Fig. 1: **Summary of S-nitrosoprotein labeling and detection approaches**. A protein is indicated schematically with cysteines in the thiol, disulfide, and nitrosothiol states. First, free thiols (-SH) are rendered as inactive by methylthiolation with methanethiosulfonate (MMTS). Second, nitrosothiols (-SNO) are selectively reduced with ascorbate and converted to -SH. Third, the converted –SH is labeled with the thiol-modifying reagents, including biotin-HPDP, MTSEA-Texas Red or Cydye fluor. Biotin-labeled nitrosoproteins are detected by immunoblotting with an anti-biotin antibody or captured by avidin and then analyzed by specific antibody against each protein of interest. MTSEA-Texas Red labeled intact cells can be visualized by fluorescence microcopy. Cydye flour (Cy3 and Cy5) labeling coupled with 2D-DIGE can be used for proteomic analysis and nitrosoproteins identification by mass spectrometry.

Fig. 1

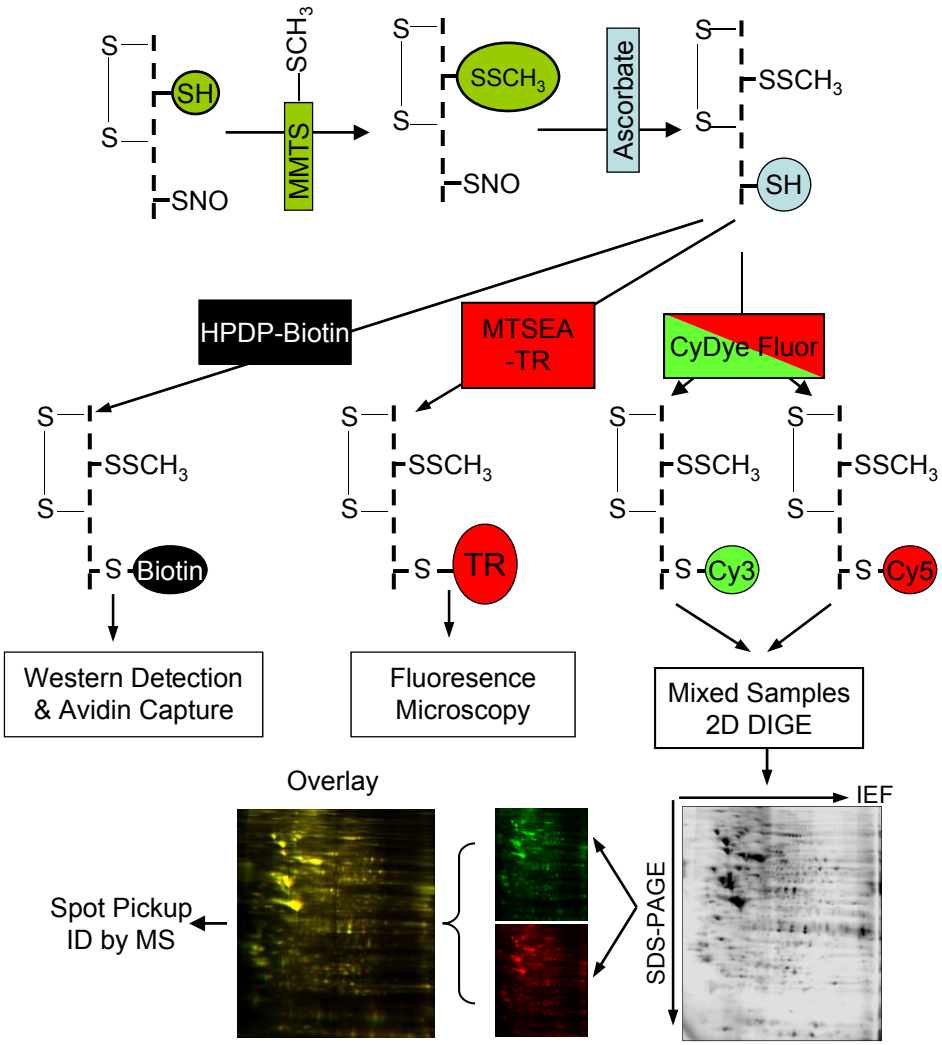
S
SH
S
SNO
SCH3
MMTS
S
SSCH3
S
SNO
Ascorbate
S
SSCH3
S
SH
HPDP-Biotin
MTSEA
-TR
CyDye Fluor
S
SSCH3
S
S
Biotin
S
SSCH3
S
S
TR
S
SSCH3
S
S
Cy3
S
SSCH3
S
S
Cy5
Western Detection
& Avidin Capture
Fluoresence
Microscopy
Mixed Samples
2D DIGE
Overlay
IEF
SDS-PAGE
Spot Pickup
ID by MS

Fig. 2: **Cyde switch, two dimensional fluorescence difference gel electrophoresis (2D-DIGE) analysis of nitrosoproteins by E2 in human umbilical vein endothelial cells (HUVEC).** As a supplement for figure 6 and table 1, black and white images shown fluorescent signals from the red and green channels of all three experiments are shown. The spots circled and numbered represents 58 nitrosoproteins as listed in table 1. Ratios (E2/control) in signal intensities for each spot were calculated for statistical analysis.

Fig. 2

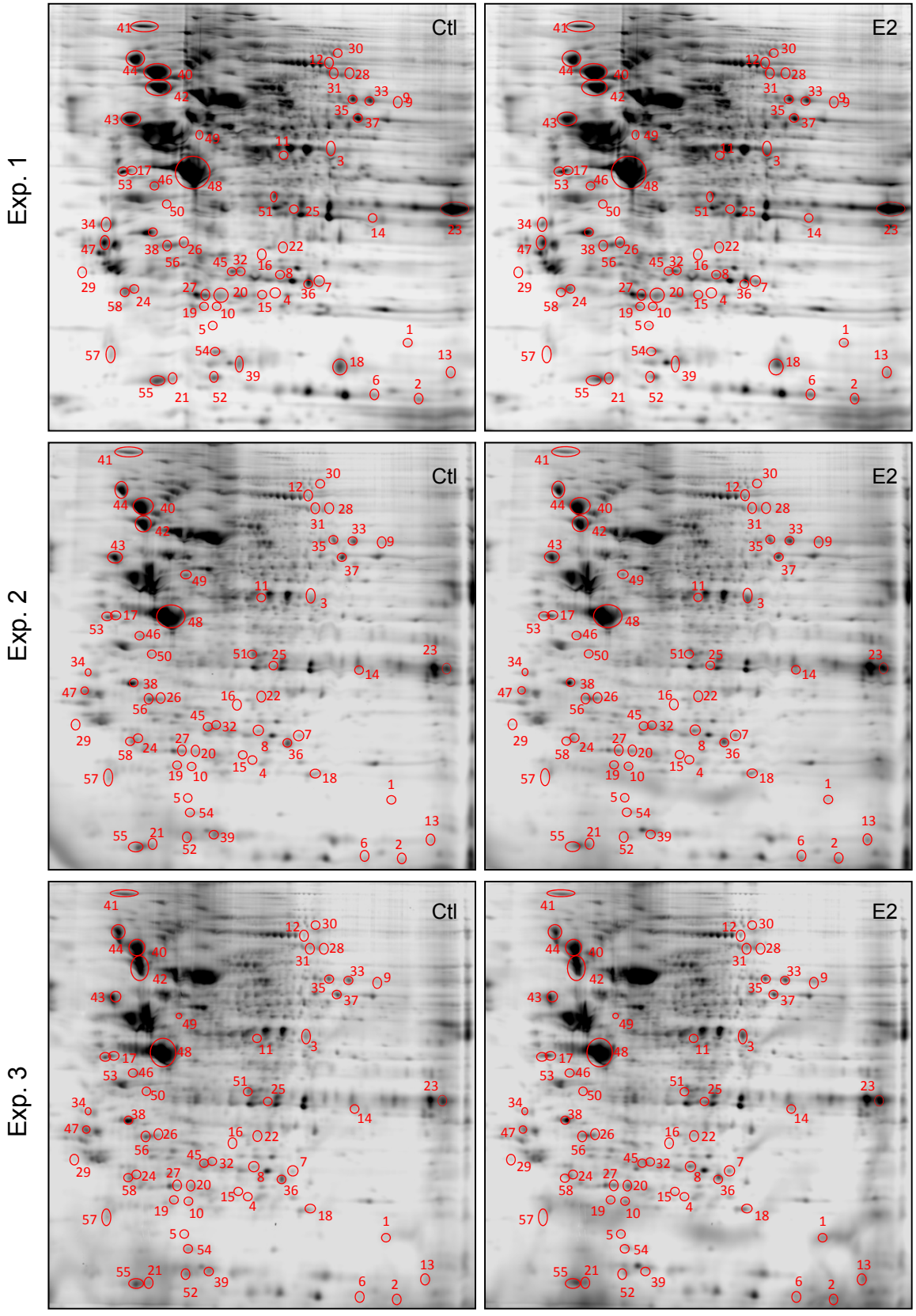

Table 1: Matched Peptide list in protein identification via Matrix assisted laser desorption/ionization-time of flight (MALDI-TOF)/tandam mass spectrometry

