Supplemental Table 2. Database Search Results of spectra acquired on the prOTOF MALDI O-TOF Mass Spectrometry using TOFworks ™, an integrated workflow-based software platform. Monoisotopic peptide peak lists were generated in the mass range *m*/*z* 500–5000, with a signal to noise ratio threshold of 3.0, and peak resolution threshold of 10,000 using peak picking algorithm of the TOFworks software version 1.0.1.797. Trypsin autolysis fragment peaks and peaks from the matrix were not excluded unless and otherwise stated. The resulting peptide mass lists were used to search the sequences present in an indexed rat subset database (36,274 sequences), created from NCBInr 3,893,302 sequences (release 07/04/06) and stored locally, by running ProFound^{TM} search engine V 2003.6.2.1 (Genomic Solutions, Ann Arbor, MI). The searching criteria used were (1) Protein molecular weight search window of 10 to 300 KDa; (2) protein expectation P<0.001; (3) minimum sequence coverage of 10%; (4) peptide mass tolerance limits of 30 parts per million (ppm); (5) complete cysteine modification by iodoacetamide (57 Da) and partial methionine oxidation (M)(16 Da). A positive identification was accepted when a minimum of 6 peptide masses matched a particular protein with a mass error tolerance of ≤ 30 ppm, and sequence coverage ≥ 10%, and low expectation value (P < 0.001).

Pos.	Gene name	MALDI-TOF MS								
		Accession number	Expect.	% seq. cove.	No. matched peak	No. unmatched peak	Measured mass (M + H)	Match error (ppm)	Peptide Sequence	Modification
8	*apoE*	P02650	1.30E-07	36	17	10	899.431	-2	FWDYLR	
							968.542	-2	LGPLVEQGR	
							1019.477	2	LGADMEDLR	
							1035.470	0	LGADM#EDLR	1 Oxidation (M)
							1075.583	1	LQAEIFQAR	
							1162.546	2	MEEQTQQIR	
							1178.541	2	M#EEQTQQIR	1 Oxidation (M)
							1228.633	2	GRLEEVGNQAR	
							1239.674	2	TANLGAGAAQPLR	
							1377.672	1	SKMEEQTQQIR	
							1393.666	0	SKM#EEQTQQIR	1 Oxidation (M)
							1510.803	2	TANLGAGAAQPLRDR	
							1599.780	1	ELEEQLGPVAEETR	
							1720.812	2	NEVNTMLGQSTEELR	
							1736.806	1	NEVNTM#LGQSTEELR	1 Oxidation (M)
							1817.876	2	DRLEEVREQMEEVR	
							1833.873	3	DRLEEVREQM#EEVR	1 Oxidation (M)
9	*Bpgm*	Q6P6G4	5.00E-05	42			955.420	-10	HGEGQWNK	
							1068.461	-7	FC*SWVDQK	Carbamidomethylation (C)
							1103.518	-6	LNSDGLEEAR	
							1113.599	-9	HYGALIGLNR	

							1175.609	-9	SESLKDVLER	
							1241.644	-6	TVLISAHGNSSR	
							1283.601	-6	MALNHGEEQVR	
							1299.596	-5	M#ALNHGEEQVR	1 Oxidation (M)
							1311.655	-8	VCDVPLDQLPR	Carbamidomethylation (C)
							1354.611	-4	HGEGQWNKENR	
							1602.816	-4	YKVCDVPLDQLPR	Carbamidomethylation (C)
							1898.985	-4	ALNFEFDLVFTSILNR	
							2788.292	0	SYNVTPPPIEESHPFFHEIYNDR	
							2944.392	0	SYNVTPPPIEESHPFFHEIYNDRR	
							2944.392		RSYNVTPPPIEESHPFFHEIYNDR	
13	*Car1*	gi|27689031|	4.00E-07	51	9	15	931.417	-2	NGPDQWSK	
							935.448	-2	GGPLADSYR	
							1026.497	-5	YSSAAEAISK	
							1037.567	1	VGPANPNLQK	
							1570.836	1	ESISLSPEQLAQLR	
							1640.811	1	YSGELHLVHWNSAK	
							1900.968	0	HDSSLKPVSVSYNPATAK	
							2593.399	-1	GLLSSAEGEPAVPVLSNHRPPQPLK	
							2721.214	2	LTQFHFHWGNSNDHGSEHTVDGAK	
24	*Fetub*	Q9QX79	5.83E-04	17	8	17	837.465	18	SPGVPPQR	
							1000.448	16	SPEC*PGPEK	
							1082.553	29	DGYMLTLNR	
							1098.534	16	DGYM#LTLNR	1 Oxidation (M)
							1115.586	14	AM#FHVNKPR	1 Oxidation (M)
							1381.677	20	IFYETVHGQC*K	
							1822.878	23	GSIQHLPEQEEPEDSK	
							2007.995	21	GSIQHLPEQEEPEDSKGK	
25	*Fga*	P06399	1.21E-06	19	13	13	998.481	-5	NSLFDFQK	
							1055.604	-9	AQQIQVLQK	
							1215.642	-7	GDKELLIGNEK	
							1298.622	-6	SQLQEGPPEWK	
							1374.681	-6	QMRMELERPGK	
							1390.669	-12	QM#RMELERPGK	1 Oxidation (M)
							1438.630	-3	MHPELGSFYDSR	
							1454.623	-4	M#HPELGSFYDSR	1 Oxidation (M)
							1464.709	-11	EINLKDYEGQQK	

