Supplemental Methods

Mice. All animal procedures were performed based on the "Guide for the Care and Use of Laboratory Animals" (Eighth Edition) and were approved by the Institutional Animal Care and Use Committees at the University of Texas Health Science Center at San Antonio and the University of Mississippi Medical Center. In this study, 3- to 6-month old C57BL/6J wild type (WT) male mice (n=116; The Jackson Laboratory) were used. MMP-9 null mice (n=10) were obtained from our on-site breeding colony and are on the C57BL/6J background strain.[1] All mice were kept in the same room in a light controlled environment with a 12:12 hour light-dark cycle and free access to standard mouse chow and water. MI mice were subjected to permanent occlusion of the left coronary artery as previously described.[2-4] A portion of the mice and tissue used for this study were previously evaluated for MMP-12 and sham effects.[3, 4]

The MMP-9i dose used was calculated based on the results of *in vitro* studies.[5] The molecular weight of the MMP-9i is 12.4 kDa. A delivery of 0.030 μg of MMP-9i per g corresponds to 0.0024 nmol per g. Mice have ~58.5 μL of blood per g of body weight. Thus, the concentration of MMP-9i delivered per day for a 25 g mouse would be 6×10^{-11} mol/1.46×10^{-3} L = 41 nM. This concentration is considerably higher than the MMP-9i K_i for MMP-9. Since a pump is being utilized, and delivery is to the heart, one can assume a highly efficient delivery. Triple-helical peptides are stable *in vivo*,[6, 7] as are phosphinic peptides,[8] and phosphinates have slow on-off rates.[9] While the mouse will excrete inhibitor during the course of the day, the pump is used continuously for 7 days.

At 3 h post-MI, infarction was confirmed by echocardiography and electrocardiography, and osmotic pumps with saline or MMP-9 inhibitor diluted in saline (MMP-9i; 0.03 µg/kg/day; Alzet 2001D for D1 or 1007D for D7) were inserted subcutaneously. The alzet pump model 2001D has a pumping rate of 8 µl/hour for a duration of 1 day at 37°C. The alzet pump model 1007D

has a pumping rate of 0.5 µl/hour for the duration of 7 days at 37°C. Mice were sacrificed at days (D) 1 or 7 post-MI (n=6-12 surviving mice/ group for each assay). D0 mice (n=6-12 for each assay) served as no MI controls.

Echocardiography. Transthoracic echocardiography was performed using a Vevo 2100™ system (VisualSonics, Toronto, Ontario, Canada) with a 30 MHz image transducer as previously described.[4] Mice were anesthetized with 0.5–2.0% isoflurane in an oxygen mix. Electrocardiogram, heart rate, and body temperature were monitored throughout the imaging procedure. Measurements were taken from the left ventricle (LV) parasternal long axis (B-mode) and short axis (M-mode) views. Three images from consecutive cardiac cycles were measured and averaged, and images were acquired at heart rates >400 bpm for physiological relevance.

Survival analysis and autopsy. The mice were checked daily for survival, and autopsy was performed for all mice that were found dead. At autopsy, cardiac rupture was confirmed if the rupture site was visible on the left ventricle (LV) or a blood clot was observed in the thoracic cavity.

Tissue harvest and infarct area evaluation. At sacrifice, mice were anesthetized with 0.5-2.0% isoflurane in an oxygen mix. Heparin was administered (i.p., 4 U/g body weight) and 5 min later, blood was collected from the common carotid artery. The heparinized blood was centrifuged, and proteinase inhibitor cocktail (Roche, Indianapolis, IN) was added to the collected plasma to a final concentration of 1x. The plasma was aliquoted and snap frozen at -80°C.

The hearts were flushed with cardioplegic solution (69 mM NaCl, 12 mM NaHCO3, 11 mM glucose, 30 mM 2,3-butanedione monoxime, 10 mM EGTA, 0.001 mM Nifedipine, and 50 mM KCl) to arrest the heart in diastole. The hearts were excised, and the LV and right ventricle (RV) were separated and weighed individually. The lung weights (wet and dry) and tibia lengths were measured. The LV was sliced into apex, middle, and base sections and stained with 1% 2, 3, 5-triphenyltetrazolium chloride (TTC, Sigma-Aldrich, St. Louis, MO) and photographed for

evaluation of the infarct area using Photoshop (Adobe Systems Inc., San Jose, CA). The infarct

area is presented as percentage of infarct area to total LV area. The LV infarct region (LVI) was

separated, snap frozen, and stored at -80°C for real time RT^2-PCR analysis (n=6/ group) or

immunoblotting analysis (n=6/ group). The LV middle section was fixed in 10% zinc formalin

(Fisher Scientific, Pittsburgh, PA), paraffin-embedded, and sectioned for histological

examination (n=12/group).

MMP-9 activity assay. A standard colorimetric kit (EMD Millipore, Darmstadt, Germany; CBA

003) was used per manufacturer instructions to measure MMP-9 activity in D1 plasma samples

from saline and MMP-9i treated mice (n=12/group). The assay was performed in triplicate.

Protein extraction and immunoblotting. The LV was homogenized in 1x phosphate-buffered

saline (PBS) with 1x proteinase inhibitor cocktail (Roche; 16 µL for every mg of wet LV) using

the Power Gen 1000 Homogenizer (Fisher Scientific, Pittsburgh, PA). The homogenate was

centrifuged at 4700 rpm for 15 min. The supernatant (soluble protein fraction) was extracted and

stored at -80°C. The remaining pellet (insoluble protein fraction) was homogenized in Protein

Extraction Reagent 4 (Sigma) with 1x protease inhibitor. The insoluble protein fraction was

stored at -80°C. Protein levels were quantified by Bradford assay (Bio-Rad, Hercules, CA). Total

protein (10 µg) from each fraction (soluble and insoluble) was run on 4–12% criterion Bis–Tris

gels (Bio-Rad, Hercules, CA), transferred onto nitrocellulose membranes (Bio-Rad), and stained

with MemCode™ Reversible Protein Stain Kit (Thermo Scientific, Waltham, MA) to verify

loading accuracy. Membranes were blocked with 5% non-fat milk (Bio-Rad) and incubated

overnight at 4°C with primary antibodies against collagen 1 (Cedarlane 558739, 1:2000), MMP-

2 (Cell signaling 13132, 1:1000), fibronectin (Millipore AB1954, 1:5000), caspase 3 (Cell

signaling 9662, 1:1000), CD18 (Abcam ab157146, 1:1000), and CD36 (Novus Biologicals

NB400; 1:1000) followed by incubation at room temperature with appropriate secondary

antibodies. Signal was detected using Amersham ECL Substrate (GE Healthcare, Waukesha,

WI). Protein levels of individual samples were quantified by densitometry using the IQ-TL image

analysis software (GE Healthcare, Waukesha, WI). Densitometric units were normalized to the densitometry of the total protein stain for the entire lane.

Gelatin zymography. Samples (25 μg total soluble protein) were loaded into non-denaturing 10% polyacrylamide gels containing 0.1% gelatin, electrophoresed, renatured, and developed as described previously.[10] To quantify activity, gel images were acquired and inverted, and densitometry was measured using the IQ-TL image analysis software (GE Healthcare, Waukesha, WI).

Real Time RT²-PCR. RNA extraction was performed using TRIzol® Reagent (Invitrogen Life Technologies, Grand Island, NY, USA) according to manufacturer instructions. RNA levels were quantified using the NanoDrop ND-1000 Spectrophotometer (Thermo Scientific, Waltham, MA, USA). Reverse transcription of RNA (0.4 µg) was performed using the RT² First Strand Kit (Qiagen, Valencia, CA, USA). Real-time RT²-PCR gene array for inflammatory cytokines and receptors (Qiagen) and for extracellular matrix and adhesion molecules (Qiagen) were performed to quantify gene expression levels. The gene levels were normalized to the reference gene hypoxanthine guanine phosphoribosyl transferase 1 (*Hprt1*), and the data reported as $2^{-\Delta Ct}$ values X 100 for extracellular matrix genes and $2^{-\Delta Ct}$ values X 1000 for inflammatory genes. The experiments were performed according to the MIQE guidelines with one exception. Hprt1, was the only reference gene that showed no change in expression after MI (GusB, Hsp90ab1, Actb and Gapdh were all significantly changed post-MI).[11]

Gene names shown in Table 2, in alphabetical order, are: Adamts - A disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, Cdh – Cadherin, Cd44 – Cd44 antigen, Cntn1 – Contactin 1, Col – Collagen, Ctgf – Connective tissue growth factor, Ctnna - Catenin (cadherin associated protein), alpha1, Ctnnb1 – Catenin beta 1, Ecm – Extracellular matrix protein, Emilin1 - Elastin microfibril interfacer 1, Fbln1 – Fibulin 1, Fn1 – Fibronectin 1, Hapln I – Hylauronan and proteoglycan link protein I, Hc - Hemolytic complement, Icam1 - Intercellular adhesion molecule 1, Itga – Integrin alpha, Itgae – Integrin alpha E,

epithelial-associated, Itgam – Integrin alpha M, Itgav - Integrin alpha V, Itgax –Integrin alpha X, Itgb – Integrin beta, Lama – Laminin, Lamb – Laminin beta, Lamc – Laminin gamma, Ncam – Neural cell adhesion molecule, Pecam1 - Platelet/endothelial cell adhesion molecule 1, Postn – Periostin, Sele – Selectin, endothelial cell, Sell – Selectin lymphocyte, Selp – Selectin platelet, Sgce – Sarcoglycan epsilon, Sparc - Secreted acidic cysteine rich glycoprotein, Spock1 - Sparc/osteonectin, cwcv and kazal-like domains proteoglycan 1, Spp1 – Osteopontin, Syt1 - Synaptotagmin I, Tgfbi – Transforming growth factor, beta induced, Thbs - Thrombospondin, Timp - Tissue inhibitor of metalloproteinase, Tnc – Tenascin C, Vcam1 – Vascular cell adhesion molecule 1, Vcan – Versecan, and Vtn - Vitronectin.

Gene names shown in Table 3, in alphabetical order, are: Abcf1 – ATP-binding cassette, sub-family F (GCN20) member 1, Bcl – B-cell leukemia/lymphoma 6, C3 – Complement component 3, Casp1 – Caspase 1, Ccl – Chemokine (C-C) ligand, Ccr – Chemokine (C-C) receptor, Cd40lg – Cd40 ligand, Cx3cl – Chemokine (C-X3-C motif) ligand 1, Cxcl – Chemokine (C-X-C) ligand, Cxcr – Chemokine (C-X-C motif) receptor 3, Il – Interleukin, Il10rb – Interleukin 10 receptor beta, Il1f - Interleukin 1 family, member, Il1r – Interleukin 1 receptor type I, Il1r2 – Interleukin 1 receptor type I, Il2rb – Interleukin 2 receptor beta chain, Il2rg – Interleukin 2 receptor gamma chain, Il6ra - Interleukin 6 receptor, alpha, Il6st – Interleukin 6 signal transducer, Il8rb – Interleukin 8 receptor, beta, Itgam – Integrin alpha M, Itgb – Integrin beta 2, Lta – Lymphotoxin, Mif – Macrophage migration inhibitory factor, Pf4 – Platelet factor 4, Scye1 – Small inducible cytokine subfamily E member 1, Spp1 – Osteopontin, Tgfb – Transforming growth factor beta, Tnf – Tumor necrosis factor, Tnfrsf1 - Tumor necrosis factor receptor superfamily, member 1, Tollip – Toll interacting protein, and Xcr1 – Chemokine (C motif) receptor 1.

Immunohistochemistry. The middle section of the LV was paraffin-embedded and sectioned at 5 μm for immunohistochemical staining as described previously.[12] Heat mediated antigen retrieval (Target retrieval solution, Dako North America, Inc., Carpinteria, CA, USA) was

performed to expose antigen epitopes. Sections were blocked with rabbit blocking serum of Vectastain elite ABC Kit (Vector Laboratories, Marion, IA, USA). A primary antibody specific for macrophages (Mac-3, Cedarlane CL8943AP; 1:100), neutrophils (anti-neutrophil mouse monoclonal, Cedarlane CL8993AP; 1:100), or cleaved caspase 3 (Cell signaling 9661, 1:100) was used at 4°C overnight. Later, the sections were incubated with the respective secondary antibodies. Positive staining was visualized by HistoMark Black (KPL 54-75-00), and eosin was used as a counterstain. Picrosirius red (PSR) staining was used to examine collagen deposition. A terminal deoxynucleotidyl transferase dUTP nick end labeling (TUNEL; Roche Diagnostics; 11684809910) kit was used to detect apoptosis per manufacturer instructions. Images were captured at 40X magnification with Image-Pro software (Media Cybernetics, Bethesda, MD, USA) and quantification was reported as the percentage of positively stained area to total area.

Plasma proteomics. Plasma samples from unoperated WT and MMP-9 null male mice were used (n=10/group).

Trypsin digestion. Plasma samples were collected from unoperated controls (D0) and denatured and reduced by adding 8 M urea and 12 mM Tris (2-carboxyethyl) phosphine hydrochloride (TCEP) in 1 M ammonium bicarbonate and incubating at 37°C for 1 h. Alkylation was performed with 16 mM iodoacetamide at room temperature in the dark for 30 min. The samples were diluted 5-fold with HPLC water prior to the addition of trypsin (Promega, Madison, WI) at a ratio of 1:50 (w/w, enzyme:protein). The samples were digested at 37°C overnight with gentle shaking followed by centrifugation to remove precipitate. Peptides were cleaned by Sep-Pak Vac C18 cartridge (Waters, Milford, MA). Peptide concentration was determined by BCA assay (Thermo Fisher Scientific, Rochford, IL).

N-Linked glycopeptide capture. N-linked glycopeptides were isolated from the tryptic peptides using the solid phase extraction of glycopeptides (SPEG) method.[13, 14] Briefly, peptides were oxidized with 10 mM sodium periodate (Bio-Rad, Hercules, CA) at room temperature for 1 h. Glycopeptides were covalently conjugated to a solid support via hydrazide

chemistry (Bio-Rad, Hercules, CA), with incubation at room temperature overnight. The efficiency of glycopeptide capture was evaluated previously by Zhou *et al*. and found to be 85% using this approach.[15] The hydrazide beads were washed with 1.5 M NaCl and HPLC water prior to release of formerly *N*-linked glycopeptides from solid support by PNGase F (New England Biolabs, Ipswich, MA) at 37°C overnight. The eluent was purified by Sep-Pak Vac C18 cartridge (Waters, Milford, MA) and resuspended in 20 μL of 0.4% Trifluoroacetic acid.