Spot #., Protein Name	# Pep Matched	Peptides Matched
1. Ubiquitin C (UBC)	5	EGIPPDQQR ESTLHLVLR TLSDYNIQK IQDKEGIPPDQQR TITLEVEPSDTIENVK
2.Peptidylprolyl isomerase A (PPIA)	9	VSFELFADK FEDENFILK EGMNIVEAMER GFGYKGSCFHR VSFELFADKVPK VKEGMNIVEAMER IIPGFMCQGGDFTR SIYGEKFEDENFILK VNPTVFFDIAVDGEPLGR
3.Enolase 1 (ENO1)	13	SGKYDLDFK IGAEVYHNLK LMIEMDGTENK GNPTVEVDLFTSK YISPDQLADLYK LAQANGWGVMVSHR VVIGMDVAASEFFR AAVPSGASTGIYEALELR LAMQEFMILPVGAANFR DATNVGDEGGFAPNILENK FTASAGIQVVGDDLTVTNPK DYPVVSIEDPFDQDDWGAWQK HIADLAGNSEVILPVPAFNVINGGSHAGNK
4.Proteasome (prosome, macropain) subunit, beta type, 3 (PSMB3)	7	DAVSGMGVIVHIIEK FGIQAQMVTTDFQK FGPYYTEPVIAGLDPK RFGIQAQMVTTDFQK RFGPYYTEPVIAGLDPK DAVSGMGVIVHIIEKDK LYIGLAGLATDVQTVAQR
5.Adenine phosphoribosyl Transferase (APRT)	6	IDYIAGLDSR DISPVLKDPASFR SFPDFPTPGVVFR LAPVPFFSLLQYE AELEIQKDALEPGQR LPGPTLWASYSLEYGK
6.Peptidylprolyl isomerase A (PPIA)	9	VSFELFADK FEDENFILK EGMNIVEAMER GFGYKGSCFHR VSFELFADKVPK VKEGMNIVEAMER IIPGFMCQGGDFTR SIYGEKFEDENFILK VNPTVFFDIAVDGEPLGR
7.Triosephosphate isomerase 1 (TPI1)	14	FFVGGNWK KFFVGGNWK SNVSDAVAQSTR FFVGGNWKMNGR QSLGELIGTLNAAK HVFGESDELIGQK TATPQQAQEVHEK DCGATWVVLGHSER KQSLGELIGTLNAAK VVLAYEPVWAIGTGK RHVFGESDELIGQK VTNGAFTGEISPGMIK VPADTEVVCAPPTAYIDFAR

		ELASQPDVDGFLVGGASLKPEFVDIINAK
8.Peroxiredoxin 6 (PRDX6)	13	VVFVFGPDK AAKLAPEFAK RVATPVDWK LPFPIIDDR VVFVFGPDKK LSILYPATTGR VVISLQLTAEKR DFTPVCTTELGR DGDSVMVLPTIPEEEAK ELAILLGMLDPAEKDEK LIALSIDSVEDHLAWSK FHDFLGDSWGILFSHPR PGGLLLGDVAPNFEANTTVGR
9.Transketolase (TKT)	18	KAYGQALAK HQPTAIIAK NSTFSEIFK ESWHGKPLPK NSTFSEIFKK ISSDLDGHPVPK LDNLVAILDINR KISSDLDGHPVPK VLDPFTIKPLDR MFGIDRDAIAQAVR TVPFCSTFAAFFTR SVPTSTVFYPSDGVATEK GITGVEDKESWHGKPLPK ILATPPQEDAPSVDIANIR LGQSDPAPLQHQMDIYQK TSRPENAIIYNNNEDFQVGQAK SKDDQVTVIGAGVTLHEALAAAELLK ILTVEDHYYEGGIGEAVSSAVVGEPGITVTHLA VNR
10.Peroxiredoxin 2 (PRDX2)	7	IGKPAPDFK ATAVVDGAFK LSEDYGVLK RLSEDYGVLK QITVNDLPVGR EGGLGPLNIPLLADVTR KEGGLGPLNIPLLADVTR
11.Eukaryotic translation elongation factor 1 gamma (EEF1G)	16	QAFPNTNR QVLEPSFR STFVLDEFK ILGLLDAYLK AKDPFAHLPK STFVLDEFKR RILGLLDAYLK ALIAAQYSGAQVR LDPGSEETQTLVR DGWSLWYSEYR WFLTCINQPQFR KLDPGSEETQTLVR EYFSWEGAFQHVGK VLSAPPHFHFGQTNR YSNEDTLSVALPYFWEHFDK GQELAFPLSPDWQVDYESYTWR
12.Eukaryotic translation elongation factor (EEF2)	21	GGGQIIPTAR GEGQLGPAER GPLMMYISK VFDAIMNFK QFAEMYVAK VNFTVDQIR VFSGLVSTGLK YEWDVAEAR EDLYLKPIQR NMSVIAHVDHGK DSVVAGFQWATK KEDLYLKPIQR EGIPALDNFLDKL

		TGTITTFEHAHNMR AYLPVNESFGFTADLR GHVFEESQVAGTPMFVVK RGHVFEESQVAGTPMFVVK ARPFPDGLAEDIDKGEVSAR STAISLFYELSENDLNFIK ALLELQLEPEELYQTFQR DGAGFLINLIDSPGHVDFSSEVTAALR
13.Cofilin 1(CFL1)	7	MLPDKDCR YALYDATYETK LGGSAVISLEGKPL HELQANCYEEVKDR KEDLVFIFWAPESAPLK EILVGDVGQTVDDPYATFVK NIILEEGKEILVGDVGQTVDDPYATFVK
14.Annexin A2 (ANXA2)	17	WISIMTER AYTNFDAER STVHEILCK QDIAFAYQR TPAQYDASELK TNQELQEINR DIISDTSGDFRK SLYYYIQQDTK SYSPYDMLESIR GVDEVTIVNILTNR SYSPYDMLESIRK SALSGHLETVILGLLK TDLEKDIISDTSGDFR LSLEGDHSTPPSAYGSVK AEDGSVIDYELIDQDAR RAEDGSVIDYELIDQDAR AYTNFDAERDALNIETAIK
15.Parkinson disease (autosomal recessive, early onset) 7 (PARK7)	7	EILKEQENR VEKDGLILTSR MMNGGHYTYSENR GAEEMETVIPVDVMR MMNGGHYTYSENRVEK GPGTSFEFALAIVEALNGK EGPYDVVVLPGGNLGAQNLSESAAVK
16.Glutathione S-transferase omega 1 (GSTO1)	11	MILELFSK LEEVLTNKK VPSLVGSFIR HEVININLK LLPDDPYEK LKLWMAAMK NKPEWFFK KLLPDDPYEK GSAPPGPVPEGSIR EDYAGLKEEFR EFTKLEEVLTNK
17.Lectin, galactoside-binding, soluble, 3 (LGALS3)	10	SDGIYIINLK FAAATGATPIAGR KSDGIYIINLK GAHSVGLMWWMLAR FTPGTFTNQIQAAFR AIVAIENPADVSVISSR EHPWEVMPDLYFYR FTPGTFTNQIQAAFREPR FLAAGTHLGGTNLDFQMEQYIYK EHPWEVMPDLYFYRDPEEIEK
18.Transgelin 2 (TAGLN2)	12	DVGRPQPGR IQASTMAFK ENFQNWLK KDVGRPQPGR NVIGLQMGTNR TLMNLGGLAVAR NFSDNQLQEGK GASQAGMTGYGMPR DDGLFSGDPNWFPK QMEQISQFLQAAER