							1492.690	-3	GLIDEANQDFTNR	
							1717.689	-6	MADEAASEAHQEGDTR	
							1733.690	-3	M#ADEAASEAHQEGDTR	1 Oxidation (M)
							1767.805	-11	M#KGLIDEANQDFTNR	1 Oxidation (M)
27	*Fgg*	P02680	1.911E-04	30	12	22	759.430	-18	IIPFNR	
							1050.506	-8	VGPESDKYR	
							1162.506	-5	TSTADYAMFR	
							1178.503	-3	TSTADYAM#FR	1 Oxidation (M)
							1244.599	-7	YLQDIYTSNK	
							1531.796	-5	YEALLLTHESSIR	
							1551.715	-6	LSIGDGQQHHMGGSK	
							1567.714	-4	LSIGDGQQHHM#GGSK	1 Oxidation (M)
							2207.029	-1	EGFGHLSPTGTTEFWLGNEK	
							2545.256	-4	AIQVYYNPDQPPKPGMIEGATQK	
							2561.256	-1	AIQVYYNPDQPPKPGM#IEGATQK	1 Oxidation (M)
							2891.206	0	LTYAYFIGGDAGDAFDGYDFGDDPS DK	
30	*Gda*	gi|753304 2|	3.07E-08	28	12	5	998.487	1	FLYLGDDR	
							1058.623	-5	TPQLALIFR	
							1107.556	-4	NIEEVYVGGK	
							1371.752	1	LATLGGSQALGLDR	
							1436.717	-1	IVFLEESSQQEK	
							1544.717	1	FQSTDVAEEVYTR	
							1700.820	2	RFQSTDVAEEVYTR	
							1814.885	1	NYTDVYDKNNLLTNK	
							2087.043	3	FLYLGDDRNIEEVYVGGK	
							2147.107	1	EIGNFEVGKDFDALLINPR	
							2511.248	4	THDLYIQSHISENREEIEAVK	
34	*Hbb*	P02091	6.16E-07	84	14	14	912.466	-5	VHLTDAEK	
							1090.584	3	VINAFNDGLK	
							1122.656	1	VVAGVASALAHK	
							1126.558	2	LHVDPENFR	
							1218.676	0	KVINAFNDGLK	
							1274.716	-2	LLVVYPWTQR	
							1298.625	-1	VNPDDVGGEALGR	
							1383.626	-2	EFSPC*AQAAFQK	Carbamidomethy lation (C)
							1514.697	-1	GTFAHLSELHC*DK	Carbamidomethy lation (C)

							1714.013	1	LLGNMIVIVLGHHLGK	
							1730.008	1	LLGNM#IVIVLGHHLGK	1 Oxidation (M)
							2006.906	-1	YFDSFGDLSSASAIMGNPK	
							2022.904	1	YFDSFGDLSSASAIM#GNPK	1 Oxidation (M)
							2622.242	0	GTFAHLSELHC*DKLHVDPENFR	
37	*Hpx*	P20059	4.72E-10	26	14	8	734.383	10	YPLDAR	
							746.398	1	ELISER	
							793.396	5	GEFVWR	
							795.428	0	LYVTSGR	
							1079.454	0	YYC*FQGNK	Carbamidomethylation (C)
							1105.553	-3	GGNNLVSGYPK	
							1114.485	-5	DYFISC*PGR	Carbamidomethylation (C)
							1128.504	-13	WFWDFATR	
							1145.608	-17	VWVYPPEKK	
							1212.625	-3	FNPVTGEVPPR	
							1347.693	-11	GPDSVFLIKEDK	
							1502.665	-5	GATYAFSGSHYWR	
							1517.767	-16	EDKVWVYPPEKK	
							1727.768	-2	GEC*QSEGVLFFQGNR	Carbamidomethylation (C)
41	*Lmna*	P48679	1.43E-05	17	11	8	919.425	-5	SSFSQHAR	
							974.468	-3	LLEGEEER	
							1023.499	-4	NIYSEELR	
							1089.546	0	SLETENAGLR	
							1165.539	-2	AAYEAELGDAR	
							1187.629	-1	LRDLEDSLAR	
							1293.631	-3	AAYEAELGDARK	
							1502.713	-1	AQHEDQVEQYKK	
							1605.799	-1	LLAEKEREMAEMR	
							1629.797	-2	LQEKEDLQELNDR	
							1752.853	-1	NSNLVGAAHEELQQSR	
49	Pzp	Q63041	1.05E-04	12	13	18	858.422	-7	YGAATFTK	
							870.526	-8	LLLQEVR	
							1101.55	-2	LQDQSNIQR	
							1160.620	-3	VNTLPLNFDK	
							1204.647	-2	LADLPGNYITK	
							1229.649	-2	KLQDQSNIQR	
							1404.777	-5	M#VSGFIPVKPSVK	1 Oxidation (M)