   Mass spectrometry analysis. For the RefSeq database search, the precursor mass tolerance and fragment mass tolerance were set at 15 ppm and 0.05 Da, respectively. Trypsin was specified as the protease. The fixed modification was set as carbamidomethylation (C), and other modifications were set as flexible modification as follows: deamidation (N) and oxidation (M). Full-tryptic end and two missed cleavage sites were allowed. A decoy version of the RefSeq mouse database was used to estimate peptide and protein false discovery rate. The average specificity of the glycopeptide isolation was ~92%, indicating that ~8% of the total identified peptides were non-glycopeptides. The non-glycosylated peptides were removed from the list.

   LC-MS quantification. Peptides were quantified by label-free relative quantification based on integrated peptide peak intensities using the SIEVE software, version 2.1 (Thermo Fisher, Waltham, MA, USA). Frame parameters were set at a retention time width of 2.5 min and an MZ width of 6 ppm, with intensity threshold of 10^6. The peak intensity was normalized to Total Ion Current (TIC) by SIEVE. A frame abundance ratio was calculated as the ratio of the average integrated intensity of the null samples to the average integrated intensity of the WT samples. Frames were identified by importing Proteome Discoverer searched files. The false discovery rate was calculated as the ratio of changed proteins in 8000 permutations of the null genotype against the WT genotype. The volcano plot was constructed using the Metaboanalyst 3.0 software program (www.metaboanalyst.ca/). Parameters for selection of important features were set with a fold change threshold of >1.3 and t-test threshold of p<0.05.

Statistical analyses. Data was collected in a blinded manner, and results are presented as mean±SEM. Survival rates were analyzed by Kaplan-Meier survival analysis and compared by the log-rank test. Rupture rates were analyzed by Fisher's exact test. Two group comparisons were analyzed by Students t-test. Multiple group comparisons were analyzed using one-way ANOVA, followed by the Student Newman-Keuls when the Bartlett's variation test was passed, or using the nonparametric Kruskal-Wallis test, followed by Dunn post-hoc test when the Bartlett's variation test did not pass. Statistical significance was set at $p < 0.05$. All analyses were performed using Prism 6.0 (GraphPad Software, La Jolla, CA).

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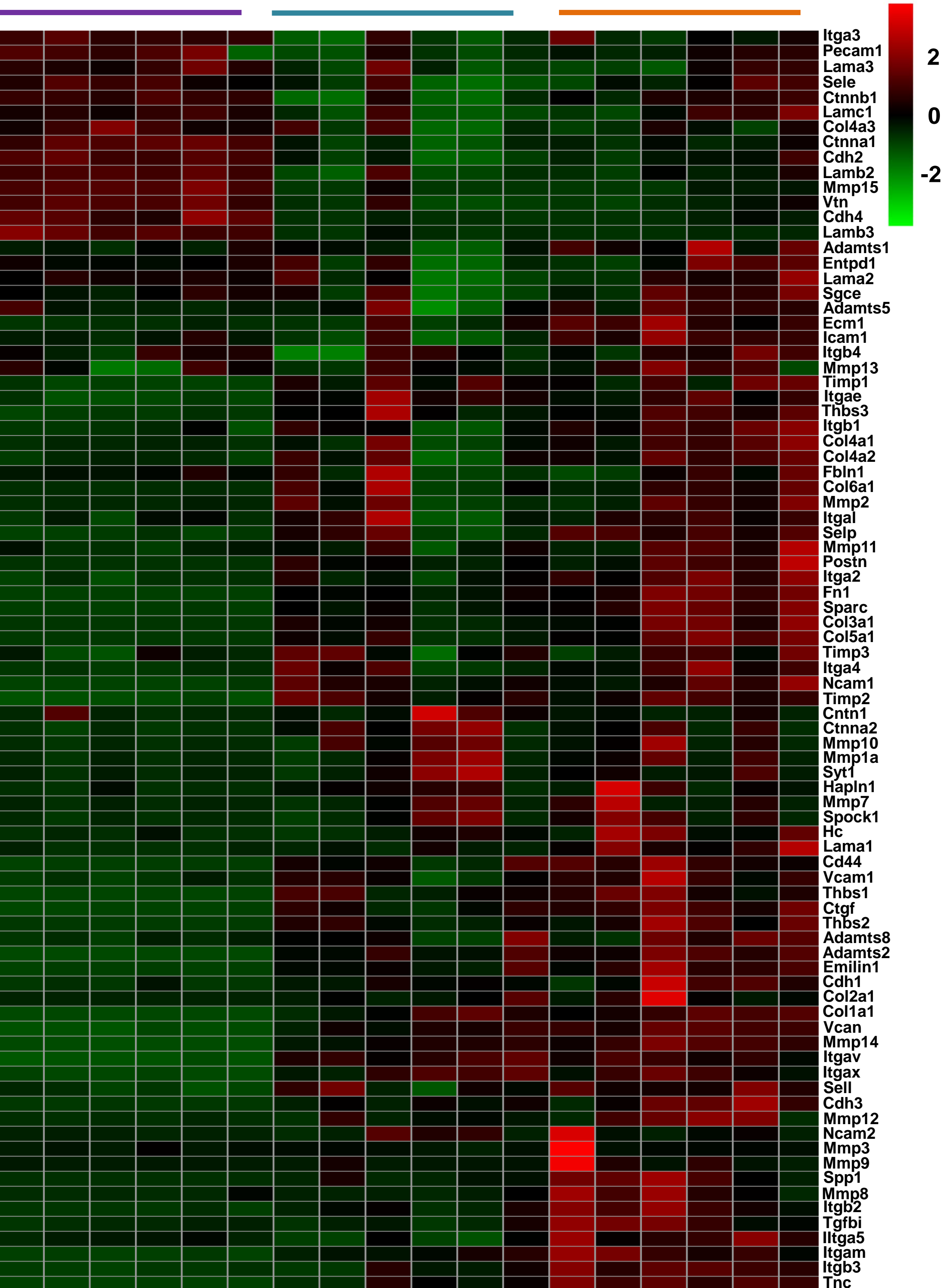
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Supplemental Figure 1

Supplemental Figure 2
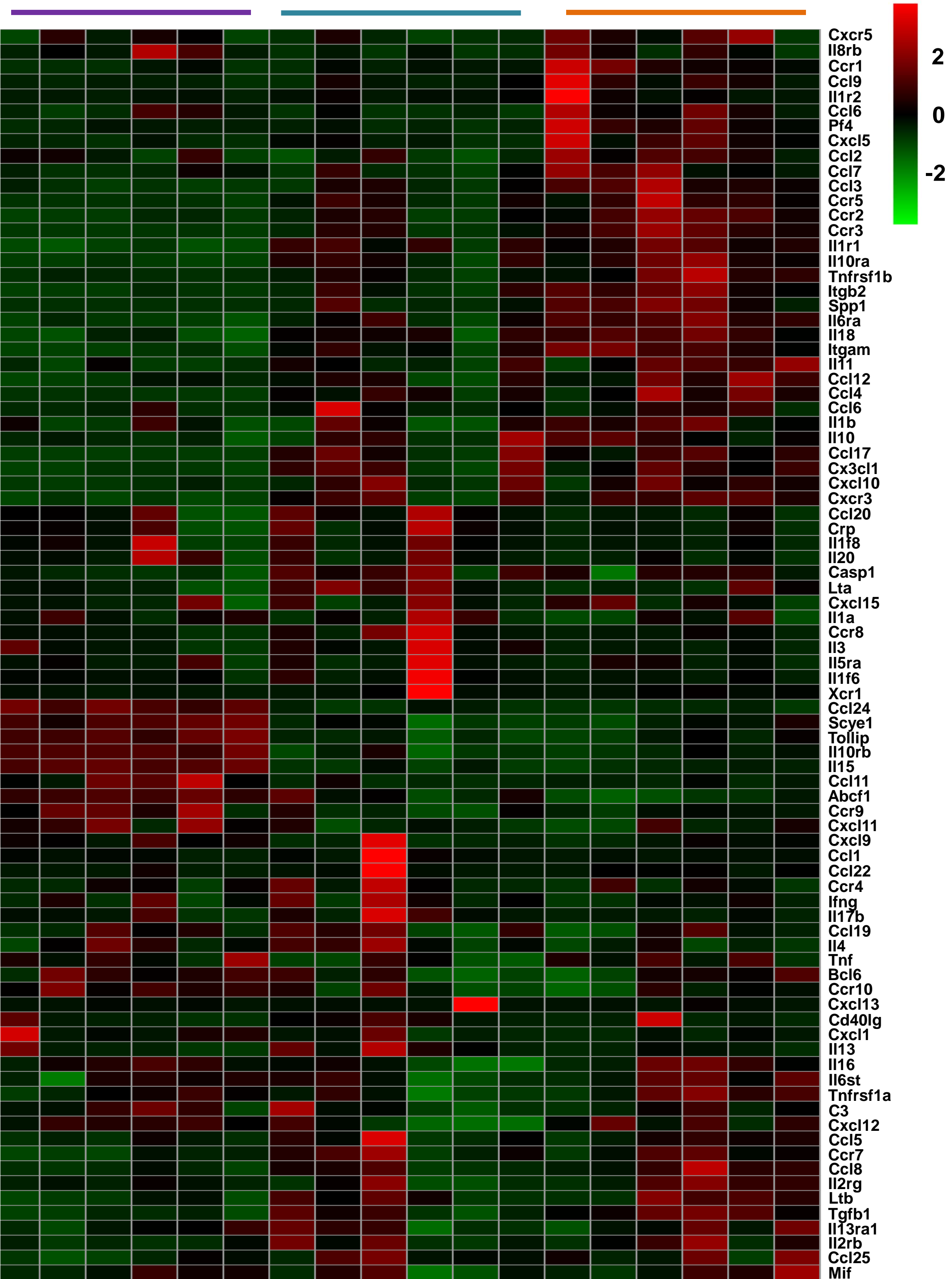
Supplemental Table S1. Proteins identified in wild type (WT) and MMP-9 null (Null) plasma, ranked by p value <0.05 (in blue) and fold- change >2 or <0.5 (dark blue). Of the 359 proteins identified, 34 were statisitcally different, of which 21 had at least 2-fold overexpression or 0.5-fold underexpression in the Null group. Values are peak intensities.

Accession #	Protein	PEPTIDE	Xcorr	MZ	% Coverage	MW [kDa]
170295832	extracellular matrix protein 1	QIPGLIQNMTIR	2.5	700.9	31.7%	62.8
294997253	histocompatibility 2, blastocyst	EQNYTCHVYHEGLPEPLTLR	3.5	600.8	19.6%	40.2
449083339	fibronectin	HEEGHMLNCTCFGQGR	5.2	650.6	22.5%	260.0
6755987	vitronectin	NISEGFSGIPDNVDAAFALPAHR	2.9	800.7	33.1%	54.8
226531069	inter alpha-trypsin inhibitor, heavy chain 4	VSGQMHMQNITFQTEASVAQQEK	3.9	870.4	33.3%	104.5
6755987	vitronectin	NISEGFSGIPDNVDAAFALPAHR	4.2	800.4	33.1%	54.8
160358829	hemopexin	NGTAHGNSTHPMHSR	3.4	541.2	54.1%	51.3
309262028	ig alpha chain C region	LSGKPTNVSVSVIMSEGDGICY	3.1	1165.5	14.3%	44.6
68131562	sulfhydryl oxidase 1 a	NGSVSRVPVLVESR	4.7	500.6	20.1%	82.7
309262028	ig alpha chain C region	QGDQYSCMVGHEALPMNFTQK	3.2	825.7	14.3%	44.6
57222278	major urinary protein 26	AFVENITVLENSLVFK	4.2	912.5	22.7%	21.2
21313152	microfibril-associated glycoprotein 4	VDLEDFENNTAYAK	3.4	815.4	11.3%	28.9
110347564	ceruloplasmin b	HYYIAAEEVIWNYAPSGTDIFTGENLTALESDSR	5.1	959.4	29.7%	121.1
261823995	serum paraoxonase/arylesterase 1	ITVVYAENGTVLQGTTVASVYKGK	3.1	833.8	22.3%	39.5
7305235	leukemia inhibitory factor receptor 1	NPLGQAQSAVVINVTER	5.1	599.7	28.2%	122.5
89994747	protocadherin beta 20	RAEYNITITASDMGTPR	1.9	949.0	3.6%	87.7
7657429	periostin 1	GVNETLLVNELK	3.3	665.4	18.1%	90.2
124286805	complement C1q subcomponent subunit A	VLTNQESPYQNHTGR	4.0	582.3	29.0%	26.0
157671921	ATPase, class I, type 8B, member 4	KLYNNTSWIENLCKK	2.0	928.5	9.7%	135.1
68131562	sulfhydryl oxidase 1 a	FFQAFTKNGSGATLPGAGANVQTLR	3.4	852.4	20.1%	82.7
168229262	serine (or cysteine) peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin)	KLLNDYVSNQTQGMIK	2.3	935.5	30.2%	47.3
7305235	leukemia inhibitory factor receptor 1	VPSNSTETVIESDQFQPGVR	5.1	1096.5	28.2%	122.5
31982712	carboxypeptidase B2	EVHFFVNASDVDSVK	5.3	847.4	25.1%	48.8
377837112	h-2 class I histocompatibility antigen	EKNYTCHVEHEGLPEPLTLR	2.6	789.4	22.2%	39.6
160333372	lumican	LHINYNNLTESVGPLPK	6.1	955.5	48.5%	38.2
148747546	serine protease inhibitor A3K	NLINDYVSNQTQGMIK	4.0	928.4	82.3%	46.6
7305235	leukemia inhibitory factor receptor 1	KVPSNSTETVIESDQFQPGVR	5.4	773.7	28.2%	122.5
46560582	epidermal growth factor receptor 1	DTLSINATNIK	3.3	595.8	23.1%	134.8
244791354	phosphatidylcholine-sterol acyltransferase	QSQPVHLLPMNETDHLNMVFSNK	4.0	679.1	21.5%	49.7
51172612	vitamin D-binding protein	ICQNLSK	2.1	432.2	20.4%	53.6
31981720	protein Z-dependent protease inhibitor	EGNFTSTFDKK	2.7	425.5	43.1%	51.8
110347406	complement factor I	FSHNGTCAAEGK	3.4	427.2	32.0%	67.2
6680856	corticosteroid-binding globulin	EEDFYVNETSTVK	3.1	781.4	42.8%	44.7
6754164	complement C5	AFNECCTIANK	3.2	664.8	25.2%	188.8
6755112	phospholipid transfer protein	VSNVSCEASVSK	3.6	634.3	23.7%	54.4
449083339	fibronectin	LDAPTNLQFVNETDRTVLVTWTPPR	4.7	962.5	22.5%	260.0
160358825	beta-2-glycoprotein 1	DYRPSAGNNSLYQDTVVFK	5.6	726.0	51.0%	38.6
157057194	calcium channel, voltage-dependent, alpha 1I	QDLNASGLCVNWNR	1.7	824.3	4.1%	242.7
8850219	haptoglobin	CVVHYENSTVPEK	4.8	521.6	59.9%	38.7
8850219	haptoglobin	CVVHYENSTVPEKK	4.5	564.3	59.9%	38.7
8850219	haptoglobin	NLFLNHSETASAK	4.2	478.2	59.9%	38.7
109627652	complement factor H	LTEFTHNSTMDYK	3.6	802.4	27.2%	141.2
100815972	gamma-glutamyl hydrolase	LPLNFTEGAR	2.5	559.8	26.2%	35.4
6680856	corticosteroid-binding globulin	DLFTNQSDFADTTK	4.0	802.4	42.8%	44.7
124249351	inter-alpha-trypsin inhibitor heavy chain H1	TEGEERANLSSQVLK	2.1	554.6	21.6%	101.0

WT 1	WT 2	WT 3	WT 4	WT 5	WT 6	WT 7	WT 8	WT 9	WT 10	AVG_WT	StdDev_WT
77879670	11803109	6201350	5602795	60888998	127471545	54314220	91351793	79505932	82304343	59732376	40745395
582221	7928140	6875898	12245857	6979313	10244442	820290	376564	0	5364261	5141699	4463582
83347520	102932676	32963782	14576889	33550102	68722842	43772597	97956084	105651252	68613287	65208703	32573225
32512156	15487793	11985213	30734	35809219	45081605	35017153	76897872	79045628	118205965	45007334	36299608
2667835	57461524	36060955	22210753	45102460	38181250	20404136	13585080	276652	23045703	25899635	18314679
30163567	14331213	10109858	992682	37512193	40724668	29419771	66075435	71577176	88058420	38896498	28409251
33427372	30879996	21985699	15152151	12398032	10856151	4376936	24650676	7591308	5003558	16632188	10533910
37967270	0	6382664	2013138	15067272	36897836	30773408	53778821	97070568	51666476	33161745	29831095
9378569	4284893	6816777	1881649	4339481	7045439	6521819	4700979	671222	628664	4626949	2909538
10671334	2241842	8111876	2356822	36624779	1798032	13540251	12044772	22932461	14554555	12487672	10757921
28818223	28873795	14298266	1055741	264502	5437068	7151034	11453385	13893837	12710870	12395672	9998711
17097202	0	1084983	608230	1086269	433594	31389195	77172468	63048054	56643185	24856318	30260431
38865092	2204250	21282192	2482138	24031203	37193869	46359667	79643298	47627450	41987115	34167627	23057000
11022357	0	0	286007	0	11047936	10820635	11810179	15556055	873236	6141641	6374894
53612999	2028431	0	424529	27444761	92693886	109675577	91447258	192782370	164682927	73479274	69048151
83862822	8191530	98073695	24380140	26594275	1952730	48887970	134075952	86606492	62893785	57551939	43107661
16729116	1045948	2137323	2172907	2687968	29455198	36035495	41852948	39487967	48049619	21965449	19027941
24560	29552	64886	11223	39759	36229	26267	43163	0	45045	32068	18270
172053921	93134635	169045456	114844346	209594716	103349679	84672181	166867504	94352274	95430459	130334517	44479591
123929468	32164466	69388735	47482307	73227861	98118586	83300929	222970391	131379260	140294272	102225628	55326357
89522243	4545691	13029768	7277052	97658971	45978993	30911408	96094139	37576344	43974245	46656885	36017948
119650281	23437867	18588630	10498581	61935210	149808128	104796014	115689505	128298692	101141728	83384464	50691341
84612093	11067753	15885638	35796172	206530	36019837	33965334	122797659	46666141	48255704	43527286	36371382
72249345	0	6236356	2382363	5727638	60203218	27736130	86574419	55788685	50546483	36744464	32235177
47790743	308572	0	4958032	5291919	61506129	46122150	64067933	78495698	70167761	37870894	31788602
2055864673	298926021	852458497	1136837643	970416098	1156324749	924163014	1985840965	1075229526	963367537	1141942872	522315133
331384717	390103837	107269167	53698795	229923069	1055221400	618352682	735842598	892276625	936845923	535091881	361658664
687004835	304612409	603895295	130951358	151919195	422465031	393761075	995730818	343160381	311981966	434548236	262774943
66277504	253273	2001103	11119295	27762949	46861592	24619849	78731471	37501857	33600356	32872925	25865180
56889632	67566830	60610168	27652568	40241928	68767163	85585845	83762878	65752509	49606503	60643602	18065278
194089337	175899646	142695712	46863718	97521355	146392805	96296984	212025364	146087986	96849789	135472269	51134882
50975370	76351724	68105398	34492215	56210004	97320047	76169810	109781564	58438446	56581685	68442626	22393770
932203673	3856759995	3925848849	863373467	1204326873	2374680473	1939440587	2696901687	4779297641	3353397112	2592623036	1370139467
174172051	87345083	101655867	47079443	84148920	83408863	60392581	147860350	65368728	45365529	89679742	42124186
55338959	30775467	24269923	17895463	40685130	106382597	63136345	55263066	67817082	76528490	53809252	26735241
5846184	771622	595062	0	15355304	9013663	4508186	38971735	28070224	26758151	12989013	13776269
5501163205	707597149	738269633	1266134983	1625882885	7581905700	4151891577	10094890998	5612715294	5300346480	4258079790	3170510966
633375	159873610	123220761	39192146	100046295	32765273	0	0	2577447	460911	45876982	59927788
2381270630	2790224996	1942623380	422283154	18012720	2295216	5439680	1104352266	46890116	1063017	871445518	1107343877
343664351	728450375	493071266	88381926	258090	0	0	180327923	2655021	0	183680895	257080691
11588500849	19013184463	10210120520	6495738258	1974728353	174953189	510231846	13511496284	1870004402	35385362	6538434353	6707985885
647111220	1255502876	998558536	336794032	498060157	691783110	505640785	1024225319	539712388	437915255	693530368	300026516
4175692	52225387	47709673	22485207	29086676	28453723	6280539	0	4852775	1963909	19723358	19319296
35274226	89034680	86301937	437828580	17833900	451941676	111541748	165233990	362202254	236877786	199407078	164078649
9014008	4008484	11551718	3650606	875477	12139185	17149671	29226585	6822083	3863055	9830087	8404219

Null 1	Null 2	Null 3	Null 4	Null 5	Null 6	Null 7	Null 8	Null 9	Null 10	AVG_Null	StdDev_Null	p value	Null/WT
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0002	0.00
0	3962937	241848	5962392	489633	532649	0	141551	0	0	1133101	2082141	0.0191	0.22
29678524	24810400	23924390	21265553	14066100	19897502	35900210	23597396	28158729	20443467	24174227	6030622	0.0010	0.37
36229905	9543385	21176412	13312914	21586020	27404271	17498255	5800552	8155861	12735012	17344259	9466945	0.0315	0.39
16505328	4626207	6082734	8784715	7917345	9727359	9715068	9562111	27109058	9650278	10968020	6465078	0.0257	0.42
33560147	8332553	20115055	19046456	18520536	29122683	12070873	6614375	7636940	10497219	16551684	9265388	0.0295	0.43
15444627	8036908	11620465	9406179	6420333	7040609	2822350	2536267	4847093	4487548	7266238	4048034	0.0172	0.44
84448830	65798410	206935358	134710492	333675338	109597165	73560432	81316581	53242647	68954282	121223953	87204416	0.0073	3.66
8514273	17182059	17623815	19249969	5224690	16933918	21394994	20466602	11204955	25994416	16378969	6307959	0.0000	3.54
23057636	36984852	74599567	40950470	76172488	36130482	12881823	21051091	25145197	20181015	36715462	22155066	0.0060	2.94
58339245	30058380	63866147	51651433	80648167	21085645	11801011	8416649	5372846	8682382	33992191	27410714	0.0310	2.74
100388236	85083031	78095515	81316518	44721035	21580772	61927648	62890387	57365936	76937249	67030633	22517337	0.0024	2.70
60581429	94519376	149300359	121130464	68733456	52292960	24431116	173297682	27641895	25162260	79709100	53246621	0.0232	2.33
0	17753013	9066867	29995797	5597427	16215221	18634389	18607874	11463168	12609060	13994282	8279002	0.0288	2.28
219678301	118247105	163760395	177013818	191047617	192375134	156139497	197833409	120012071	135251152	167135850	34591465	0.0012	2.27
164491456	186559523	204491162	237235484	124565044	54459357	69849979	102067781	79930050	78136888	130178672	63916305	0.0080	2.26
25080827	46495389	62467873	56312811	47880135	54163918	58323900	54701050	47725646	42798708	49595026	10525933	0.0008	2.26
48285	132600	27724	102928	70200	65081	68300	9135	32794	129359	68641	42009	0.0212	2.14
322032095	248624038	400189426	299613896	517099224	134617268	301299234	104500738	119152239	258618957	270574712	129798121	0.0046	2.08
474240948	233781569	324172746	180319980	199240943	130508609	114073336	111906233	184846954	111972079	206506340	115318016	0.0189	2.02
107583524	115728270	63087621	216607388	128688447	65482273	74153961	56165353	53232734	37547387	91827696	53007683	0.0388	1.97
135088492	196978168	78171260	211061391	134412666	210278959	159355059	176387375	163108511	151325269	161616715	40553942	0.0013	1.94
102324529	75928255	87485165	131893359	96037394	94496204	50509307	40580725	111904362	41110297	83226960	30877887	0.0169	1.91
68494300	83224907	96087863	115138809	74268715	79333633	44907756	44388917	48097923	47763517	70170634	24175313	0.0172	1.91
101740082	77676792	71171261	98618927	83457916	62354100	49298817	61388730	41997681	52281498	69998580	20350059	0.0149	1.85
2225653155	2171130777	3908972181	3115215351	2129452121	1325122354	1465992327	1320970884	1107566428	888467634	1965854321	954918856	0.0278	1.72
1113579018	882668953	1093255591	1168148273	841088847	721346835	760715433	990298691	711071267	711916388	899408930	179250018	0.0105	1.68
1017955992	719482357	1064311890	858413467	1113051601	534741997	441169308	430645165	577076430	445669492	720251770	273344230	0.0284	1.66
50728388	52453972	53420607	70161688	40549519	73245026	60882117	54311319	50431061	35289223	54147292	11718883	0.0292	1.65
44710576	48513221	76817045	53504680	37286630	30190771	29580299	25428306	26588051	46621106	41924069	15789316	0.0239	0.69
62623747	63361682	79323599	76347875	58833465	134047876	82568518	83071242	102600647	90579261	83335791	22333889	0.0085	0.62
44214426	48427229	52078974	46974861	32833998	38246298	38658162	31182736	34034684	42441470	40909284	7075619	0.0016	0.60
866090422	1042217660	1145380976	1506014524	1085203265	2157739662	1901256019	1824328031	1852440137	1895172992	1527584369	457145306	0.0315	0.59
58031138	67418985	90213667	66363132	47091645	46639943	31610401	29286065	33924313	28553100	49913239	20434519	0.0151	0.56
33258720	42459934	59336797	46532177	33112733	25327508	22431373	21516556	20452175	32082287	33651026	12573345	0.0447	0.63
8332298	69414	7169170	1808143	2862972	4958811	2466167	2204229	497062	1161726	3152999	2789027	0.0401	0.24
8421901009	7247546596	8814998029	10811884096	6623475644	7461676866	5155399135	4196341559	4320908486	4812167577	6786629900	2186692154	0.0525	1.59
6706358	20592571	0	360625	11141175	6221758	0	856039	3560828	1999253	5143861	6538872	0.0466	0.11
2012949	372462	751997	126074	357671	158097293	132037651	162639908	162596069	629293454	124828553	193077817	0.0500	0.14
0	0	0	0	0	20659800	20917269	8145965	13146247	65675427	12854471	20451644	0.0506	0.07
127593232	39175956	36107837	69011602	36360564	7093958867	2282191785	2059345627	3702930875	4041242254	1948791860	2400560081	0.0566	0.30
465158104	499361753	470199604	589187054	352878542	588889894	551190038	505587914	353175462	534869179	491049754	84476674	0.0548	0.71
1555474	722565	4252074	10813321	15101750	12562476	9554012	5559711	2537125	7243100	6990161	4902311	0.0585	0.35
52539680	68112882	84392048	139249476	51186044	152692743	80158285	99583369	100204658	121959084	95007827	34704498	0.0646	0.48
6575306	1501083	2381468	1567085	4994898	13106179	909712	7233030	2671970	1342838	4228357	3853323	0.0714	0.43

Suplemental Table S1

Accession #	Protein	PEPTIDE	Xcorr	MZ	% Coverage	MW [kDa]
110347469	alpha-2-macroglobulin	VNLSFPSAQSLPASDTHLK	5.2	671.7	48.7%	165.7
8850219	haptoglobin	CVVHYENSTVPEKK	3.9	545.3	59.9%	38.7
6680586	serine protease inhibitor A3C	YKGNASALFILPDQGR	1.8	876.0	18.7%	46.7
31982171	murinoglobulin-1	SLGNVNFSVSAEAQQSSEPCGSEVATVPETGRK	4.8	1142.2	43.6%	165.2
124487013	carboxylesterase 1B	FHSDLNISESLIPAVIEK	5.0	671.7	19.1%	62.2
8850219	haptoglobin	KNLTSPVGVQPILNEHTFCAGLTK	7.4	875.8	59.9%	38.7
6679182	alpha-1-acid glycoprotein 1	ENGTFSK	1.9	392.2	48.8%	23.9
31981720	protein Z-dependent protease inhibitor	EGNFTSTFDK	2.2	573.8	43.1%	51.8
20330802	serotransferrin	FDEFFSQGCAPGYEKNSTLCDLCIGPLK	5.4	1085.5	66.4%	76.7
31982171	murinoglobulin-1	SLGNVNFSVSAEAQQSSEPCGSEVATVPETGR	5.7	1099.5	43.6%	165.2
31982712	carboxypeptidase B2	AHLNVSR	2.4	399.2	25.1%	48.8
161702988	apolipoprotein B	ESMNFSSK	1.9	473.7	23.8%	509.1
214010170	clusterin	RNSTGCLK	1.8	468.7	36.6%	51.6
6679182	alpha-1-acid glycoprotein 1	ESQTIGDQCVYNSTHLGFQR	4.5	762.4	48.8%	23.9
8850219	haptoglobin	CVVHYENSTVPEK	2.7	502.6	59.9%	38.7
170172530	immunoglobulin J chain	ENISDPTSPLR	3.0	615.3	49.7%	18.0
147904569	carboxypeptidase N	LSLDSNNLTALHPALFHNLSR	2.8	778.7	28.3%	60.4
46559389	angiotensin-converting enzyme 1	TFDVSNFQNSSIK	3.2	744.4	15.6%	150.8
7305235	leukemia inhibitory factor receptor 1	ILSYNVSCSLNEETQSVLEIFDPQHR	4.2	1027.2	28.2%	122.5
31981720	protein Z-dependent protease inhibitor	ETYFNLSK	1.7	501.7	43.1%	51.8
160333372	lumican	KLHINYNNLTESVGPLPK	5.5	510.5	48.5%	38.2
148232950	carboxypeptidase Q	EVMNLLQPLNVTK	3.3	758.4	12.3%	51.8
16418335	leucine-rich alpha-2-glycoprotein	MFSQNDTR	2.6	508.2	18.7%	37.4
12963497	kininogen-1 2	EGNCSAQSGLAWQDCDFKDAEEAATGECTATVGK	3.8	1222.2	45.1%	47.9
6754950	alpha-1-acid glycoprotein 2	TQMVFFNLTPNLINDTMELR	3.4	810.7	35.8%	23.8
54112422	mannan-binding lectin serine protease 2 1	GDSGGALVFLDNETQR	4.5	840.4	16.9%	75.5
237874259	polypeptide N-acetylgalactosaminyltransferase 1	INQFNLMASEMIALNR	2.3	949.5	6.1%	64.2
31981720	protein Z-dependent protease inhibitor	ETYFNLSKK	2.0	377.5	43.1%	51.8
7305235	leukemia inhibitory factor receptor 1	LGVQMHPGQEIHNFTLTGR	6.0	718.0	28.2%	122.5
31982171	murinoglobulin-1	EVNSQLDNNGCSTQEVNITELQSK	4.7	884.4	43.6%	165.2
7304875	alpha-2-HS-glycoprotein 1	CPLLTPFNDTNVVHTVNTALAAFNTQNNGTYFK	4.5	1228.6	46.7%	37.3
20330802	serotransferrin	NSTLCDLCIGPLK	3.2	746.4	66.4%	76.7
111378397	phosphatidylinositol-glycan-specific phospholipase D	VNGTLTQVLLVGAPTHDDVSK	5.5	722.4	27.3%	93.6
160358829	hemopexin	SLGPNTCSSNGSSLYFIHGPNLYCYSSIDK	4.7	1113.8	54.1%	51.3
148747546	serine protease inhibitor A3K	FNLTETPEADIHQGFGNLLQSLSQPEDQDQINIGNAMF	4.0	1541.1	82.3%	46.6
148277039	alpha-2-macroglobulin-P	SLGNVNFTVSAEALDSK	3.4	877.4	18.3%	164.2
12963497	kininogen-1 2	EGNCSAQSGLAWQDCDFK	4.1	1037.4	45.1%	47.9
33859809	fibrinogen beta chain	GTAGNALMDGASQLVGENR	4.7	931.4	69.9%	54.7
422010931	complement component C8 gamma chain 2	EANLTEDQILFFPK	4.0	833.4	35.1%	18.9
6754950	alpha-1-acid glycoprotein 2	TQMVFFNLTPNLINDTMELR	3.6	811.1	35.8%	23.8
6678085	alpha-1-antitrypsin 1-4	ELVHQSNTSNIFFSPVSIATAFAMLSLGSK	6.7	1071.9	81.4%	46.0
68131562	sulfhydryl oxidase 1 a	NGSGATLPGAGANVQTLR	5.1	842.9	20.1%	82.7
8850219	haptoglobin	NLTSPVGVQPILNEHTFCAGLTK	4.1	833.8	59.9%	38.7
6680684	protein AMBP	KEDSCQLNYSEGPCLGMQER	5.4	806.7	22.6%	39.0
33563297	complement component C8 beta chain	THMFNFTSGFK	3.5	445.2	34.5%	66.2
113722129	Kazal type serine protease inhibitor 5-like 2	VNLSWFNKTVDPCPDLK	1.8	1018.0	17.7%	11.0
6753556	cathepsin D	YYHGELSYLNVTR	2.7	539.3	5.4%	44.9
9966766	disintegrin and metalloproteinase domain-containing protein 21	SASHNCYKEINLQGNR	1.8	947.4	13.3%	80.8

WT 1	WT 2	WT 3	WT 4	WT 5	WT 6	WT 7	WT 8	WT 9	WT 10	AVG_WT	StdDev_WT
365109227	111677730	170196953	191468127	174785983	231024043	114203384	285758533	336103099	334288582	231461566	93687360
14510994	47534204	17495835	5774989	3935188	2072097	13102028	13073493	10483416	1902374	12988462	13326676
18575164	29170654	37132889	0	28795199	20017256	10256586	37650156	10314700	10358439	20227104	12691790
87717252	0	0	0	17590283	32636667	38026604	112803254	140292285	64715965	49378231	50252106
225572161	66091978	109318604	221113227	159494622	165654791	85402799	260424626	227774849	174191197	169503885	65824275
76302643	1686651	66414826	154694507	0	0	727494	62919187	1638872	0	36438418	52547031
160147103	577479912	322759362	123373266	71201914	162763542	149765977	511209000	99493473	110565884	228875943	180164331
404872784	511436414	443465860	116517190	125792947	175770160	195814718	551120792	201224425	156139506	288215480	169546170
259199566	181514971	114543485	4740391	130295587	578661362	333696574	640737215	844216776	536092100	362369803	273653520
836806844	22694430	6826054	12226129	1242522868	466213766	476136649	1676327488	1491757879	899712003	713122411	618990454
43394154	97801218	64193959	18061678	20268034	30785027	29810078	75789632	15871304	16569100	41254418	28662020
4842399	6635856	2364857	2986963	3129503	7389111	8644696	16968433	3746668	4884679	6159316	4315025
10540343	22185236	18985589	8070997	8775351	13057535	6408899	16180178	6989019	8085541	11927869	5484697
53467797	388671859	292457026	85339875	15381588	24878516	2223649	12528094	12519678	14440388	90190847	136127977
44767979	177767394	134742335	16777865	9907358	11412055	6288633	35262183	8847379	12061193	45783437	60384222
597780027	114945169	192221807	137106113	223004371	331374509	230580831	480956775	905085176	161743461	337479824	253144979
1459589009	26615979	338864619	117823400	1144362174	564955770	461101189	718578480	962420906	773793383	656810491	450744964
29350475	9133562	8253419	12219286	12885975	20470378	17841247	66234449	18849768	19189079	21442764	16925696
46405983	26798837	9266877	3313506	2076697	16490878	28171828	73743364	93307854	49946348	34952217	30661165
479603909	370685764	306642805	134570287	98645016	166582348	188270868	589194346	226225907	142671385	270309263	163471213
4682453	212204	0	0	332889	14363273	36367864	46978880	76959564	51354332	23125146	27829520
81984969	1713965	2580573	6633035	4763617	160996907	125159796	132486608	178437312	164530061	85928684	75283264
758444311	1563220569	1231185245	331386100	167275208	281938771	321582687	739896184	93521551	92419014	558086964	506133424
0	0	0	0	16115199	6750122	1729237	22973776	27609560	5251145	8042904	10429806
5284280	33570894	9309168	659943	2747013	2276544	1086215	35424104	5497037	2711469	9856667	13236444
108543662	15770503	29518378	17695946	24458562	110946711	115743788	227197843	154318868	157633534	96182779	72486909
117648358	6459984	7875382	10759295	55582176	41978530	75878641	99742574	70156506	43213893	52929534	38575174
5546507	0	361278	223144	2178747	4509263	2784440	26077016	13275477	16776252	7173212	8736383
136937433	5516567	86495755	4843232	28689587	220700589	272307881	299207509	380908883	336185113	177179255	142860829
0	18084336	34989225	13855096	68240157	0	160863	2251456	437293	1232839	13925126	22280251
7688178	1102061	8086604	1717766	11255698	7465391	19456051	41031766	32238463	17147594	14718957	13081431
459724039	29403255	32022239	9258709	8155522	633479008	589065458	1970807843	1146619971	1661249106	653978515	718282882
6357659	0	4543492	2717464	0	2239385	106429	7244527	1142240	625499	2497670	2692985
138299737	641496	86415123	0	84018104	61390817	39373201	275542973	140925343	54875507	88148230	81695250
808503018	815466795	331866274	0	71396294	115286901	153658512	1170958087	772901016	318805016	455884191	403133475
1884709	210696036	211479934	5003181	54641364	2464300	8201831	5063726	11686864	10670404	52179235	85149244
0	2387924	991883	1002780	14450422	14040867	8174663	73080559	56010417	16930017	18706953	25266440
0	75417138	71919162	55963808	86977717	28375430	15212212	0	0	20719154	35458462	34075107
428536574	197175712	262592752	294818	416012361	317176824	258298291	738338129	230714476	159196140	300833608	197363034
3728000	82430651	21992383	296304907	0	1196136	379555	119307502	2242876	142476	52772449	95149336
458357359	319426770	67725871	0	15460314	67552691	162670648	582371397	581299723	361465056	261632983	228808623
129162927	67419013	24560317	110728873	10499339	84900323	115073512	174257901	98694682	138628168	95392505	50530096
60063374	547887	31148682	317375	0	0	203753	54389657	2064838	4053820	15278939	24089564
86469381	37594245	23624072	7604960	18009744	61368979	47207902	198754562	78908331	29782946	58932512	55489555
259360836	63589158	61573713	21331815	98969021	193001432	119269880	293986920	74365298	55725164	124117324	92999652
11282985	7443376	12796130	1829562	69687735	2089965	35894581	101036688	24192651	0	26625367	33670894
19896765	61459920	5610873	2273717	2662334	31370042	24671269	35296829	44036713	74185779	30146424	24518141
7876461	296480328	247963808	169874135	330937121	104090928	17957143	22523425	10769021	11384586	121985696	129499224

Null 1	Null 2	Null 3	Null 4	Null 5	Null 6	Null 7	Null 8	Null 9	Null 10	AVG_Null	StdDev_Null	p value	Null/WT
204679752	181760022	137191968	210629489	163824654	102809786	153238895	221734215	132545223	191130857	169954486	38625671	0.0709	0.73
5416342	2591782	10785775	7760755	2364833	4613234	2831730	2418214	2304035	4439781	4552648	2810918	0.0658	0.35
5517711	12814340	12880527	20436419	10139278	7733142	12184737	15180381	9358711	15218759	12146400	4263169	0.0724	0.60
145293250	65791081	118609507	153293955	81119501	62812577	70118227	38813419	64144081	62949690	86294529	38822039	0.0826	1.75
182698152	158796994	146886736	149200725	127828825	79545943	99459636	113767588	84314591	115998527	125849772	33528887	0.0780	0.74
0	1408951	3562000	185195	2036802	5469550	6315062	3655868	4125875	14784895	4154420	4282278	0.0687	0.11
53389195	101255122	144208074	90695241	81003055	152306054	120710869	140557193	122680989	168388958	117519475	35758239	0.0712	0.51
151234483	142259223	73852508	189577779	140997317	244880594	215632406	173096142	201327019	278185783	181104325	58444629	0.0752	0.63
208022212	90036852	135296405	102293270	95165151	356073964	295571705	185199063	165573869	268862625	190209512	91627591	0.0755	0.52
2237349209	955882883	2206464713	1852921174	1636717927	787871375	826289892	650845164	494873319	728934953	1237815061	673430091	0.0864	1.74
17544132	24992782	34913867	28923892	22138780	27610986	13345339	19437759	16446680	31347946	23670216	7046020	0.0758	0.57
2463876	3260572	5803932	5007030	1594809	5422939	2637828	2308101	4323605	1811630	3463432	1553386	0.0795	0.56
9148268	13197487	11189226	8984712	10266150	9004576	1908083	3829759	5842810	8826295	8219737	3415220	0.0862	0.69
11988368	6955800	8433128	8419529	15821190	18203004	3864366	2213120	5309149	3909793	8511745	5318484	0.0741	0.09
2745311	4353326	12074085	6554149	3584123	19950952	7214443	7899240	9610163	21593365	9557916	6546011	0.0755	0.21
66028409	158291404	359573739	190865819	372290129	124044818	35296808	274220078	135276258	34690218	175057768	124105413	0.0851	0.52
1928019451	678738572	2089966791	1170398548	1612132678	1301134994	819533697	319210619	348409113	661381857	1092892632	632092272	0.0926	1.66
41056507	49470622	62910551	62141214	38789830	21217612	17507965	18663035	19522674	20920016	35220002	18184911	0.0965	1.64
246435866	26598439	53853386	61048680	107843116	73177143	93419212	51994638	14053925	35543834	76396824	66313225	0.0896	2.19
129776391	103447508	165613277	209283998	95746018	313637274	90288710	259794158	92660592	225825163	168607309	79756774	0.0940	0.62
63780826	36688824	105876148	32868733	36113417	49766423	21411207	34917503	33529118	19260477	43421268	25394283	0.1057	1.88
99753073	123264420	153921398	157842694	99932090	145850914	130218963	123004088	122561480	133189696	128953881	19906942	0.0976	1.50
107153834	146730859	277606187	218446626	125704962	342144996	357588284	391183286	225768691	501689950	269401767	128428915	0.0975	0.48
11692815	275968	5446692	0	261248	0	0	846525	259919	964819	1974799	3789599	0.1009	0.25
6335177	1284790	2587063	2671506	1021709	1809089	2160766	1699101	722015	4552052	2484327	1732411	0.0978	0.25
109045746	155056786	193675943	213450853	127512882	166657792	116131083	98058543	96006687	128717086	140431340	40438210	0.1091	1.46
182627077	103127511	327459550	171225603	100796319	70485645	43470591	43107479	11367627	32368446	108603585	95824794	0.1055	2.05
8852850	668479	669251	0	3218806	3006225	2107624	2454765	1623328	0	2260133	2596728	0.1055	0.32
445243571	210164426	258346843	334792981	298469700	463926905	239152000	238558308	158509252	87769097	273493308	117614784	0.1171	1.54
1479926	2503373	1190910	7220145	666411	2663124	256203	549582	304982	903592	1773825	2091113	0.1031	0.13
21335709	18968331	31025185	46099831	25464029	30376104	23168934	16048810	10842588	10894338	23422386	10637573	0.1200	1.59
344208867	344927619	297353477	203536249	339094665	160170832	343221994	181166231	241129302	182849992	263765923	77757578	0.1048	0.40
338444	1066719	1421608	174731	0	3792288	924864	0	1592024	257761	956844	1154038	0.1136	0.38
78767175	31077695	52660389	43604353	43191767	51302410	35919106	29920334	25744106	43557097	43574443	15275545	0.1071	0.49
1491294867	396855942	1315164114	1345448097	1822271709	952226098	583180518	325945672	130552884	50375657	841331556	626833751	0.1193	1.85
637332	0	817899	334667	6969291	11120787	16115145	4599281	10912389	13006155	6451295	6021532	0.1075	0.12
17142351	490568	9771825	5443747	0	0	707841	6437457	6677885	4436479	5110815	5418465	0.1135	0.27
13004457	685735	39540557	758855	6331848	35501569	27484975	9348378	550471	30282703	16348955	15352702	0.1233	0.46
625961944	555756369	707337968	793114148	570389242	279509238	245574239	266385425	214181947	230992999	448920352	223289697	0.1335	1.49
3869503	328273	418700	929890	682352	7888714	4111942	2388792	1829472	9430766	3187840	3198883	0.1169	0.06
1252037392	208258473	328827450	408682184	922319464	584242596	779129181	226708247	64787172	101644364	487663653	390575065	0.1317	1.86
269867600	46843200	111903673	67575181	61079869	136281916	151100817	159861092	206878488	167104928	137849676	69521870	0.1357	1.45
8268808	0	2774638	1082132	231160	3684898	1675011	2082651	1299648	7326590	2842554	2839889	0.1223	0.19
54625705	33953522	52784309	11762322	27648810	14258515	28597564	3725971	19701882	47894479	29495308	17773650	0.1275	0.50
359467681	217108959	285523241	319999124	184381206	125835699	76700969	106881817	111844650	121006443	190874979	100129526	0.1398	1.54
1448875	5489131	6250130	36479761	16618223	16940138	0	0	4419026	0	8764528	11626401	0.1302	0.33
50078452	44337080	45576883	55800436	43097719	42157084	45574077	43925911	39554949	20759236	43086183	9049448	0.1348	1.43
6665447	11521376	12434508	26736307	245399776	15271992	40030430	16089017	6406273	111565656	49212078	75742138	0.1424	0.40

Accession #	Protein	PEPTIDE	Xcorr	MZ	% Coverage	MW [kDa]
226531069	inter alpha-trypsin inhibitor, heavy chain 4	KAFITNFSMIIDGVTYPGVVK	5.0	1159.1	33.3%	104.5
225735645	sulfated glycoprotein 1	TNSSFIQGFVDHVK	3.0	527.3	31.2%	61.4
124430576	thyroglobulin	FVNTTDMMIFDLIHNYNR	3.1	760.0	6.5%	304.3
161086891	complement component 6	VLNFTMK	1.7	435.2	10.1%	86.6
160333372	lumican	LGSFDGLVNLTFIYLQHNQLK	4.3	807.8	48.5%	38.2
422010931	complement component C8 gamma chain 2	SLPVNDSVLDVFER	3.4	795.9	35.1%	18.9
12963497	kininogen-1 2	IANFSQSCTLYSGDDLVEALPKPCPGCPR	6.0	1085.2	45.1%	47.9
31560464	C-type lectin domain family 4 member F	SSTENTSAELHVLGR	4.2	534.6	8.8%	61.2
109627652	complement factor H	DNSCVDPPHVPNATIVTR	4.5	646.0	27.2%	141.2
262331536	fibrinogen-like protein 1	IDLTDFEKNSSFAQYQSFK	4.1	757.0	15.3%	36.4
109627652	complement factor H	WDPEPNCTSK	2.5	617.8	27.2%	141.2
226531069	inter alpha-trypsin inhibitor, heavy chain 4	GLMLLLNDTQHFSNNVK	4.4	649.0	33.3%	104.5
8850219	haptoglobin	NLFLNHSETASAKDITPTLTLYVGK	6.5	912.5	59.9%	38.7
449083339	fibronectin	LDAPTNLQFVNETDR	4.5	867.9	22.5%	260.0
31981720	protein Z-dependent protease inhibitor	YFDIEYVSINFQNSSQAR	4.8	1091.5	43.1%	51.8
147904569	carboxypeptidase N	AFSGSPNLTK	2.3	511.8	28.3%	60.4
449083339	fibronectin	DQCIVDDITYNVNDTFHK	5.1	733.3	22.5%	260.0
214010170	clusterin	QELNDSLQVAER	4.2	701.8	36.6%	51.6
111378397	phosphatidylinositol-glycan-specific phospholipase D	LSSSPNVTISCK	3.5	647.3	27.3%	93.6
8850219	haptoglobin	VVLHPNHSVVDIGLIKLK	3.3	496.6	59.9%	38.7
244791354	phosphatidylcholine-sterol acyltransferase	IVYNHSSGR	1.9	517.3	21.5%	49.7
31982171	murinoglobulin-1	NYEVQLFHVNATVTEEGTGLEFSR	5.9	1372.2	43.6%	165.2
153791843	receptor-type tyrosine-protein phosphatase γ	SDFSQTMLFQANTTR	2.9	882.4	11.2%	161.2
19527214	apolipoprotein N	ASVVNVTQHCTMESWESMNEVAR	4.2	900.4	23.5%	27.9
125347464	afamin	NNSESFLHLYMYEVAR	2.6	664.3	30.6%	69.3
112421031	vitamin K-dependent protein C 2	IVNGTLTK	2.0	423.7	21.7%	51.8
226531069	inter alpha-trypsin inhibitor, heavy chain 4	HLQMDIYIFEPQGISILETESTFMTPELANALTTSQNK	4.6	1086.8	33.3%	104.5
15375312	complement component C9	GAGEVSPAEHSSKPTNISAK	5.1	492.7	26.9%	63.4
147904569	carboxypeptidase N	DGSDSAAMVYNSSQEWGLR	4.5	1045.4	28.3%	60.4
148277039	alpha-2-macroglobulin-P	VSMESVRGNQSLFTDLVVDK	2.1	1121.1	18.3%	164.2
33563297	complement component C8 beta chain	KTHMFNFTSGFK	3.2	487.9	34.5%	66.2
144226209	fetuin-B	VLYLPAYNCTLRPVSK	3.3	613.3	9.7%	33.9
110347406	complement factor I	WGEVDLIGNCSQFYPDR	4.9	1029.0	32.0%	67.2
345110552	complement component C7	RNYTLVGK	2.5	476.3	17.4%	93.3
244791354	phosphatidylcholine-sterol acyltransferase	AELSNHTRPVILVPGCLGNR	6.2	735.4	21.5%	49.7
291290989	voltage-dependent calcium channel	LDFIEDPNFKNK	2.1	494.9	3.1%	129.6
6754950	alpha-1-acid glycoprotein 2	EYHTIDDHCVYNSTHLGIQR	6.1	820.4	35.8%	23.8
31982171	murinoglobulin-1	NASFVYTK	2.1	465.7	43.6%	165.2
226531069	inter alpha-trypsin inhibitor, heavy chain 4	AFITNFSMIIDGVTYPGVVK	3.8	730.4	33.3%	104.5
8850219	haptoglobin	NLTSPVGVQPILNEHTFCAGLTK	3.9	814.1	59.9%	38.7
148747546	serine protease inhibitor A3K	YTGNASALLILPDQGR	5.0	564.0	82.3%	46.6
294997253	histocompatibility 2, blastocyst	EQNYTCHVYHEGLPEPLTLR	4.5	819.7	19.6%	40.2
31981720	protein Z-dependent protease inhibitor	DFDIKETYFNLSKK	4.2	583.6	43.1%	51.8
283483997	maltase-glucoamylase	VILILDPAISGNETEPYPAFTR	4.6	807.1	22.4%	208.4
160333710	serine protease inhibitor A3M	LINDYVSNQTQGMIKK	3.1	623.7	77.3%	47.0
13385294	prenylcysteine oxidase	LLNQTLR	2.3	429.8	25.2%	56.5
31982712	carboxypeptidase B2	KEVHFFVNASDVDSVK	4.9	608.3	25.1%	48.8
31982171	murinoglobulin-1	RNYEVQLFHVNATVTEEGTGLEFSR	5.7	725.6	43.6%	165.2
112363082	neogenin 1	LPSGTLVISNATEGDGGLYR	2.5	1011.0	3.4%	162.8

Suplemental Table S1

WT 1	WT 2	WT 3	WT 4	WT 5	WT 6	WT 7	WT 8	WT 9	WT 10	AVG_WT	StdDev_WT
1923415	2924898	115426	0	0	66900	427347	858206	0	0	631619	1011164
34914756	11162164	37364346	2960282	21887609	32089354	19289038	43190325	35443820	29089271	26739096	12681632
0	8913294	377138	1135256	1266749	98324575	8188428	35180127	0	1095115	15448068	31037016
180876264	49510409	94163142	38323219	103641611	2180173	20242782	74326967	31053820	14518113	60883650	54047717
30880511	12403019	3399433	0	609486	6673133	11527352	48434422	39759588	19499303	17318625	17011017
101342395	31646036	72642414	0	4515496	60040333	44342938	117666980	33614458	28749163	49456021	38705705
398178703	25749794	196865446	0	296019842	299500086	186879495	779491096	522044527	324999814	302972880	230471353
3120054	3208901	5494860	8646035	83693	12181317	4062940	10348609	7908424	4006384	5906122	3752679
0	544722076	115751200	31425254	12093174	222266131	8282548	1088152	155413	37513111	97329706	172370025
40369761	79909409	18112638	1941681	1548957	17362796	11204374	38006333	12106295	6453795	22701604	24165034
0	0	432790	3775469	9269650	6597036	5877436	73993084	57045139	23337367	18032797	26247481
314066	33576004	3265365	2701269	5397656	0	510800	1033392	253567	0	4705212	10298564
37385013	202026719	77222031	0	0	0	1616794	90586946	620469	0	40945797	66348480
105147901	506064997	172342308	97844874	41577068	101070714	434930900	452665459	258082168	94421488	226414788	174907424
21209837	38091592	7032309	133346331	30608072	1348228	1151383	31742080	5280810	2868347	27267899	39832723
221634628	101714593	98439854	51879774	192011839	235111363	165564695	248216469	243355566	172749050	173067783	68765508
353499825	609794314	346216701	4693935	54998493	287011914	521058188	157915125	680797661	278805051	329479121	224645787
914363900	869144139	2947798790	670818262	1575930585	792964367	529800328	1506952627	661080371	952994557	1142184792	722210873
153424388	31359716	45328763	26652490	105009486	163691457	157819319	170381550	322226314	213768333	138966182	91564745
17697055	534213	539755	1353968	0	0	104453	13302664	638746	0	3417085	6465385
9942206	21978780	17641350	6100882	12509361	20420693	22346055	26343051	12991317	21827925	17210162	6501961
20121665	0	67190	0	9532495	1264124	2938109	66115379	33905352	13307406	14725172	21175408
10970958	168637179	66919828	41743987	2384265	14276712	8509290	14139078	4115997	3789760	33548705	51680280
6648108	380796	8446368	2673995	7144343	62401726	30131005	138689922	115084798	44137241	41573830	49575303
0	0	52039	204408	0	33260594	3308871	699027	37682099	90423285	16563032	29759629
62592585	59493930	63114502	25801706	62959391	61549425	48484509	105752038	46652941	35961964	57236299	21351050
7631390	26304873	4280264	0	0	1084199	968672	44705870	5037380	1282885	9129553	14767710
157450957	175829289	133819613	58541732	57537337	65705793	62255929	99924259	47100126	34874646	89303968	49679748
0	8704966	10684130	3001002	26551107	25049290	11353824	93359396	59552987	24209155	26246586	29097644
153566329	6568581	10127402	11964132	8599607	47222433	216667548	2548272	225962077	501317264	118454364	161654706
67072639	17266890	15860873	6439820	30456327	23397100	16861171	99749226	27511447	22613762	32722926	28595854
308014	6547411	5590839	45274630	4954056	1032833	487871	0	0	78163	6427382	13891461
403817	0	512468	1163097	63674394	20632775	5704878	101942298	71098364	18827386	28395948	36897524
93532662	42578939	52013865	28132991	104989200	13691851	10481636	50982399	17138100	15794361	42933600	33479242
58428832	5926257	16739295	5343412	3668243	15299353	43280686	82519027	60874065	51969671	34404884	28396942
138826	2572393899	1350252399	886591789	352278040	19249889	24464067	135611914	0	1682869	534266369	850848837
75568952	98338304	63611421	9764025	14606316	12137346	13148890	549528902	14543487	3078729	85432637	166423837
32859961	15362787	9685942	9698306	63744960	26525160	23212911	85756663	93086405	86382533	44631563	33945990
38638866	58771192	21349344	677337	732446849	13290520	10905285	84208983	18716094	9887741	98889221	224084718
234962613	129957830	10800018	2688643	71804660	272472	936813	2146152758	73509848	0	267108565	664603700
1710652887	846092921	671824257	415916	272817716	1762786304	3428417662	2377413608	2930430665	2541323054	1654217499	1172032145
216916254	13141447	12106980	18921143	130927838	235352177	130841574	197562879	225768174	206863761	138840223	92742841
58075578	363289	21163426	2098995	0	0	15436151	114422293	52500087	69500559	33356038	38896260
22815319	13249823	7715150	220433	344692462	28811283	23170793	44568194	72774867	44536969	60255529	102140588
180338546	74781310	29212153	23653273	25092718	25013820	58657734	378242608	192286165	116198645	110347697	113529512
22026773	32745061	96590461	74292883	580848319	207377045	227876318	70115765	57428133	387797707	175709847	182143400
13176314	16583128	3154767	3017298	5966527	74494376	11158325	16106266	8589817	21032986	17327981	20950168
14621123	1293601	67625	735293	23428386	4235690	4779036	20404885	16062975	5055130	9068374	8712979
1201567	1103059	1712021	90529627	3965269	4497924	1582610	4620011	5162979	3363189	11773826	27714309

Null 1	Null 2	Null 3	Null 4	Null 5	Null 6	Null 7	Null 8	Null 9	Null 10	AVG_Null	StdDev_Null	p value	Null/WT
0	0	506974	0	0	202610	0	461555	0	0	117114	203838	0.1321	0.19
37583605	30631558	40249293	31655350	29432455	39168585	28248441	29822490	32820640	33161881	33277430	4265113	0.1397	1.24
0	0	465209	0	0	0	0	0	0	0	46521	147112	0.1340	0.00
161450539	168059758	291487812	293765434	160733872	27510320	14078598	25100411	20134483	32880953	119520218	111370151	0.1515	1.96
76625853	12414452	20408435	26930807	48042488	37879198	41688110	20745793	5702404	10018642	30045618	21561571	0.1601	1.73
64107915	111951689	133917033	148700638	68105527	54471726	38668280	48343097	39808615	44846489	75292101	40870267	0.1639	1.52
343815508	194257265	257558498	223104829	192077941	132400763	149935822	120531477	113101669	177110567	190389434	70842857	0.1571	0.63
10741661	4888445	4273105	13072051	4188348	11536939	3065005	20927579	6701470	9950363	8934497	5498346	0.1674	1.51
8760889	9291866	4595838	731129	4696399	21304984	26881571	29840208	19567955	33836638	15950748	11819584	0.1537	0.16
2202957	1068580	4821656	970841	2515663	28694474	18096188	19087904	10818634	18918845	10719574	9874659	0.1639	0.47
7081389	1592023	23937416	2061866	289846	0	363011	9507331	6162472	3764726	5476008	7248138	0.1620	0.30
0	0	0	0	0	0	0	261655	0	61262	32292	82858	0.1685	0.01
0	0	0	0	0	0	13520624	27245965	36171367	28805881	10574384	14701174	0.1746	0.26
64880770	76449838	73981216	286626142	160730353	281629235	118759798	132361832	116112791	109486908	142101888	80273678	0.1829	0.63
24888407	4352174	9950287	8694823	19050249	11015169	6733911	5137380	1563843	3441876	9482812	7333496	0.1819	0.35
106260439	111106693	198478081	130972283	112144218	206873363	142837437	133606138	146829234	107659678	139676756	36305464	0.1913	0.81
26428615	348019120	117438776	137548640	61480257	110669154	92990519	109419124	729780577	259822653	199359743	209183324	0.1968	0.61
1121495516	1052402946	917325793	1077568995	779538362	858634324	520185358	582807703	499381080	730788685	814012876	231036367	0.1880	0.71
109222768	89436904	106708732	77912323	95445751	127059675	121904126	51746382	123281783	75398715	97811716	24472341	0.1866	0.70
0	0	0	0	0	0	30161820	21366479	16352866	27715432	9559660	12857995	0.1939	2.80
8102716	11223279	19336175	14320947	9854608	19821248	14137490	13492258	11413860	18031783	13973436	4018708	0.1972	0.81
86800132	12230447	35314220	30715958	88511058	29863539	18586998	6305448	514818	1173668	31001629	32277129	0.1991	2.11
5740816	6131801	13208732	19354313	5824674	21037940	5099016	7783205	15559687	9771048	10951123	5972364	0.1864	0.33
29609328	10973365	41950546	18492738	13728358	18323788	9777704	28867353	23861280	1634003	19721846	11712442	0.1917	0.47
507232	437204	0	0	0	30402663	0	349979	2471415	0	3416849	9511701	0.1999	0.21
47853689	56067514	73641853	77075783	46081606	34464524	26919113	27237641	29238510	38884851	45746508	18302027	0.2127	0.80
840801	317275	521506	262380	6150129	4863100	12048854	1672976	0	539998	2721702	3898874	0.2012	0.30
106787233	54663279	126893579	116169567	73237433	37262818	43298099	20389575	9191317	43047573	63094047	41042825	0.2147	0.71
20519381	4377200	32718610	15740439	1267425	7849777	11390814	17090140	15301690	9669712	13592519	8966617	0.2053	0.52
426048	3888354	0	106833326	71697364	52905962	66833548	0	2072626	170291844	47494907	58004676	0.2078	0.40
100717665	47447946	133866961	39444402	75256515	42991066	22839259	18846028	14232660	27843125	52348563	39206359	0.2172	1.60
0	731036	772266	640057	0	2578293	1024958	128089	0	307432	618213	783699	0.2033	0.10
10471659	0	70734987	1526779	0	561189	459925	15799386	9723203	832668	11010980	21726557	0.2155	0.39
112624779	158251828	186721293	175156467	119380004	6818130	2158683	6792546	6283164	6610436	78079733	79400679	0.2134	1.82
48819782	39336030	51374483	62071909	46280255	59526311	34192732	33255311	40762549	50511910	46613127	9823205	0.2151	1.35
590152	736409	1173282	2812183	2082517	136936859	385039392	235612889	223067558	750876154	173892739	243520993	0.2142	0.33
10888537	12412351	1060040	5266253	12320964	54462170	18485422	19779450	8929600	38295061	18189985	16295362	0.2197	0.21
54333297	34065745	40100354	20986047	42814562	38901660	27071694	11481967	17544556	14795629	30209551	14034581	0.2303	0.68
9059576	3310413	8983966	8435599	6444878	15427888	13173254	10301510	4881880	16859500	9687846	4392537	0.2243	0.10
1153944	0	0	0	0	17398675	12723641	4629317	2924190	3283265	4211303	6049307	0.2270	0.02
459198057	3816288537	733664020	3399368838	4761687574	2822110620	572372339	2270113791	3884045132	1280136207	2399898512	1567635258	0.2439	1.45
258016559	222169420	183977120	242488833	194082765	210597421	124985882	113162620	109057384	140622498	179916050	54769418	0.2434	1.30
37176886	11965600	7160840	7476048	17480503	45503086	13853734	12796640	8367277	13931497	17571211	13084628	0.2396	0.53
31391707	17246996	32688626	27512010	23633343	21048919	18652157	14650889	9882228	19384937	21609181	7275267	0.2482	0.36
62254231	37277149	20217125	110704797	54367045	132327648	53069602	40943430	87002905	62962363	66112630	34502102	0.2538	0.60
71865251	159930931	74171828	161827300	120546325	124275933	103229031	91669927	84181056	78858443	107055603	33605007	0.2564	0.61
62787318	15802063	101953695	72597974	14242739	5788473	14942628	15641093	8155330	5327816	31723913	34305961	0.2723	1.83
40754545	6238155	14842983	13014448	24713885	14047762	10332016	6368387	3115041	7533911	14096113	11177454	0.2767	1.55
1588950	2652624	563716	1981385	1466347	1163110	1606808	1838127	2021287	1552494	1643485	553152	0.2629	0.14

Accession #	Protein	PEPTIDE	Xcorr	MZ	% Coverage	MW [kDa]
110347469	alpha-2-macroglobulin	LTNQTLGFSFAVEQDIPVKNLKPAPIK	3.1	743.4	48.7%	165.7
340745357	hemolytic complement-like 2	VGAPENVTVQAHGHTEAFDTTVSVK	6.0	865.8	31.6%	38.9
226958497	serum amyloid P	LIPHLEKPLQNFTLCFR	4.2	532.8	32.6%	26.2
366039991	androgen-binding protein	LFLNGTSEEYVEYVK	3.6	896.4	16.1%	10.1
8850219	haptoglobin	YVMLPVADQDKCVVHYENSTVPEKK	3.6	728.1	59.9%	38.7
148747546	serine protease inhibitor A3K	NLINDYVSNQTQGMIK	4.6	920.0	82.3%	46.6
161702988	apolipoprotein B	LPQQIHHYLNASDWER	4.0	670.0	23.8%	509.1
18252782	antithrombin-III	VTINNWVANK	2.3	580.3	67.3%	52.0
130503301	serine protease inhibitor A3N	YTGNASAMFILPDQGK	3.5	577.3	37.1%	46.7
110347469	alpha-2-macroglobulin	INVSYTGERPSSNMVIVDVK	4.6	742.4	48.7%	165.7
340745357	hemolytic complement-like 2	LEIVPIIYDNDSLFVQTDK	4.2	1112.6	31.6%	38.9
226531069	inter alpha-trypsin inhibitor, heavy chain 4	GLMLLLNDTQHFSNNVK	4.7	981.5	33.3%	104.5
274321952	thyroxine-binding globulin	VTTCHLPQQNATLYK	3.3	592.3	25.1%	48.0
7305235	leukemia inhibitory factor receptor 1	IEGLTNETYR	3.1	598.8	28.2%	122.5
6680684	protein AMBP	EDSCQLNYSEGPCLGMQER	3.6	764.0	22.6%	39.0
58037159	complement component C8 gamma chain 1	KPIGSTSPISTIQAQVNFSAQK	5.0	768.7	34.7%	22.5
31981720	protein Z-dependent protease inhibitor	LPYQGNATMLVVLMEK	4.2	920.5	43.1%	51.8
8850219	haptoglobin	NLFLNHSETASAKDITPTLTLYVGKNQLVEIEK	5.4	738.8	59.9%	38.7
8850219	haptoglobin	NQLVEIEKVVLHPNHSVVDIGLIK	6.8	899.2	59.9%	38.7
283483997	maltase-glucoamylase	DQDPASFGNNSLLLNSSR	4.9	968.9	22.4%	208.4
6679731	coagulation factor V	LLNHSLLLHK	3.7	396.9	21.4%	247.1
115430101	C4b-binding protein	LACLNGTVLR	3.0	530.8	35.2%	51.5
407228385	N-acetylmuramoyl-L-alanine amidase a	APSHNTTEPDPHSLSPELQALISEVAQHDVQNGR	7.8	736.2	18.3%	57.7
274321952	thyroxine-binding globulin	TLYETEVFSTDFSNVSAAQHK	4.8	792.7	25.1%	48.0
124249351	inter-alpha-trypsin inhibitor heavy chain H1	MKTEGEERANLSSQVLK	3.3	646.7	21.6%	101.0
161702988	apolipoprotein B	LSTSPFALNLTMLPK	3.3	825.4	23.8%	509.1
160358829	hemopexin	SWSTVGNCTAALR	3.6	712.3	54.1%	51.3
109627652	complement factor H	IQCVDGNWTTLPVCIEEER	4.7	1160.5	27.2%	141.2
16418335	leucine-rich alpha-2-glycoprotein	SLPPGLFSTSANLSTLVLR	4.8	987.6	18.7%	37.4
161702988	apolipoprotein B	KLSTSPFALNLTMLPK	4.5	593.7	23.8%	509.1
163914390	plasma protease C1 inhibitor	VGQLQLSHNLSFVIVVPVFPK	4.4	775.1	40.3%	55.5
160333372	lumican	LSHNELADSGVPGNSFNISSLLELDLSYNK	2.9	1079.5	48.5%	38.2
218156291	complement factor B	KIVLDPSGSMNIYLVLDGSDSIGSSNFTGAK	5.1	1068.5	16.7%	79.6
247269929	carboxylesterase 1C	NIQAVNEIIATLSQCNDTSSAAMVQCLR	5.3	781.9	48.2%	61.0
124487350	cholinesterase	DNDSLITR	2.2	467.7	5.6%	68.4
110347469	alpha-2-macroglobulin	SLGEVNFTATAEALQSPELCGNK	1.8	1191.1	48.7%	165.7
153945747	murinoglobulin-2	EVNSKLDNNGCSTQEVNITELQSK	3.4	884.4	24.6%	162.3
8850219	haptoglobin	KNLTSPVGVQPILNEHTFCAGLTK	6.7	857.1	59.9%	38.7
31982171	murinoglobulin-1	YLNETQQLTQK	3.1	683.8	43.6%	165.2
147904569	carboxypeptidase N	LQDLEITGSPVSNLSAHIFSNLSSLEK	5.8	967.8	28.3%	60.4
33563252	fibrinogen, alpha polypeptide 2	GLIDEANQDFTNRINK	2.3	617.0	50.6%	61.3
6679749	seprase	VQNVSVLSICDFR	2.1	769.4	18.3%	87.9
33859809	fibrinogen beta chain	YKGTAGNALMDGASQLVGENR	4.4	723.7	69.9%	54.7
112421031	vitamin K-dependent protein C 2	EILVHPNYTR	2.4	414.9	21.7%	51.8
13384648	biotinidase	FNDTEVLQR	2.9	561.8	27.8%	59.2
31981720	protein Z-dependent protease inhibitor	KYFDIEYVSINFQNSSQAR	3.9	770.7	43.1%	51.8
226874935	inter-alpha-trypsin inhibitor heavy chain H2	GAFISNFTMTVNGMTFTSSIK	3.2	763.0	27.8%	106.3
21313642	inhibitor of carbonic anhydrase	DLLFSDDTECLSNLQNK	4.5	1007.0	28.9%	76.7
226874935	inter-alpha-trypsin inhibitor heavy chain H2	KCPNCTETAVNGELVVMYDVNR	4.5	863.1	27.8%	106.3

Suplemental Table S1

WT 1	WT 2	WT 3	WT 4	WT 5	WT 6	WT 7	WT 8	WT 9	WT 10	AVG_WT	StdDev_WT
29472356	6027316	2240894	0	149968082	10144634	14464756	82621967	51666195	16550594	36315679	47485624
16220071	1312740	3077084	7765270	23123701	4219856	11074876	26539968	24725987	19962981	13802253	9539336
182209	1661937	407837	21494204	0	0	0	1441190	0	0	2518738	6696591
4220549	32046914	26877740	5424959	90310600	464638	1032576	7606035	1768644	649629	17040228	28110211
42241424	9869108	0	2353775	436338	0	0	563173836	15432521	0	63350700	176117791
0	142412018	160493923	111049320	88411553	59764828	4774519	1796326	0	0	56870249	64501199
4289830	0	0	714777	789212	3478352	7506634	95909676	26440411	6175378	14530427	29650835
175870	0	2267845	1763514	16654443	12698792	2286821	25951260	23768958	16986983	10255449	10151026
76807704	80566932	35886090	13484364	20315750	18030295	17197517	152119566	22459321	18312925	45518046	44913362
4988507251	134891976	538691364	88170316	191686578	2639119993	7196624903	16369079229	10049316511	8629920352	5082600847	5467857590
1314838	152424	12601038	154280	186289468	794335	591202	4787477	1264755	1018113	20896793	58237164
0	26264528	0	965777	0	1132136	0	0	0	0	2836244	8243496
145587320	32194771	21450964	16911044	19144499	11149950	31975727	200162716	57885109	37411344	57387344	63573154
259706820	150006392	216911094	135826719	370402696	492159713	692180378	769156760	895136319	317616826	429910372	270699548
107697284	61667476	38552912	15663004	29393842	42421956	75468940	281887315	95634107	24364079	77275091	78157940
33080873	1395489	0	2141101	33881376	8411209	11676131	59894486	18235102	11075253	17979102	19049504
4558441	15592	4361028	141642426	0	0	1231150	2058214	0	880434	15474728	44364939
19391525	55287809	0	0	0	0	190625	53817215	879875	0	12956705	22733026
145078278	80562596	26711456	5895621	11126267	2100894	6826183	635701030	20181609	1056593	93524053	195935883
39215692	10509248	4904596	7983981	31919097	72847764	39069151	68004456	61596857	57389048	39343989	25431662
48622511	4279642	195752820	12624967	30864623	20257423	20129158	104216832	49549922	24697994	51099589	58160549
17298903	14319762	41211241	18287123	121456393	91497070	55784555	70008962	99949016	71342411	60115544	37437938
51496102	4341549	3528186	0	497228382	1996850	1324944	50643229	41033725	8758404	66035137	152986481
358383413	34461829	85426135	350343	161801458	132252469	57911627	474544136	161841878	79993548	154696684	149970915
17823294	4617921	6774373	2299204	4801084	9240780	8940353	21864188	10074009	1144430	8757964	6602732
210379644	209520371	1396283558	0	306581	217575126	143200354	468446339	147774476	106777143	290026359	410574024
77581018	119484491	167763782	91650589	423198355	315678555	343986439	3536394622	1572605715	452982032	710132560	1085019314
1342313	0	449015	0	0	1456836	3022949	109966798	45425950	9106701	17077056	35490454
327335	738195	946079	359513961	59539	117859	71211	3405270	14401	8235	36520209	113493122
22046698	1334919	5855180	1360749	6304011	27447669	16462036	43095652	17210904	11599364	15271718	13097198
0	290335	0	0	77914915	133412	0	0	436005	0	7877467	24609125
0	0	72097	273955	37326322	0	101246	0	185482	87263	3804637	11778673
0	2227396	0	0	3609829	0	0	6680798	2462942	2508573	1748954	2221007
0	0	0	0	68024325	0	191877	1129631	196487	56278	6959860	21458661
1246370331	546190241	1020580415	587696639	2947052989	2410364010	3743355885	3925781934	3764570490	2552689504	2274465244	1338094864
0	875125	706625	0	0	0	0	1372274	431727	0	338575	493103
8099019	8156020	883009	5675904	114989157	27380526	4610135	0	347458	4055460	17419669	35183143
42105842	0	3389337	14702578	0	0	0	206435110	6349324	0	27298219	64294804
10871255356	1008991244	3170437815	2449154491	4843683998	4717860949	8734767127	4165797953	13677534003	9005088006	6264457094	4087299102
134645769	131488258	42613706	1204217	3863720	33661005	78502459	227219962	159804475	101141032	91414460	73315532
10835213	357153	10526882	6878352	3794784	26196768	18772254	99603697	11348012	1353846	18966696	29406870
29543388	1104738	5879597	8429226	7752650	22790978	15554301	70991224	50820148	31594107	24446036	22225272
214578486	67170928	69315827	10736422	17217785	133764333	66479102	209325313	99842970	87264236	97569540	70148442
43433426	20200272	24560838	8761887	27399555	19476270	21497795	57656159	28075788	17554285	26861628	14031314
67265769	53310486	45149503	21842456	42432710	38488510	58977641	110285139	52594326	56843008	54718955	23240259
5876535	0	0	5494	5513644	3023919	3558281	42657150	5039861	1530624	6720551	12834229
50595316	23529807	6845583	1788662	19237359	30343522	26856280	96047981	79287780	37739697	37227199	30282141
346945340	26617659	224236784	0	102257284	336738449	190285691	452056124	347627936	271628511	229839378	149866702
25802060	0	2733944	0	2548881	19740546	16410971	58590902	43470489	26998840	19629663	19824240