		YGINTTDIFQTVDLWEGK DGTVLCELINALYPEGQAPVK
19.RNA binding motif protein 8A (RBM8A)	5	FAEYGEIK NIHLNLDR NIHLNLDRR GYTLVEYETYK MREDYDSVEQDGDEPGPQR
20.Glutathione S-transferase pi 1 (GSTP1)	6	MLLADQGQSWK PPYTVVYFPVR EEVVTVETWQEGSLK FQDGDLTLYQSNTILR DQQEAALVDMVNDGVEDLR ALPGQLKPFETLLSQNQGGK
21.Eukaryotic translation initiation factor 5A (EIF5A)	7	VHLVGIDIFTGK EDLRLPEGDLGK VHLVGIDIFTGKK LPEGDLGKEIEQK NDFQLIGIQDGYLSLLQDSGEVR RNDFQLIGIQDGYLSLLQDSGEVR MADDLDFETGDAGASATFPMQCSALR
22.Nucleoside phosphorylase (NP)	15	LVFGFLNGR VFGFSLITNK ANHEEVLAAGK FPAMSDAYDR FEVGDIMLIR VIMDYESLEK NTAEWLLSHTK FHMYEGYPLWK FGDRFPAMSDAYDR DHINLPGFSGQNPLR LGADAVGMSTVPEVIVAR LEQFVSILMASIPLPDK LVFGFLNGRACVMMQGR LTQAQIFDYGEIPNFPR VFHLLGVDTLVVTNAAGGLNPK
23.Glyceraldehyde-3-phosphate dehydrogenase (GAPDH)	9	GALQNIIPASTGAAK VPTANVSVVDLTCR LVINGNPITIFQER LISWYDNEFGYSNR LVINGNPITIFQERDPSK VIISAPSADAPMFVMGVNHEK WGDAGAEYVVESTGVFTTMEK RVIISAPSADAPMFVMGVNHEK VIHDNFGIVEGLMTTVHAITATQK
24.Proteasome (prosome, macropain) subunit, beta type, 6 (PSMB6)	5	TTTGSYIANR QVLLGDQIPK LAAIAESGVER VTDKLTPIHDR QSFAIGGSGSSYIYGYVDATYR
25.Annexin A1 (ANXA1)	10	DITSDTSGDFR TPAQFDADELR GVDEATIIDILTK GVDEATIIDILTKR ALTGHLEEVVLALLK GLGTDEDTLIEILASR AAYLQETGKPLDETLK AAYLQETGKPLDETLKK QAWFIENEEQEYVQTVK GGPGSAVSPYPTFNPSSDVAALHK
26.Chloride intracellular channel 1 (CLIC1)	8	YLSNAYAR IGNCPFSQR GFTIPEAFR LFMVLWLK GVTFNVTTVDTK LAALNPESNTAGLDIFAK EEFASTCPDDEEIELAYE VLDNYLTSPLPEEVDETSAEDEGVSQR
27.ATP synthase, H+ transporting, mitochondrial F0 complex, subunit d (ATP5H)	11	AGLVDDFEK SWNETLTSR SCAEWVSLSK

		AGLVDDFEKK IVEYEKEMEK YPYWPHQPIENL YTAQVDAEEKEDVK KYPYWPHQPIENL TIDWVAFAEIIPQNQK LAALPENPPAIDWAYYK NLIPFDQMTIEDLNEAFPETK
28.Phosphofructokinase, platelet (PFKP)	18	VTILGHVQR FLEHLSGAGK KQTDFEHR TFVLEVMGR SFAGNLNTYK KFLEHLSGAGK YLEEIATQMR NVIFQPVAELK EWSGLLEELAR ELVVTQLGYDTR DLQSNVEHLTEK KEWSGLLEELAR MLAIYDGFDGFAK IKELVVTQLGYDTR AIGVLTSGGDAQGMNAAVR NVLGHMQQGGAPSPFDR IIEVVDAIMTTAQSHQR ASYDVSDSGQLEHVQPWSV
29.Eukaryotic translation initiation factor 6 (EIF6)	5	NSLPDTVQIR LNEAQPSTIATSMR ETEEILADVLKVEVFR HGLLVPNNTTDQELQHIR TSIEDQDELSSLLQVPLVAGTVNR
30.Staphylococcal nuclease and tudor domain containing 1 (SND1)	25	QINLSNIR VLSGCAIIVR EGLVMVEVR QFLPFLQR GLATVIRYR FVDGEWYR LGTLSPAFSTR ADDADEFGYSR TIHLSSIRPPR IHVFYIDYGNR DTPDEPWAFPAR SEAVVEYVFSGSR SSHYDELLAAEAR VITEYLNAQESAK LIGKEVCFTIENK KGMWSEGNGSHTIR EADGSETPEPFAAEAK NDIASHPPVEGSYAPR LRPLYDIPYMFEAR ANNPEQNRLSECEEQAK HFVDSHHQKPVNAIIEHVR NLPGLVQEGEPFSEEATLFTK VWAHYEEQPVEEVMPVLEEK VLPAQATEYAFAFIQVPQDDDA VNVTVDYIRPASPATETVPAFSER
31.DEAD (Asp-Glu-Ala-Asp) box polypeptide 1 (DDX1)	11	MDQAIIFCR WQMNPYDR ELLIIGGVAAR DLGLAFEIPPHMK FNFGEEEFKFPPK GHVDILAPTVQELAALEK DQLSVLENGVDIVVGTPGR DNTRPGANSPEMWSEAIK GIDIHGVPYVINVTLPDEK EAQTSFLHLGYLPNQLFR FLVLDEADGLLSQGYSDFINR
32.Heat shock 27kDa protein 1 (HSPB1)	11	DWYPHSR GPSWDPFR RVPFSLLR

