | IGLL5 | | ITA2B | | ITIH2 | | ITIH4 | | K22E | | K2C1 | | KLKB1 | | KNG1 | | KV105 | | KV108 | | KV112 | | KV116 | | KV117 | | KV224 | | KV230 | | KV315 | | KV320 | | KV401 | | KVD11 | | KVD13 | | KVD39 | | LG3BP | | LV147 | | LV151 | | LV310 | | LV319 | | LV325 | | LV949 | | LYSC | | MUCB | | PCOC1 | | |  |  | | --- | --- | | PEDF | | | PLF4 | | | PLMN | | | POLN\_SFV | | | PON1 | | | PRG4 | | | PROP | | | PROS | | | QSOX1 | | | SEPP1 | | | TETN | | | THRB | | | TRFE | | | TSP1 | | | TTHY | | | VTNC | | | VWF | | | **Subject 1 Only** | | | FCGBP | | | HV309 | | | HV313 | | | LV861 | | | PGRP2 | | | SPTA1 | | |  | | | **Subject 8 Only** | | | A2AP | | | AMBP | | ANT3 | | FCN2 | | HV343 | | HV364 | | IBP2 | | IGHD |   ITIH1 | |  | | --- | | LV218 | | LV321 | | LV469 | | MGP | | ML12A | | MYL6 | | TPM4 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |

Comparison of Proteins Associated with Fe3O4 NPs Following Incubation in Human Plasma Subject 1 and Subject 9 Prior to Exercise

UniProtKB Entry Name

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| |  | | --- | | **In Common** | | A1AT | | A2MG | | ACTB | | ACTS | | ALS | | APOA1 | | APOA2 | | APOA4 | | APOA | | APOB | | APOC1 | | APOC2 | | APOC3 | | APOE | | APOH | | APOL1 | | C1QA | | C1QB | | C1QC | | C1S | | C4BPA | | C4BPB | | CBPN | | CD5L | | CFAD | | CFAH | | CLUS | | CO3 | | CO4B | | CO8A | | CO8B | | CO9 | | CXCL7 | | CYTC | | FA11 | | FA12 | | FA5 | | |  | | --- | | FCGBP | | FETUA | | FHR1 | | FHR2 | | FIBA | | FIBB | | FIBG | | FINC | | FLNA | | GELS | | HBB | | HEMO | | HGFA | | HGFL | | HPTR | | HPT | | HRG | | HV307 | | HV309 | | HV313 | | HV315 | | HV349 | | HV374 | | HV434 | | HV551 | | HV601 | | IBP3 | | IBP4 | | IC1 | | IGF1 | | IGF2 | | IGHA1 | | IGHG1 | | IGHG2 | | IGHG3 | | IGHG4 | | IGHM | | IGJ | | |  | | --- | | IGKC | | IGLC2 | | IGLL5 | | ITA2B | | ITIH4 | | K2C1 | | KLKB1 | | KNG1 | | KV105 | | KV108 | | KV112 | | KV117 | | KV224 | | KV230 | | KV315 | | KV320 | | KV401 | | KVD11 | | KVD13 | | KVD39 | | LG3BP | | LV147 | | LV151 | | LV310 | | LV319 | | LV325 | | LV861 | | LYSC | | MUCB | | PCOC1 | | PEDF | | PLF4 | | PLMN | | POLN\_SFV | | PON1 | | PRG4 | | PROP | | PROS | | |  | | --- | | QSOX1 | | SEPP1 | | TETN | | THRB | | TRFE | | TSP1 | | TTHY | | VTNC | | VWF |  |  | | --- | | **Subject 1 only** | | APOD | | FCN3 | | HV118 | | ITIH2 | | K22E | | KV116 | | LV949 | | PGRP2 | | SPTA1 |  |  | | --- | | **Subject 9 only** | | A2AP | | AMBP | | ANT3 | | CELR2 | | CO5 | | DEF3 | | HV364 | | HV372 | | IGHD | | ITB3 | | KV127 | | KV228 | | LBP | | LV218 | | LV321 | | MYH9 | | |  | | --- | | MYL6 | | TBB1 | | TPM4 | | TRFL | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |

Comparison of Proteins Associated with Fe3O4 NPs Following Incubation in Human Plasma Subject 1 and Subject 10 Prior to Exercise

UniProtKB Entry Name

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  | | --- | | **In Common** | | A1AT | | A2MG | | ACTB | | ALS | | APOA1 | | APOA2 | | APOA4 | | APOA | | APOB | | APOC1 | | APOC2 | | APOC3 | | APOE | | APOH | | APOL1 | | C1QA | | C1QB | | C1QC | | C1S | | C4BPA | | C4BPB | | CBPN | | CD5L | | CFAD | | CFAH | | CLUS | | CO3 | | CO4B | | CO8A | | CO8B | | CO9 | | CXCL7 | | CYTC | | FA11 | | FA12 | |  | |  | | |  | | --- | | FA5 | | FCGBP | | FCN3 | | FETUA | | FHR1 | | FHR2 | | FIBA | | FIBB | | FIBG | | FINC | | GELS | | HBB | | HEMO | | HGFA | | HGFL | | HPTR | | HPT | | HRG | | HV118 | | HV307 | | HV315 | | HV349 | | HV374 | | HV434 | | HV551 | | HV601 | | IBP3 | | IBP4 | | IC1 | | IGF1 | | IGF2 | | IGHA1 | | IGHG1 | | IGHG2 | | IGHG3 | | IGHG4 | |  | |  | | |  | | --- | | IGHM | | IGJ | | IGKC | | IGLC2 | | IGLL5 | | ITIH4 | | K22E | | K2C1 | | KLKB1 | | KNG1 | | KV105 | | KV108 | | KV112 | | KV116 | | KV117 | | KV224 | | KV230 | | KV315 | | KV320 | | KV401 | | KVD11 | | KVD13 | | KVD39 | | LG3BP | | LV147 | | LV151 | | LV310 | | LV319 | | LV325 | | LV861 | | LV949 | | LYSC | | MUCB | | PCOC1 | | PEDF | | PLF4 | |  | |  | | |  | | --- | | PLMN | | POLN\_SFV | | PON1 | | PRG4 | | PROP | | PROS | | QSOX1 | | SEPP1 | | TETN | | THRB | | TRFE | | TSP1 | | TTHY | | VTNC | | VWF |  |  |  | | --- | --- | | **Subject 1 only** | | | ACTS | | | APOD | | | FLNA | | | HV309 | | | HV313 | | | ITA2B | | | ITIH2 | | | PGRP2 | | | SPTA1 | | | **Subject 10 only** | | A2AP | | AMBP | | ANT3 | | CELR2 | | FCN2 | | HV364 | | HV372 | | IGHD | |  | |  | | |  |  | | --- | --- | | IGLL1 | | | KVD15 | | | LV321 | | LV657 | | MGP | | MMAA | | NFX1 | | P2Y13 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |