

SUPPLEMENTARY MATERIAL

Supplemental Table 1: A complete list of significantly altered proteins and within SH-SY5Y cell treated with 100nM T30 for 3 DIV. Peptide abundance determined by precursor ion quantification in Proteome Discoverer v2.4.

Gene Symbol	Description	log ₂ fold change T30	fold change T30 p-value
A2M	alpha-2-macroglobulin isoform X1	-2.41E+00	1.02E-07
AKT3	RAC-gamma serine/threonine-protein kinase isoform X1	7.74E-01	3.72E-02
ALB	serum albumin preproprotein	-1.19E+00	4.18E-03
ANKRD44	serine/threonine-protein phosphatase 6 regulatory ankyrin repeat subunit B isoform X1	1.68E+00	3.46E-03
ARF5	ADP-ribosylation factor 5	8.42E-01	6.39E-05
ARHGAP33	rho GTPase-activating protein 33 isoform X9	-1.99E+00	3.22E-03
ARL8A	ADP-ribosylation factor-like protein 8A isoform 1	7.03E-01	6.96E-04
ARMC6	armadillo repeat-containing protein 6 isoform 1	8.75E-01	8.40E-03
ATP2B1	plasma membrane calcium-transporting ATPase 1 isoform X1	1.35E+00	3.76E-04
ATP5IF1	ATPase inhibitor, mitochondrial isoform 1 precursor	-2.23E+00	2.16E-04
ATP6V1C2	V-type proton ATPase subunit C 2 isoform X1	-9.05E-01	8.44E-03
ATP6V1G1	V-type proton ATPase subunit G 1	7.43E-01	2.71E-02
BAG2	BAG family molecular chaperone regulator 2	1.50E+00	4.07E-07
BCAP31	B-cell receptor-associated protein 31 isoform a	-1.46E+00	3.15E-02
BCL2L13	bcl-2-like protein 13 isoform X1	1.20E+00	7.46E-05
BTF3L4	transcription factor BTF3 homolog 4 isoform 1	6.85E-01	1.06E-03
CAMK1G	calcium/calmodulin-dependent protein kinase type 1G	9.85E-01	2.33E-07
CENPF	centromere protein F	1.50E+00	3.46E-02
CHGB	secretogranin-1 precursor	7.98E-01	3.58E-02
CISD3	CDGSH iron-sulfur domain-containing protein 3, mitochondrial precursor	1.24E+00	1.65E-05
CKS2	cyclin-dependent kinases regulatory subunit 2	2.28E+00	5.11E-10
CLUH	clustered mitochondria protein homolog isoform X1	1.03E+00	1.99E-07
COPG1	coatamer subunit gamma-1	7.27E-01	3.05E-02
COTL1	coactosin-like protein	1.44E+00	4.69E-02
COX5A	cytochrome c oxidase subunit 5A, mitochondrial precursor	-9.86E-01	6.22E-03

CRADD	death domain-containing protein CRADD isoform 1	8.00E+00	1.36E-02
CUTA	protein CutA isoform 1	5.68E-01	8.34E-03
DENND2A	DENN domain-containing protein 2A isoform a	1.21E+00	2.56E-03
DEPDC1	DEP domain-containing protein 1A isoform a	1.23E+00	8.15E-05
DHRS7B	dehydrogenase/reductase SDR family member 7B isoform X1	1.69E+00	5.08E-03
DHTKD1	probable 2-oxoglutarate dehydrogenase E1 component DHKTD1, mitochondrial	2.88E+00	3.07E-16
DLL3	delta-like protein 3 isoform 1 precursor	1.07E+00	7.70E-07
DNAAF5	dynein assembly factor 5, axonemal	7.08E-01	1.81E-02
DNAH10	dynein heavy chain 10, axonemal isoform X1	3.34E+00	3.07E-16
DNAJA4	dnaJ homolog subfamily A member 4 isoform 1	1.26E+00	8.46E-10
DNAJB4	dnaJ homolog subfamily B member 4 isoform a	1.07E+00	1.35E-02
DPF2	zinc finger protein ubi-d4 isoform X1	1.40E+00	3.40E-04
EIF4ENIF1	eukaryotic translation initiation factor 4E transporter isoform X1	1.73E+00	2.26E-03
ENOPH1	enolase-phosphatase E1 isoform 1	6.83E-01	1.06E-03
ENY2	transcription and mRNA export factor ENY2 isoform 1	8.38E-01	1.08E-04
EYS	protein eyes shut homolog isoform 4 precursor	1.87E+00	9.77E-03
FAM213A	redox-regulatory protein FAM213A isoform X1	6.20E-01	2.75E-03
FAM3C	protein FAM3C isoform X1	-1.30E+00	9.81E-03
FARS2	phenylalanine--tRNA ligase, mitochondrial	1.49E+00	1.03E-03
FKBP15	FK506-binding protein 15	1.33E+00	5.59E-04
FLJ10769	ATP-dependent (S)-NAD(P)H-hydrate dehydratase isoform a	1.32E+00	1.04E-03
FLOT2	flotillin-2 isoform X1	1.07E+00	8.91E-03
FSD1L	FSD1-like protein isoform X1	2.15E+00	8.46E-10
FSIP2	fibrous sheath-interacting protein 2	-1.09E+00	2.11E-02
GGA2	ADP-ribosylation factor-binding protein GGA2	1.82E+00	5.18E-03
GNE	bifunctional UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase isoform 1	9.47E-01	2.44E-02
GOLGA4	golgin subfamily A member 4 isoform X1	1.76E+00	5.33E-03
GTF2A1	transcription initiation factor IIA subunit 1 isoform 1	1.19E+00	3.01E-03
H2AC6	histone H2A type 1-C	6.43E-01	2.92E-03
H3C1	histone H3.1	-1.01E+00	1.31E-03
HAUS8	HAUS augmin-like complex subunit 8 isoform a	1.71E+00	4.00E-03

HBS1L	HBS1-like protein isoform 1	1.46E+00	1.66E-03
HECTD4	probable E3 ubiquitin-protein ligase HECTD4	1.07E+00	7.07E-03
HEXA	beta-hexosaminidase subunit alpha isoform 1 precursor	1.54E+00	3.11E-09
HMCN1	hemicentin-1 precursor	2.58E+00	3.07E-16
HMGN2	non-histone chromosomal protein HMG-17	-1.63E+00	1.83E-02
HNRNPR	heterogeneous nuclear ribonucleoprotein R isoform X1	2.53E+00	3.85E-11
IQSEC1	IQ motif and SEC7 domain-containing protein 1 isoform X2	1.39E+00	1.34E-03
IRAK1	interleukin-1 receptor-associated kinase 1 isoform 1	2.50E+00	2.76E-05
IRF3	interferon regulatory factor 3 isoform X2	1.89E+00	3.51E-04
ISOC2	isochorismatase domain-containing protein 2 isoform 2	9.44E-01	7.24E-03
ISY1	ISY1-RAB43 protein	9.72E-01	4.11E-04
KBTBD3	kelch repeat and BTB domain-containing protein 3 isoform 1	-1.09E+00	4.35E-02
KCNAB2	voltage-gated potassium channel subunit beta-2 isoform X5	1.96E+00	1.89E-03
KHDRBS1	KH domain-containing, RNA-binding, signal transduction-associated protein 1 isoform 1	-1.18E+00	2.48E-04
KIF15	kinesin-like protein KIF15 isoform X1	1.12E+00	1.72E-02
KIF2C	kinesin-like protein KIF2C isoform 1	3.30E+00	3.07E-16
LAMB1	laminin subunit beta-1 isoform X1	1.66E+00	1.47E-05
LAMTOR3	ragulator complex protein LAMTOR3 isoform 1	5.50E-01	4.50E-02
LMAN2	vesicular integral-membrane protein VIP36 precursor	-8.97E-01	1.17E-02
LSM8	LSM8 homolog, U6 small nuclear RNA associated	-1.10E+00	4.70E-03
LTN1	E3 ubiquitin-protein ligase listerin isoform 1	1.23E+00	2.55E-03
MAPK1	mitogen-activated protein kinase 1	-1.07E+00	1.88E-02
MCUR1	mitochondrial calcium uniporter regulator 1	-8.60E-01	3.46E-02
METTL16	U6 small nuclear RNA (adenine-(43)-N(6))-methyltransferase	1.64E+00	1.18E-02
METTL3	N6-adenosine-methyltransferase catalytic subunit	5.18E-01	7.73E-03
MRPL50	39S ribosomal protein L50, mitochondrial	6.33E-01	3.22E-03
MRPS35	28S ribosomal protein S35, mitochondrial isoform 1 precursor	9.77E-01	7.20E-05
MSI2	RNA-binding protein Musashi homolog 2 isoform X1	1.10E+00	9.06E-08
NAGA	alpha-N-acetylgalactosaminidase isoform X1	2.22E+00	2.40E-04

NCOR1	nuclear receptor corepressor 1 isoform X1	7.71E-01	2.01E-02
NDE1	nuclear distribution protein nudE homolog 1 isoform X5	1.42E+00	3.84E-04
NDUFAF4	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 4	2.32E+00	6.08E-11
NEDD8	NEDD8 precursor	7.11E-01	2.14E-04
NF1	neurofibromin isoform 1	-1.27E+00	1.50E-02
NME1	nucleoside diphosphate kinase A isoform a	-1.09E+00	4.17E-02
NMRAL1	nmrA-like family domain-containing protein 1 isoform X2	1.64E+00	3.07E-16
NMU	neuromedin-U isoform 1 preproprotein	1.67E+00	7.95E-03
NOC3L	nucleolar complex protein 3 homolog	7.92E-01	1.38E-03
NOL8	nucleolar protein 8 isoform X1	9.15E-01	4.83E-02
NOSIP	nitric oxide synthase-interacting protein isoform X3	7.65E-01	2.36E-02
NT5DC1	5'-nucleotidase domain-containing protein 1	1.03E+00	2.38E-02
NUCB1	nucleobindin-1 isoform X1	4.09E-01	3.94E-02
NVL	nuclear valosin-containing protein-like isoform X2	2.41E+00	1.56E-04
NXN	nucleoredoxin isoform 1	1.37E+00	1.41E-02
OPA1	dynammin-like 120 kDa protein, mitochondrial isoform 8	5.50E-01	1.62E-02
ORC2	origin recognition complex subunit 2 isoform X1	2.00E+00	4.11E-04
PLRG1	pleiotropic regulator 1 isoform 1	-9.49E-01	2.84E-02
PODXL2	podocalyxin-like protein 2 precursor	1.98E+00	1.31E-03
PPFIA1	liprin-alpha-1 isoform X8	9.99E-01	6.38E-04
PTMA	prothymosin alpha isoform X1	-1.46E+00	4.98E-02
PTPN2	tyrosine-protein phosphatase non-receptor type 2 isoform X1	1.87E+00	2.75E-10
PUS1	tRNA pseudouridine synthase A isoform 1	1.52E+00	9.33E-05
RAB11FIP1	rab11 family-interacting protein 1 isoform 3	1.21E+00	9.66E-03
RFC2	replication factor C subunit 2 isoform 1	8.10E-01	1.96E-02
RIPK1	receptor-interacting serine/threonine-protein kinase 1 isoform 1	1.50E+00	3.36E-02
RPL15	60S ribosomal protein L15 isoform 1	-8.62E-01	1.99E-02
RPL26L1	60S ribosomal protein L26-like 1	-1.70E+00	3.07E-02
RPLP1	60S acidic ribosomal protein P1 isoform 1	5.70E-01	3.13E-03
RPS27	40S ribosomal protein S27 isoform 1	-1.09E+00	4.92E-03
RPS27A	ubiquitin-40S ribosomal protein S27a precursor	4.93E-01	1.19E-02
RPS5	40S ribosomal protein S5	-8.78E-01	1.54E-02