		QLSSGVSEIR QDEHGYISR LFDQAFGLPR HEERQDEHGYISR QLSSGVSEIRHTADR VSLDVNHFAPDELTVK GPSWDPFRDWYPHSR LATQSNEITIPVTFESR
33.Transketolase (TKT)	11	NSTFSEIFKK LDNLVAILDINR VLDPFTIKPLDR TVPFCSTFAAFFTR SVPTSTVFYPSDGVATEK GITGVEDKESWHGKPLPK ILATPPQEDAPSVDIANIR LGQSDPAPLQHQMDIYQK TSRPENAIIYNNNEDFQVGQAK SKDDQVTVIGAGVTLHEALAAAELLK ILTVEDHYYEGGIGEAVSSAVVGEPGITVTHLA VNR
34.Proliferating cell nuclear antigen (PCNA)	7	SEGFDTYR FSASGELGNGNIK NLAMGVNLTSMSK AEDNADTLALVFEAPNQEK ATPLSSTVTLSMSADVPLVVEYK LMDLDVEQLGIPEQEYSCVVK LSQTSNVDKEEEAVTIEMNEPVQLTFALR
35.Far upstream element (FUSE) binding protein 1 (FUBP1)	22	LLDQIVEK AWEEYYK SVMTEEYK EMVLELIR IAQITGPPDR AWEEYYKK GTPQQIDYAR VPDGMVGFIIGR SVQAGNPGGPGPGGR IGGNEGIDVPIPR RPLEDGDQPDAK IQIAPDSGGLPER RPLEDGDQPDAKK IQFKPDDGTTPER MVMIQDGPQNTGADKPLR IGGDAGTSLNSNDYGYGGQK SVMTEEYKVPDGMVGFIIGR IQQESGCKIQIAPDSGGLPER VAPQNDSFGTQLPPMHQQQSR QQAAYYAQTSPQGMPQHPPAPQGQ GRPAPGFHHGDGPGNAVQEIMIPASK MGQAVPAPTGAPPGGQPDYSAAWAEYYR
36.Proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2)	11	RLTPTEVK AANGVVLATEK SVHKVEPITK GYSFSLTTFSPSGK LTPTEVKDYLAAIA HIGLVYSGMGPDYR LVQIEYALAAVAGGAPSVGIK YNEDLELEDAIHTAILTLK RYNEDLELEDAIHTAILTLK LAQQYYLVYQEPIPTAQLVQR KLAQQYYLVYQEPIPTAQLVQR
37.Pyruvate kinase (PKM2)	18	IENHEGVR MMIGRCNR GDYPLEAVR ASDVHEVRK GDLGIEIPAEK ITLDNAYMEK LDIDSPPITAR IYVDDGLISLQVK DPVQEAWAEDVDLR FDEILEASDGIMVAR

