

SUPPLEMENTAL DATA

Table S1. List of the 43 proteins with statistically significant CSF concentration changes between baseline and 6 months in the whole cohort. Proteins are ordered in alphabetical order.

Protein Name	NPX Baseline	NPX 6 Months	p-value
5'-NT	5.711922	5.381071	0.037223
ARSA	4.735977	4.267065	0.000504
ARSB	2.361769	1.872142	0.000017
BCAN	8.673662	8.442559	0.001875
CD164	8.232515	7.939035	0.016380
CD200	10.669911	10.152285	0.019400
CDCP1	2.720409	2.316968	0.001386
CLSTN2	10.854361	10.494110	0.008050
CNTNAP2	8.382700	7.912044	0.006442
CPE	7.993343	7.419813	0.006202
CTSD	5.826079	5.623149	0.039212
CTSH	3.469933	2.975400	0.018446
CTSO	6.632594	5.974313	0.000683
CTSV	2.001149	1.748090	0.023094
CTSZ	5.307407	5.001827	0.003184
DDR1	7.420804	6.918903	0.008615
DPP7	7.491654	6.970284	0.000253
ENTPD2	3.391056	2.823861	0.000016
ERBB4	10.491324	10.159281	0.041420
FUCA1	6.560719	6.302826	0.032307
GPC1	2.355918	1.873136	0.012237
GUSB	3.098409	2.821535	0.011704
IFI30	1.279295	0.883697	0.004786
IGSF3	3.717674	3.354756	0.009366
IL17RB	3.243106	2.903834	0.007429
LRIG1	5.800243	5.203965	0.000788

MARCO	2.720275	2.258831	0.005611
MDGA1	4.437453	3.829840	0.012666
N2DL-2	4.456201	3.806864	0.003843
NEFL	7.852687	6.716491	0.001734
NEP	0.562517	0.395756	0.012042
PLXNA4	3.242533	2.860491	0.034911
RET	3.639689	3.294613	0.016265
ROBO2	5.222094	4.775604	0.037431
RTN4R	5.639478	5.236186	0.004936
SEMA7A	9.212509	8.657786	0.011994
SMPD1	1.501108	1.080332	0.026106
SUMF2	5.917254	5.646664	0.039325
TLR3	4.776156	4.359870	0.040837
TMPRSS5	5.896337	5.429499	0.040542
TN-R	6.365707	6.156418	0.041959
TPP1	10.119076	9.605972	0.000295
WIF-1	6.233285	5.618720	0.029001

Figure S1. Individual patient-level changes in each of the five identified proteins between T0 and T6. Y axis represents NPX values and x axis is individual patient number. Data is shown for motor improvers on the left (a) to (e) compared with non-improvers on the right (f) to (j). Each row represents one of the selected proteins with (a) and (f) ARSB, (b) and (g) ENTPD2, (c) and (h) NEFL, (d) and (i) IFI30, and (e) and (j) CTSD. Patients are ordered from youngest to oldest at T0. Only NEFL in (c) and (h) appeared to show an effect of age on baseline concentration and post-treatment change.