							1672.878	-2	TEVNTNHVLIYIEK	
							1791.903	-3	YNILPEAEGEAPFTLK	
							2357.155	-2	EVSVTIESSGTVSGTLHVNNGNR	
							2403.174	-3	QQNSHGGFSSTQDTVVALQALSK	
							2807.307	-17	YFPETWIWDMVPLDLSGDGELPVK	
							3226.294	-4	VYDYYETDEFAIEEYSAPFSSDSEQG NA	
50	*Serpina1*	P17475	6.63E-06	29	11	26	763.344	-9	VPMMNR	1 Oxidation (M)
							916.507	5	AVLTLDER	
							938.530	3	SAILYFPK	
							946.421	2	DADFHVDK	
							979.505	3	VINDYVEK	
							1153.589	10	RPFNPEHTR	
							1228.633	5	MQHLEQTLTK	
							1244.628	5	M#QHLEQTLTK	1 Oxidation (M)
							1918.941	5	VFNNDADLSGITEDAPLK	
							2168.129	5	GTEAAGATVVEAVPM#SLPPQVK	1 Oxidation (M)
							2287.028	4	NNYHSEAFSVNFADSEEAKK	
52	*Serpinf1*	Q80ZA3	2.77E-06	37	11	24	836.415	-18	SYGTRPR	
							977.513	-9	SSFVAPLEK	
							1397.678	-6	LQSLFESPDFSK	
							1489.677	-5	TTLQDFHLDEDR	
							1559.770	-4	LAAAVSNFGYDLYR	
							1617.774	-3	KTTLQDFHLDEDR	
							1940.920	-18	LKLSYEGDVTNSLQDMK	
							2040.993	-3	ALYYDLINNPDIHSTYK	
							2375.075	-3	AAFEWNEEGAGTSSNPDLQPVR	
							2883.564	10	STREM#PSALSILLLGVAYFKGQWAT K	1 Oxidation (M)
							2883.564	-2	SGAVSTGNILLSPLSVATALSALSLG AEQR	
53	*sid23p*	gi|277034 60 |	2.31E-04	26	6	17	816.387	-1	IFYDMK	
							832.380	-4	IFYDM#K	1 Oxidation (M)
							1251.671	2	AVIFC*LSADKK	Carbamidomethy lation (C)
							1251.671	2	KAVIFC*LSADK	Carbamidomethy lation (C)
							1307.610	1	YALYDASFETK	
							1504.703	5	HFVGMLPEKDC*R	Carbamidomethy

										lation (C)
56	*Tf*	P12346	1.72E-09	22	15	12	915.466	5	VAQEHFGK	
							949.557	7	IPSHAVVAR	
							1186.549	13	WC*ALSHQER	Carbamidomethylation (C)
							1348.675	-1	GTDFQLNQLQGK	
							1348.675	25	ASDSSINWNNLK	
							1359.605	13	WC*AVSEHENTK	Carbamidomethylation (C)
							1392.762	4	LYLGHSYVTAIR	
							1423.757	5	SKDFQLFGSPLGK	
							1476.784	8	KGTDFQLNQLQGK	
							1476.784	8	GTDFQLNQLQGKK	
							1558.748	9	EGVC*PEASIDSAPVK	Carbamidomethylation (C)
							1589.700	16	GDKDC*TGNFC*LFR	Carbamidomethylation (C)
							1652.724	16	FDEFFSQGC*APGYK	Carbamidomethylation (C)
							1656.780	12	KPVDQYEDC*YLAR	
							1881.887	10	ADRDQYELLC*LDNTR	Carbamidomethylation (C)