		GADFLVTEVENGGSLGSK RFDEILEASDGIMVAR FGVEQDVDMVFASFIR LNFSHGTHEYHAETIK EAEAAIYHLQLFEELR EAEAAIYHLQLFEELRR LAPITSDPTEATAVGAVEASFK TATESFASDPILYRPVAVALDTK
38.Annexin A5 (ANXA5)	15	FITIFGTR VLTEIIASR LYDAYELK SEIDLFNIR LIVALMKPSR GAGTDDHTLIR SEIDLFNIRK NFATSLYSMIK GTVTDFPGFDER ETSGNLEQLLLAVVK GLGTDEESILTLLTSR SIPAYLAETLYYAMK WGTDEEKFITIFGTR YMTISGFQIEETIDR QVYEEEYGSSLEDDVVGDTSGYYQR
39.Cofilin 1(CFL1)	4	YALYDATYETK LGGSAVISLEGKPL KEDLVFIFWAPESAPLK NIILEEGKEILVGDVGQTVDDPYATFVK
40.Heat shock protein 90kDa alpha (cytosolic), class A member 1 (HSP90AA1)	19	APFDLFENR HIYYITGETK DQVANSAFVER APFDLFENRK TDTGEPMGRGTK RAPFDLFENR EDQTEYLEER DNSTMGYMAAKK HFSVEGQLEFR GVVDSEDLPLNISR SLTNDWEDHLAVK HSQFIGYPITLFVEK HLEINPDHSIIETLR NPDDITNEEYGEFYK KHLEINPDHSIIETLR VILHLKEDQTEYLEER HNDDEQYAWESSAGGSFTVR RVFIMDNCEELIPEYLNFIR
41.Thrombospondin 1 (THBS1)	20	FYVVMWK GFLLLASLR GPDPSSPAFR SITLFVQEDR TIVTTLQDSIR LCNNPTPQFGGK GTSQNDPNWVVR FVFGTTPEDILR NALWHTGNTPGQVR DNCQYVYNVDQR QVTQSYWDTNPTR GGVNDNFQGVLQNVR CNYLGHYSDPMYR DDDYAGFVFGYQSSSR MENAELDVPIQSVFTR FTGSQPFGQGVEHATANk QHVVSVEEALLATGQWK CENTDPGYNCLPCPPR DLQAICGISCDELSSMVLELR IEDANLIPPVPDDKFQDLVDAVR
42.Heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa) (HSPA5)	26	LTPEEIER ALSSQHQAR ITITNDQNR VYEGERPLTK EFFNGKEPSR

		DAGTIAGLNVMR VEIIANDQGNR FEELNMDLFR NELESYAYSLK ELEEIVQPIISK TWNDPSVQQDIK SDIDEIVLVGGSTR AKFEELNMDLFR TFAPEEISAMVLTK ITPSYVAFTPEGER KSDIDEIVLVGGSTR TKPYIQVDIGGGQTK NQLTSNPENTVFDAK IINEPTAAAIAYGLDKR VTHAVVTVPAYFNDAQR DNHLLGTFDLTGIPPAPR IEWLESHQDADIEDFK GVPQIEVTFEIDVNGILR KVTHAVVTVPAYFNDAQR IEIESFYEGEDFSETLTR LYGSAGPPPTGEEDTAEKDEL
43.Prolyl 4-hydroxylase, beta polypeptide (P4HB)	17	ILEFFGLK QLAPIWDK LKAEGSEIR TVIDYNGER THILLFLPK SNFAEALAAHK EADDIVNWLK NFEDVAFDEK NFEDVAFDEKK YQLDKDGVVLFK YKPESEELTAER LGETYKDHENIVIAK VDATEESDLAQQYGVR ILFIFIDSDHTDNQR HNQLPLVIEFTEQTAPK NNFEGEVTKENLLDFIK QFLQAAEAIDDIPFGITSNSDVFSK
44.Heat shock protein 90kDa beta (Grp94), member 1 (HSP90B1)	22	KTFEINPR GLFDEYGSK IYFMAGSSR FAFQAEVNR LGVIEDHSNR EAESSPFVER SILFVPTSAPR KEAESSPFVER DISTNYYASQK EFEPLLNWMK GVVDSDDLPLNVSR NLLHVTDTGVGMTR IADDKYNDTFWK VFITDDFHDMMPK RVFITDDFHDMMPK EEEAIQLDGLNASQIR EAVEKEFEPLLNWMK FQSSHHPTDITSLDQYVER ESDDPMAYIHFTAEGEVTFK TVWDWELMNDIKPIWQRPSK TDDEVVQREEEAIQLDGLNASQIR LTESPCALVASQYGWSGNMERIMK
45.Heat shock 27kDa protein 1 (HSPB1)	11	DWYPHSR GPSWDPFR RVPFSLLR QDEHGYISR LFDQAFGLPR DGVVEITGKHEER HEERQDEHGYISR VSLDVNHFAPDELTVK GPSWDPFRDWYPHSR LATQSNEITIPVTFESR