Suplemental Table S1

Null 1	Null 2	Null 3	Null 4	Null 5	Null 6	Null 7	Null 8	Null 9	Null 10	AVG_Null	StdDev_Null	p value	Null/WT
31549262	5973611	24484428	11946856	30412755	33423709	20204896	11224602	3864434	13641877	18672643	10872610	0.2671	0.51
21076886	4946809	20179941	17204565	21501153	18575971	26139738	102444651	5230089	8076241	24537604	28341432	0.2712	1.78
0	0	196069	0	0	69836	249831	177702	62157	269238	102483	109868	0.2689	0.04
8407609	0	3221724	3262164	40227182	2544699	0	1654634	2276313	617119	6221144	12191457	0.2788	0.37
0	0	393402	0	0	639513	262912	1260913	0	0	255674	417542	0.2721	0.00
8681591	0	600965	13178342	143351738	38840386	42802143	0	2661799	49374084	29949105	44240650	0.2908	0.53
11237228	1426574	6266269	5228042	1449337	3021687	2226333	2723865	4844158	2981214	4140471	2970871	0.2847	0.28
20164034	1886291	7768718	8742354	3108247	1074126	7566033	6836662	1738635	4034435	6291953	5628702	0.2945	0.61
17501063	14723596	15023964	21105959	10327555	43058144	35742086	46649030	22417488	63879791	29042868	17501851	0.2940	0.64
6593657342	6565342841	#########	8747713768	8099528970	5590834335	5675420207	5399631924	5937899219	6330264515	7063343001	1957349689	0.2950	1.39
2568844	713499	605028	156273	1629029	674419	432968	597002	395216	594751	836703	719582	0.2904	0.04
0	0	0	0	0	0	0	0	0	0	0	0	0.2909	0.00
34034266	19699475	82884148	48513553	31020774	28991997	12786969	32530432	18672951	38142398	34727696	19826189	0.2961	0.61
304053309	731483252	310995136	1030675256	715537240	456854891	211072821	1073016697	752537722	147163603	573338993	333990397	0.3054	1.33
23428326	68302300	69705187	75063694	39176681	23561344	64328126	25176590	47860609	63943447	50054630	20800966	0.3013	0.65
63478967	15444707	59745883	36066491	36248209	21853172	9405092	15507912	6253045	8629623	27263310	20922119	0.3132	1.52
0	0	705143	65396	762765	0	289689	2468042	86887	525878	490380	755560	0.2997	0.03
0	0	0	208702	0	1668056	16926754	10932173	7559997	13226472	5052215	6546396	0.3047	0.39
876939	0	8233071	894369	3707830	17160665	90313098	55181176	54510220	43198442	27407581	31454943	0.3060	0.29
33086534	37765907	40939155	36951598	26056185	36317232	22759466	21657245	23172504	27362231	30606806	7189531	0.3097	0.78
27534997	21325275	31785633	37291118	22988221	38715349	22435190	20834207	47144290	45018610	31507289	10004458	0.3077	0.62
33864041	76190965	67827257	68392562	53640137	17535315	11269400	54602547	40095434	36442070	45985973	21887785	0.3165	0.76
38166916	5967665	6998707	24298087	20051172	29769986	14548603	5913173	2280871	1906635	14990181	12598133	0.3069	0.23
78591189	106491495	193469947	161998289	91639736	87782441	62662518	110678609	41280343	101836199	103643077	44878637	0.3160	0.67
6853122	1288662	3753412	15368002	3692784	6419016	3655695	6687346	8463490	7089210	6327074	3849727	0.3279	0.72
128567263	99503406	157175971	176226091	109906401	212067401	161871458	158766682	161650530	197057873	156279308	35562304	0.3184	0.54
537272055	119766490	613204767	477521542	94183792	168779608	130473366	413134307	335911807	652178264	354242600	214840410	0.3224	0.50
8986572	239941	20320630	5013672	3287403	2816758	6470278	2595013	2626259	2733752	5509028	5745505	0.3224	0.32
159351	28067	123719	67590	130094	161305	137543	125313	62568	136623	113217	44746	0.3238	0.00
16615921	5368595	32143810	19557933	15339323	25019471	14859150	19987080	24839433	26113980	19984470	7508081	0.3366	1.31
0	73873	0	0	0	235821	180912	86080	0	61320	63801	84500	0.3287	0.01
0	0	278921	0	0	236518	0	76166	27959	60639	68020	104206	0.3291	0.02
4447707	372229	39282557	3943717	3101827	1960184	1481933	284950	0	806756	5568186	11948676	0.3335	3.18
838209	172149	0	173496	212758	0	78561	586754	0	0	206193	285364	0.3328	0.03
1821953379	3365315111	2205397738	4413313978	2192690890	2804829486	1660142861	3214700104	3433793417	2456494830	2756863179	854639001	0.3494	1.21
2101309	0	17461568	337160	0	0	0	0	440623	0	2034066	5459502	0.3410	6.01
988221	1244686	1148872	0	22103082	1733090	3138913	262399	10182975	22061923	6286416	8822625	0.3446	0.36
0	0	0	0	0	31696012	17700666	10249451	2750502	10586893	7298352	10593447	0.3446	0.27
#########	6357890013	#########	10987499580	#########	6833925725	5427015618	5185525492	3813762109	3654820654	7945807608	3868980055	0.3573	1.27
196363786	53443399	164747519	127650548	186936720	144964323	129932664	71430073	36665169	76769815	118890402	56455242	0.3602	1.30
4072758	1610757	547177	6053255	38876419	22434945	5655117	5773468	5773757	3801083	9459873	11967695	0.3562	0.50
15612751	17165474	34973373	16411463	14283410	17252262	13830303	14656571	15504425	16248437	17593847	6214656	0.3602	0.72
87928741	37897682	102358731	39926555	64474006	154982089	55883635	67161365	66322331	71597367	74853250	34227760	0.3696	0.77
30271190	37663445	34110853	20483916	26091634	15837582	16773720	14329216	17561708	7268416	22039168	9662653	0.3825	0.82
64942248	58887944	54180805	52933747	36437616	42639784	31047689	50944721	41235421	41308632	47455861	10615383	0.3806	0.87
2669420	656384	6688787	344215	4446099	6073679	5264513	893918	1299629	1505356	2984200	2414935	0.3776	0.44
41019027	20421711	11929673	33458844	27359635	47756981	39650250	19186885	13302081	25746022	27983111	12203069	0.3824	0.75
363890527	312500038	451770489	370995613	302576962	251090820	184945186	197432608	161353261	194486885	279104239	96872737	0.3942	1.21
30485823	10891726	18629479	20579998	12103030	7643609	8198677	9795205	8242895	11541150	13811159	7305581	0.3953	0.70

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Accession #	Protein	PEPTIDE	Xcorr	MZ	% Coverage	MW [kDa]
100815972	gamma-glutamyl hydrolase	SINGVLLPGGGANLTDSGYSR	1.7	1025.0	26.2%	35.4
237757324	complement factor H-related protein C	EFQHNSTMYYK	2.2	732.8	22.8%	92.8
6755600	extracellular superoxide dismutase [Cu-Zn]	LEAYFSLEGFPAEQNASNR	4.0	1072.5	11.2%	27.4
12963497	kininogen-1 2	HSIEHFNNNTDHSHLFTLR	7.3	464.8	45.1%	47.9
144226209	fetuin-B	VLYLPAYNCTLRPVSK	4.4	632.3	9.7%	33.9
13507644	carboxypeptidase N catalytic chain	IHILPSMNPDGYEVAAAQGPNMSGYLVGR	3.7	1031.2	30.2%	51.8
188219651	hepatocyte growth factor activator	DSITVVLGQHFFNR	4.4	545.6	12.9%	70.5
13507644	carboxypeptidase N catalytic chain	IHILPSMNPDGYEVAAAQGPNMSGYLVGR	6.1	1030.8	30.2%	51.8
225735645	sulfated glycoprotein 1	TVVTEAGNLLKDNATQEEILHYLEK	3.1	708.6	31.2%	61.4
110347469	alpha-2-macroglobulin	SLGEVNFTATAEALQSPELCGNKLTEVPALVHK	4.7	882.7	48.7%	165.7
247269929	carboxylesterase 1C	EGASEEETNLSK	3.3	647.8	48.2%	61.0
84370359	noelin d	VQNMSQSIEVLDR	3.3	768.9	20.8%	14.5
47059073	thrombospondin-1	VVNSTTGPGEHLR	3.5	456.6	24.0%	129.6
6679731	coagulation factor V	SSSYHENDMENPQSNITMVYLLPLGPK	4.1	1033.8	21.4%	247.1
247269929	carboxylesterase 1C	KNIQAVNEIIATLSQCNDTSSAAMVQCLR	4.0	1084.9	48.2%	61.0
87299635	attractin	IDSTGNVTNELR	2.5	660.3	3.2%	158.0
18252782	antithrombin-III	VTINNWVANKTEGR	4.0	534.9	67.3%	52.0
147904569	carboxypeptidase N	LQDLEITGSPVSNLSAHIFSNLSSLEK	4.7	968.2	28.3%	60.4
161702988	apolipoprotein B	LTYESGFLNYSKFEVESK	4.6	714.7	23.8%	509.1
110347564	ceruloplasmin b	ELHHLQEQNVSNVFLDKEEFFIGSK	9.6	996.8	29.7%	121.1
13384648	biotinidase	GHLIIAQVATNPQGLTGTGNTTSEMDPSHR	5.9	781.1	27.8%	59.2
110347406	complement factor I	FNVSLIYGR	2.9	535.3	32.0%	67.2
159110717	inter-alpha-trypsin inhibitor heavy chain H3	ENITAEALDLSLK	3.5	709.4	18.0%	99.3
6755112	phospholipid transfer protein	FQIYSNQSALESLALIPLQAPLK	4.3	849.1	23.7%	54.4
31982171	murinoglobulin-1	EVNSQLDNNGCSTQEVNITELQSK	5.5	1355.1	43.6%	165.2
153945747	murinoglobulin-2	EVNSKLDNNGCSTQEVNITELQSK	5.0	1355.1	24.6%	162.3
236465805	plasma kallikrein	GSNFNISK	2.2	434.2	34.3%	71.3
6754132	H-2 class I histocompatibility antigen	TLLGYYNQSESGSHTIQWMYGCK	3.4	914.1	60.9%	37.2
18252782	antithrombin-III	LGACNDTLK	2.7	496.7	67.3%	52.0
168229262	serine (or cysteine) peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin)	LLNDYVSNQTQGMIK	3.6	870.9	30.2%	47.3
160333710	serine protease inhibitor A3M	LINDYVSNQTQGMIK	3.6	870.9	77.3%	47.0
85719301	carcinoembryonic antigen-related cell adhesion molecule 1	TLTLLNVTR	2.5	516.3	26.0%	50.0
84042523	lysosomal protective protein b	LDPPCTNTTAPSNYLNNPYVR	2.6	803.4	15.2%	53.8
226958456	histidine-rich glycoprotein	LQEGALPQLPPGYPPHSGANR	3.2	734.0	31.9%	60.4
113461998	angiotensinogen	VYIHPFHLLYHNK	2.8	421.5	5.0%	52.6
31982171	murinoglobulin-1	ELIFYYLVMAQGSIIQTGNHTHQVEPGEAPVK	8.0	1196.3	43.6%	165.2
226531069	inter alpha-trypsin inhibitor, heavy chain 4	VSGQMHMQNITFQTEASVAQQEK	5.2	875.7	33.3%	104.5
110347469	alpha-2-macroglobulin	VVSVDISFRPLNETFPVVYIETPK	5.0	1375.7	48.7%	165.7
111378397	phosphatidylinositol-glycan-specific phospholipase D	KNLNYTER	2.7	519.8	27.3%	93.6
218931167	procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 1	EAFNITLDHKCK	1.7	710.4	3.6%	86.8
160415217	zinc-alpha-2-glycoprotein	YLNYSR	1.8	408.7	37.8%	35.3
124249351	inter-alpha-trypsin inhibitor heavy chain H1	ANLSSQVLK	2.5	480.8	21.6%	101.0
254553376	coiled-coil domain-containing protein 105	NEVDIQNQQQEISNR	1.8	908.9	7.8%	57.3
6755112	phospholipid transfer protein	GHFYYNISDVR	3.1	457.9	23.7%	54.4
22122667	complement component C8 alpha chain	VQGGSSVWGSVLTHNSSAITYQSWGR	3.5	922.8	6.8%	66.0
226531069	inter alpha-trypsin inhibitor, heavy chain 4	ISASGAELEALEAQVLNLSLK	6.2	719.7	33.3%	104.5
110347469	alpha-2-macroglobulin	LTNQTLGFSFAVEQDIPVK	5.5	1054.5	48.7%	165.7

