**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 |  |

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| **Subjects** |
| 1, 2, 3, 4, 6, 7, 8, 9, 10  |
| **Subjects** |
| 1, 2, 4, 5, 6, 8, 7, 9, 10 |

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| **Subjects** |
| 1, 2, 3, 4, 5, 6, 7, 8, 9  |

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| **Subjects** |
| 1, 2, 3, 4, 6, 7, 8, 10

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| **Subjects** |
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| **Subjects** |
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| **Subjects** |
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| **Subjects** |
| 1, 2, 3, 4, 7, 8, 9, 10  |

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| **Subjects** |
| 1, 2, 3, 4, 5, 6, 7, 9  |

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| **Subjects** |
| 2, 3, 4, 5, 7, 8, 9, 10  |

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| --- |
| **Subjects** |
| 1, 2, 4, 6, 8, 9, 10 |

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| --- |
| **# of Proteins in Common** |
| 1 |

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| --- |
| **# of Proteins in Common** |
| 5 |

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| --- |
| **# of Proteins in Common** |
| 3 |

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| --- |
| **# of Proteins in Common** |
| 1 |

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| **# of Proteins in Common** |
| 1 |

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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
| 1 |

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| **# of Proteins in Common** |
| 2 |

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| --- |
| **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 |

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| --- |
| **Proteins Shared** |
| HV364 |

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| --- |
| **Proteins Shared** |
| KV112 |
| LV325 |

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| **Subjects** |
| 1, 3, 4, 6, 8, 9, 10  |

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| **Subjects** |
| 1, 5, 6, 7, 8, 9, 10 |

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| **Subjects** |
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| **Subjects** |
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| **Subjects** |
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| **Subjects** |
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| **Subjects** |
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| **Subjects** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| --- |
| **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 |

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| --- |
| **Proteins Shared** |
| FCGBP |

|  |
| --- |
| **Proteins Shared** |
| LV861 |

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| --- |
| **Proteins Shared** |
| TPM4 |

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| --- |
| **Proteins Shared** |
| MYL6 |

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| **Subjects** |
| 1, 3, 6, 8, 10  |

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| **Subjects** |
| 2, 6, 8, 9, 10 |

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| **Subjects** |
| 4, 5, 7, 8, 9  |

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| **Subjects** |
| 2, 3, 5, 9, 10  |

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| **Subjects** |
| 1, 2, 6, 8 |

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| **Subjects** |
| 1, 2, 7, 9  |

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| **Subjects** |
| 2, 6, 8, 10 |

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| **Subjects** |
| 2, 4, 8, 10 |

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| **Subjects** |
| 2, 6, 7, 9 |

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| **Subjects** |
| 3, 5, 6, 9 |

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| **Subjects** |
| 2, 6, 8 |

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| **Subjects** |
| 4, 6, 8  |

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| **Subjects** |
| 3, 6, 9  |

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| **Subjects** |
| 4, 5, 9 |

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| **Subjects** |
| 6, 8  |

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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
| 1 |

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| **# of Proteins in Common** |
| 1 |

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|  |
| --- |
| **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 |

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| **# of Proteins in Common** |
| 1 |

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| --- |
| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| **# of Proteins in Common** |
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| --- |
| **# 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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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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 |

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|  |
| --- |
| 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 |

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|  |
| --- |
| 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 |

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| --- |
| 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 |

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

UniProtKB Entry Name

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| --- |
| **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 |

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| 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 |

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| --- |
| 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 |

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| --- |
| **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 |

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| --- |
| 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 |

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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 |

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| --- |
| 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 |

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| --- |
| 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 |

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| --- |
| PROS |
| QSOX1 |
| SEPP1 |
| TETN |
| THRB |
| TRFE |
| TSP1 |
| TTHY |
| VTNC |
| VWF |

|  |
| --- |
| **Subject 1 only** |
| FCGBP |
| HV118 |
| HV313 |
| ITIH2 |
| KVD39 |
| LV949 |
| PGRP2 |
| SPTA1 |

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| --- |
| **Subject 4 only** |
| A2AP |
| AMBP |
| FCN2 |
| HV364 |
| HV372 |
| IGHD |
| LV218 |
| ML12A |
| MYL6 |
| TBB1 |

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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 |

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| --- |
| 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 |

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| --- |
| 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 |

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|  |
| --- |
| VTNC |
| VWF |

|  |
| --- |
| **Subject 1 only** |
| APOD |
| CBPN |
| HV118 |
| HV313 |
| HV551 |
| IGF1 |
| ITIH2 |
| K22E |
| KV112 |
| KV116 |
| LV325 |
| LV861 |
| LYSC |
| PGRP2 |
| PLF4 |
| SPTA1 |

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| --- |
| **Subject 5 only** |
| CELR2 |
| HV364 |
| IBP5 |
| LV218 |
| LV321 |
| MYH9 |
| TBB1 |

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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 |

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| --- |
| 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 |

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| 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 |

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| --- |
| QSOX1 |
| SEPP1 |
| TETN |
| THRB |
| TRFE |
| TSP1 |
| TTHY |
| VTNC |
| VWF |

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| --- |
| **Subject 1 only** |
| FCGBP |
| FCN3 |
| HV313 |
| HV349 |
| HV551 |
| KVD13 |
| PGRP2 |
| POLN\_SFV |
| SPTA1 |

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| --- |
| **Subject 6 only** |
| A2AP |
| ALDOA |
| AMBP |
| ANT3 |
| CO5 |
| GPX3 |
| HV372 |
| ITB3 |
| ITIH1 |
| MGP |
| ML12A |
| MMRN1 |
| MYH9 |
| MYL6 |
| SHBG |
| TLN1 |

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| TPM4 |
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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 |

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| --- |
| 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 |

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| --- |
| 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 |

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| --- |
| TRFE |
| TSP1 |
| TTHY |
| VTNC |
| VWF |

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| --- |
| **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 |

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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 |

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| --- |
| 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 |

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| --- |
| 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 |

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|  |
| --- |
| 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 |

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| LV218 |
| LV321 |
| LV469 |
| MGP |
| ML12A |
| MYL6 |
| TPM4 |
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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 |

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| --- |
| 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 |

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| --- |
| 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 |

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|  |
| --- |
| 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 |

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| --- |
| MYL6 |
| TBB1 |
| TPM4 |
| TRFL |
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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 |
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| --- |
| 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 |
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| --- |
| IGHM |
| IGJ |
| IGKC |
| IGLC2 |
| IGLL5 |
| ITIH4 |
| K22E |
| K2C1 |
| KLKB1 |
| KNG1 |
| KV105 |
| KV108 |
| KV112 |
| KV116 |
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| KV224 |
| KV230 |
| KV315 |
| KV320 |
| KV401 |
| KVD11 |
| KVD13 |
| KVD39 |
| LG3BP |
| LV147 |
| LV151 |
| LV310 |
| LV319 |
| LV325 |
| LV861 |
| LV949 |
| LYSC |
| MUCB |
| PCOC1 |
| PEDF |
| PLF4 |
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| 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 |
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| IGLL1 |
| KVD15 |
| LV321 |
| LV657 |
| MGP |
| MMAA |
| NFX1 |
| P2Y13 |
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