		KYTLPPGVDPTQVSSSLSPEGTLTVEAPMPK
46.Heterogeneous nuclear ribonucleoprotein C (C1/C2) (HNRNPC)	7	VPPPPPIAR GDDQLELIK YGKIVGCSVHK GFAFVQYVNER QKVDSLLENLEK MIAGQVLDINLAAEPK SAAEMYGSSFDLDYDFQR
47.Tropomyosin 4 (TPM4)	14	HIAEEADR AEGDVAALNR HIAEEADRK MEIQEMQLK LVILEGELER IQLVEEELDR EKAEGDVAALNR KLVILEGELER RIQLVEEELDR IQALQQQADEAEDR LVILEGELERAEER IQLVEEELDRAQER KIQALQQQADEAEDREENVGLHQTLDQTLNE LNCI
48.Actin, beta (ACTB)	12	AGFAGDDAPR GYSFTTTAER HQGVMVGMGQK AVFPSIVGRPR IWHHTFYNELR SYELPDGQVITIGNER YPIEHGIVTNWDDMEK VAPEEHPVLLTEAPLNPK DLYANTVLSGGTTMYPGIADR KDLYANTVLSGGTTMYPGIADR DLYANTVLSGGTTMYPGIADRMQK TTGIVMDSGDGVTHTVPIYEGYALPHAILR
49. Keratin 7 (KRT7)	25	NEISEMNR LDADPSLQR LQAEIDNIK WTLLQEQK KLLEGEESR FETLQAQAGK YEDEINRR SAYGGPVGAGIR EYQELMSVK NKYEDEINR QEELEAALQR AEAEAWYQTK TAAENEFVVLK GQLEALQVDGGR VRQEESEQIK SLDLDGIIAEVK LALDIEIATYR TAAENEFVVLKK AKQEELEAALQR QEELEAALQRAK VDALNDEINFLR LPDIFEAQIAGLR TMQDVVEDFKNK EVTINQSLLAPLR TLNETELTELQSQISDTSVVLSMDNSR
50.SEC13 homolog (S. cerevisiae) (SEC13)	4	LEAHSDWVR NGGQILIADLR LWKEEEDGQWK EEQKLEAHSDWVR
51.Annexin A1 (ANXA1)	15	SEIDMNDIK DITSDTSGDFR TPAQFDADELR GVDEATIIDILTK GVDEATIIDILTKR GTDVNVFNTILTTR

		ALTGHLEEVVLALLK KGTDVNVFNTILTTR GLGTDEDTLIEILASR SEDFGVNEDLADSDAR AAYLQETGKPLDETLK AAYLQETGKPLDETLKK GDRSEDFGVNEDLADSDAR QAWFIENEEQEYVQTVK GGPGSAVSPYPTFNPSSDVAALHK
52.Stathmin 1/ oncoprotein 18 (STMN1)	10	KLEAAEER DKHIEEVR KSHEAEVLK DLSLEEIQK EHEKEVLQK AIEENNNFSK DLSLEEIQKK ESVPEFPLSPPK ASGQAFELILSPR MASSDIQVKELEK SKESVPEFPLSPPK RASGQAFELILSPR
53.Lectin, galactoside-binding, soluble, 3 (LGALS3)	9	SDGIYIINLK FAAATGATPIAGR KSDGIYIINLK GAHSVGLMWWMLAR FTPGTFTNQIQAAFR AIVAIENPADVSVISSR EHPWEVMPDLYFYR FTPGTFTNQIQAAFREPR FLAAGTHLGGTNLDFQMEQYIYK
54.Non-metastatic cells 1, protein (NM23A) expressed in (NME1)	9	GLVGEIIKR GDFCIQVGR DRPFFAGLVK FMQASEDLLK TFIAIKPDGVQR NIIHGSDSVESAEK VMLGETNPADSKPGTIR FMQASEDLLKEHYVDLK YMHSGPVVAMVWEGLNVVK
55.Eukaryotic translation initiation factor 5 (EIF5A)	8	VHLVGIDIFTGK EDLRLPEGDLGK VHLVGIDIFTGKK LPEGDLGKEIEQK KYEDICPSTHNMDVPNIK NDFQLIGIQDGYLSLLQDSGEVR RNDFQLIGIQDGYLSLLQDSGEVR MADDLDFETGDAGASATFPMQCSALR
56.Chloride intracellular channel 1 (CLIC1)	8	YLSNAYAR IGNCPFSQR GFTIPEAFR LFMVLWLK GVTFNVTTVDTK LAALNPESNTAGLDIFAK EEFASTCPDDEEIELAYE VLDNYLTSPLPEEVDETSAEDEGVSQR
57.Vimentin (VIM)	7	LQEEMLQR QDVDNASLAR GTVSTNPAVKEGK EEAENTLQSFR NLQEAEEWYKSK VESLQEEIAFLKK KVESLQEEIAFLK
58.Tumor protein, translationally-controlled 1 (TPT1)	6	YIKDYMK LEEQRPER GKLEEQRPER VKPFMTGAAEQIK EDGVTPYMIFFK DLISHDEMFSDIYK