RSBN1L	round spermatid basic protein 1-like protein	1.07E+00	1.62E-02
RSU1	ras suppressor protein 1 isoform 1	1.62E+00	1.44E-05
S100A6	protein S100-A6	1.13E+00	4.09E-03
SCAF4	splicing factor, arginine/serine-rich 15 isoform 1	-1.29E+00	2.23E-03
SCOC	short coiled-coil protein isoform 1	1.40E+00	3.51E-04
SEC22B	vesicle-trafficking protein SEC22b precursor	5.18E-01	2.70E-02
SETD3	histone-lysine N-methyltransferase setd3 isoform X1	1.17E+00	3.36E-03
SGF29	SAGA-associated factor 29	2.03E+00	1.12E-08
SLC12A9	solute carrier family 12 member 9 isoform X1	1.80E+00	1.31E-03
SPG7	paraplegin isoform X1	2.67E+00	3.07E-16
SPIRE1	protein spire homolog 1 isoform X1	1.73E+00	2.36E-02
SRSF11	serine/arginine-rich splicing factor 11 isoform 3	4.83E-01	3.21E-02
STARD7	stAR-related lipid transfer protein 7, mitochondrial precursor	1.30E+00	2.53E-05
STK38	serine/threonine-protein kinase 38 isoform X1	5.33E-01	1.45E-02
STUB1	E3 ubiquitin-protein ligase CHIP isoform a	5.15E-01	1.45E-02
SUMO2	small ubiquitin-related modifier 2 isoform a precursor	-1.16E+00	1.23E-04
TAF1	transcription initiation factor TFIID subunit 1 isoform X1	1.15E+00	7.02E-04
TECPR1	tectonin beta-propeller repeat-containing protein 1	1.39E+00	4.86E-02
THOC2	THO complex subunit 2 isoform X1	1.20E+00	2.00E-03
TLR7	toll-like receptor 7 precursor	-1.91E+00	2.97E-03
TMA7	translation machinery-associated protein 7 isoform 1	-1.58E+00	7.11E-05
TMEM167A	protein kish-A precursor	1.42E+00	4.56E-02
TMEM230	transmembrane protein 230 isoform X1	-1.47E+00	4.36E-02
TMSB10	thymosin beta-10	-1.31E+00	1.04E-03
TOMM40	mitochondrial import receptor subunit TOM40 homolog	1.32E+00	4.79E-02
TP53BP1	TP53-binding protein 1 isoform 1	2.77E+00	9.04E-07
TP53RK	TP53-regulating kinase	1.48E+00	3.85E-02
TPM3	tropomyosin alpha-3 chain isoform Tpm3.2cy	2.26E+00	3.07E-16
TXN2	thioredoxin, mitochondrial isoform X1	1.92E+00	5.16E-04
UBE2A	ubiquitin-conjugating enzyme E2 A isoform 1	-1.50E+00	4.23E-02
UBE3C	ubiquitin-protein ligase E3C	6.67E-01	2.65E-02
UQCRCF1	cytochrome b-c1 complex subunit Rieske, mitochondrial	1.24E+00	6.33E-05

USP9X	probable ubiquitin carboxyl-terminal hydrolase FAF-X isoform X1	5.55E-01	2.50E-02
UTP14A	U3 small nucleolar RNA-associated protein 14 homolog A isoform 1	1.68E+00	1.41E-02
WDR3	WD repeat-containing protein 3	2.27E+00	5.77E-04
XPNPEP3	probable Xaa-Pro aminopeptidase 3 isoform 1	-8.65E-01	1.85E-02
YBX1	nuclease-sensitive element-binding protein 1	-8.55E-01	3.63E-02
ZDHHC6	palmitoyltransferase ZDHHC6 isoform X6	-2.44E+00	1.39E-04
ZNF48	zinc finger protein 48 isoform 1	1.29E+00	3.31E-03
ZNF830	zinc finger protein 830	1.63E+00	1.61E-02