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WT 1	WT 2	WT 3	WT 4	WT 5	WT 6	WT 7	WT 8	WT 9	WT 10	AVG_WT	StdDev_WT
26740109	12867338	11867078	53117	6021678	34497300	24891126	89627082	43313544	37533746	28741212	25657165
32598072	62059398	63544639	21984979	54891318	43103553	26449937	52836714	22936600	25390502	40579571	16671011
6423091	7233377	5159789	16550329	26783437	4957460	6934795	32412614	12399831	13347814	13220254	9538701
3209166439	783956796	674051649	567750758	878939808	2018155556	1949272147	8252718232	5329955743	1402323235	2506629036	2494117047
1242960416	56430865	73744317	115463057	326119656	2391525284	1431243275	2623197255	3285103461	2623488053	1416927564	1243651900
81478670	559806	260320	2533102	2931180	90385672	71483509	83339196	140315144	117013503	59030010	53139361
14595760	0	4184091	256268	2865748	13690522	19735069	41800546	41872941	39887378	17888832	17343756
55314155	222418	274961	1465904	945928	55070992	38623452	62552213	86714496	60992613	36217713	32698053
8966800	13810216	36360995	0	561296	8435296	4638132	12595505	18857497	6203675	11042941	10643209
6197930	0	2046229	0	64320817	118786	132125	673770	13056126	6936544	9348233	19790396
41960889	20620775	26074747	12683525	41635625	118204748	77427032	86193096	98101029	81216519	60411798	36333120
7802595	3225873	11509997	711811	15061881	22654943	14782583	15441323	19648968	23065323	13390530	7647567
7563523	12252572	7444005	1741574	2024203	27645353	21292345	17985799	6548911	2072990	10657128	8959392
88611448	4114079	45084180	0	80556731	99166367	52385698	145016343	82310412	67262784	66450804	43641273
437068	409860	0	0	8436049	2607669	867737	2727136	3249177	1597253	2033195	2544835
686087	4164105	2605061	3774025	32083516	16179830	4949523	1707448	655607	7540852	7434606	9786344
8952433	0	2929544	353136	8396581	12458389	8412376	48480707	38409895	13978010	14237107	16259926
197129669	116895512	33411400	56372	1985481	17400988	59906565	201548524	181845714	87959928	89814015	80482967
58723066	278647	0	754491	39155100	87431662	46824910	516456635	100125929	55955075	90570552	153721398
234806156	126281129	40992797	0	57762851	113475687	69103627	416089736	226886130	102704457	138810257	123028077
34331154	5779007	9099283	4922202	0	17660906	80567028	165960427	56868006	69237675	44442569	51576560
484716967	59962735	128836910	8227803	329291288	402798088	466435166	832405156	686143047	374576658	377339382	263228194
51521877	233550	23740616	448440	6815698	35415188	38403279	263490344	41502524	27190206	48876172	77455366
17349802	11106000	2386985	4846	44782	10938625	19883751	37738122	34666638	29760001	16387955	14027846
96146885	40409970	105910055	40263466	129357531	159112804	58150966	143513597	100437842	90852110	96415523	40995331
96146885	40409970	105910055	40263466	129357531	159112804	58150966	143513597	100437842	90852110	96415523	40995331
209553732	108427704	143598840	73966555	239081850	357092662	230955057	361326130	351687289	312023033	238771285	106070301
1305210	247070	0	4356430	18422341	10912264	8144123	31050371	33009540	11993679	11944103	12094616
1098092016	913698343	901335945	393827943	1146144641	1675685110	1313912601	1883441375	1481756896	1223759822	1203165469	424337873
799801445	353270798	335538712	91378964	95683894	279829257	629669333	1337467180	763399624	372998309	505903752	383072573
799801445	353270798	335538712	91378964	95683894	279829257	629669333	1337467180	763399624	372998309	505903752	383072573
16051024	2308441	9609909	1415615	18716702	22548891	16205240	33819088	20913717	14783927	15637255	9621371
497270130	114681628	437271482	148138965	29770713	229493213	296610733	1974577257	2000282703	418062633	614615946	738801380
17248574	201473	0	3117907	16976051	28134740	20165991	34487305	45203883	30643405	19617933	15336387
15408469	0	0	59977	0	7253826	7164819	15340568	19629121	4551276	6940806	7460852
57076026	19343463	2686222	0	0	11977827	10757231	120443525	81511093	26918745	33071413	40601561
1623266469	988278574	535004206	306620439	483306563	291403261	1005363125	4218159691	1193143930	579205232	1122375149	1167898057
2200420	1131287	4461945	0	0	3576964	0	0	0	162840	1153346	1684892
9273446	7365831	7771916	2845722	10280017	20784543	18489808	20083141	18894557	14688516	13047750	6341693
294382	105838388	126095149	115801558	143888988	129086565	61676540	1243642	623634	50090888	73463973	57950836
213863764	132157973	195034549	82818660	226839572	260157213	194128138	386286188	318218137	203977173	221348137	86320500
84863952	44841610	43099143	102985348	564462152	517350975	644080567	52890293	453025688	464030487	297163021	250129043
0	9725342	13590132	1761392	40586421	3702700	753219	0	0	7510432	7762964	12461861
65736880	9085750	9698282	7519037	14817906	53853468	92708624	94470629	110440835	98512950	55684436	42279823
0	95580	0	987600	1634167	631959	185624	32939872	2505309	192146	3917226	10230623
353332132	2205525952	722523740	0	33505466	196709569	144397712	136918539	361244074	168840733	432299792	656659637
2611285971	663961417	953447682	0	722516693	1213460828	1618137808	6072118559	4390109330	2835315340	2108035363	1901057457

Null 1	Null 2	Null 3	Null 4	Null 5	Null 6	Null 7	Null 8	Null 9	Null 10	AVG_Null	StdDev_Null	p value	Null/WT
22557336	22093716	33885743	22536150	23518019	19192967	18250322	18596429	18578506	15847173	21505636	4998065	0.3929	0.75
41660192	44974872	50757858	64270329	36978788	28483648	18386269	18452191	16240582	22863093	34306782	16122992	0.4036	0.85
7567773	13877444	20482024	4721296	6044771	18087629	9833380	9523453	3969494	8216133	10232340	5567821	0.4035	0.77
1077328603	1484891747	1703466551	4097946093	2408499821	1846832424	1688670371	790848368	1780233288	960691480	1783940875	943805493	0.4027	0.71
1947992932	1970120929	1633494072	2162699201	1533241270	2220062777	1153059505	1693884625	1528098519	1775141907	1761779574	324459163	0.4073	1.24
92327958	54753178	103373886	57218745	78468930	102411212	69160153	68483851	63051321	51912621	74116185	19262517	0.4097	1.26
25319900	8286974	29431177	15748331	29672686	43500468	24786242	23140418	9051734	23242836	23218077	10424030	0.4159	1.30
55852432	34675001	58016121	35816217	56134992	61839150	39698950	46476826	34691347	30460473	45366151	11701352	0.4157	1.25
8844242	5845427	8716271	8094486	7441657	13006069	9028318	6441923	4808549	9442401	8166934	2278441	0.4143	0.74
2764706	6720054	5257631	6661153	750871	4229624	5838381	2010299	3019572	3695085	4094738	2013858	0.4146	0.44
37120394	43836157	55126285	52925885	34355692	64599179	50678273	57153463	49729383	59872659	50539737	9677343	0.4173	0.84
8288274	15540186	15032215	18194646	9890839	7424552	6817737	10784710	8359391	11469364	11180191	3864491	0.4253	0.83
1876606	9635880	32202548	7827964	2772177	5053093	4281217	2510427	4466568	3509259	7413574	9037927	0.4308	0.70
73044070	75183710	98817421	101251159	73260352	88057146	59270333	64400439	71868872	75795547	78094905	13776765	0.4315	1.18
7204511	327649	17588211	2105805	2902410	2871318	143497	670881	294872	1243636	3535279	5370523	0.4346	1.74
2240667	8029324	4876778	7924242	8269701	4154988	4632659	4290522	1951871	2401815	4877257	2433365	0.4330	0.66
37228733	810295	9934099	9833982	3483546	7518244	4975833	2388105	4082292	13856093	9411122	10562586	0.4415	0.66
206646350	41426616	106491898	92636961	251047788	170521593	144475217	77932551	24576119	49225937	116498103	75055005	0.4532	1.30
28899030	821778	77507489	52001926	14265679	98208025	90243973	73588747	43161387	39716278	51841431	32523483	0.4458	0.57
173567588	70894943	136442365	131605434	131316733	157661544	102244665	67186454	39122410	58724971	106876711	45838388	0.4518	0.77
3508224	36622205	60057669	85423866	59222537	67660009	54929317	76732633	52486634	84850282	58149338	24469775	0.4575	1.31
448510237	268368707	560472615	394440497	479954937	680487416	445867688	424897912	343794340	410663608	445745796	113332428	0.4601	1.18
23916098	19650670	17601815	26877181	29763359	45623438	33495603	41789571	25810649	36461596	30098998	9202387	0.4564	0.62
34705280	12003699	25201485	28992666	38783206	18530896	18642235	10478640	5842738	12153968	20533481	11028845	0.4720	1.25
124917218	177028706	95361641	240338758	132403646	72411449	84610178	61193037	69840420	70119612	112822466	57718670	0.4731	1.17
124917218	177028706	95361641	240338758	132403646	72411449	84610178	61193037	69840420	70119612	112822466	57718670	0.4731	1.17
212818070	299817102	424149974	339435270	221180740	279924275	205077272	212832437	222317971	265407347	268296046	70689336	0.4733	1.12
27786023	5483268	22522256	7139627	3487552	4299328	2704752	4471067	4040138	2893283	8482729	8965587	0.4766	0.71
1043615431	1381126069	1569924599	1594769192	1058480889	785169795	872799966	810947395	831771221	866966281	1081557084	317402637	0.4774	0.90
582835836	411820497	720366371	648611093	561285989	621935788	600904651	542418764	603854865	665184871	595921873	82966675	0.4770	1.18
582835836	411820497	720366371	648611093	561285989	621935788	600904651	542418764	603854865	665184871	595921873	82966675	0.4770	1.18
17441420	21509664	25949535	26052509	16053112	15932029	13374387	14611491	15499571	14261754	18068547	4735124	0.4826	1.16
1050735579	467410965	657287403	60913737	523102551	232927899	295335308	186484456	200556014	673050566	434780448	300189933	0.4849	0.71
18104461	5703071	22642520	15586633	16808089	26763902	10521806	12993149	11811313	18895919	15983086	6112323	0.4952	0.81
10376917	4280992	7645601	4036257	5837929	22981270	13911558	5984481	6502606	8356074	8991368	5734693	0.4996	1.30
215232791	22723784	65782568	46562996	73882347	35996239	17634669	8039054	2597963	4984174	49343658	63377657	0.5029	1.49
561250870	451729735	991510244	571341138	439584564	1696767595	787342314	1040685319	570779870	1409793035	852078468	429043272	0.5008	0.76
3787896	83262	1461250	386530	7955392	1942547	1245860	950028	47551	0	1786032	2455366	0.5102	1.55
6667670	7906511	21946358	14821857	7839435	15437509	4607984	12661281	7286888	13751001	11292649	5339218	0.5117	0.87
77702659	49240727	26097663	114538815	82342063	36498019	44127210	54705003	81221195	30891062	59736442	28247842	0.5093	0.81
222707424	286743079	389985857	279043398	229525189	234625210	187075392	191092189	201119413	214228770	243614592	61355879	0.5146	1.10
525394750	211110803	452105452	665362985	599239579	437413319	153598094	235489538	208425930	138948593	362708904	195604881	0.5222	1.22
0	0	0	0	18671831	2742226	1224403	2884924	3794846	18323575	4764180	7372314	0.5208	0.61
63652011	63563897	103631874	62141241	76526548	81664802	40237241	44104226	45134006	71430518	65208636	19437799	0.5257	1.17
2823973	4796440	8000012	0	0	0	0	996632	175148	607992	1740020	2710018	0.5236	0.44
233915796	169163215	269651646	290147592	128147824	422198878	303831588	365196049	227798225	548108843	295815965	123751747	0.5265	0.68
3691726960	1571170856	3963366586	3630627552	4045414678	2368481477	2123736200	1586051654	750708561	1758735460	2549001998	1186528949	0.5416	1.21

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Accession #	Protein	PEPTIDE	Xcorr	MZ	% Coverage	MW [kDa]
109627652	complement factor H	DNSCVDPPHVPNATIVTR	4.5	665.0	27.2%	141.2
283483997	maltase-glucoamylase	FSVNQTTLLTHEK	3.4	759.9	22.4%	208.4
6678085	alpha-1-antitrypsin 1-4	GDTHTQILEGLQFNLTQTSEADIHK	8.5	1399.7	81.4%	46.0
6679731	coagulation factor V	DIHVVHFHGQTLLDNR	2.1	476.2	21.4%	247.1
247269929	carboxylesterase 1C	FHSELNISESMIPAVIEQYLR	5.9	831.8	48.2%	61.0
407228385	N-acetylmuramoyl-L-alanine amidase a	GFGVAFVGNYTGSLPNEAALNTVR	5.9	1228.1	18.3%	57.7
115430101	C4b-binding protein	LACLNGTVLR	3.2	559.3	35.2%	51.5
110347564	ceruloplasmin b	ELHHLQEQNVSNVFLDK	6.9	684.3	29.7%	121.1
110347469	alpha-2-macroglobulin	SLGEVNFTATAEALQSPELCGNK	4.2	1219.6	48.7%	165.7
449083339	fibronectin	ESNPLTAQQTTKLDAPTNLQFVNETDR	4.9	1011.8	22.5%	260.0
111378397	phosphatidylinositol-glycan-specific phospholipase D	THWTPFLNASIHYIR	4.4	465.2	27.3%	93.6
6754330	interleukin-1 receptor type 2	LLISNTSMDDAGYYR	2.0	868.4	7.8%	45.6
170172530	immunoglobulin J chain	IVVPLNNRENISDPTSPLR	3.7	712.4	49.7%	18.0
161702988	apolipoprotein B	LTYESGFLNYSK	3.0	712.3	23.8%	509.1
6680856	corticosteroid-binding globulin	LPFSPENTREEDFYVNETSTVK	3.9	1302.6	42.8%	44.7
163914390	plasma protease C1 inhibitor	GVTSVSQIFHSPDLAIRDTYVNASQSLYGSSPR	4.9	889.4	40.3%	55.5
159110717	inter-alpha-trypsin inhibitor heavy chain H3	GDEKENITAEALDLSLK	4.9	924.0	18.0%	99.3
236465805	plasma kallikrein	LQTPLNYTEFQKPICLPSK	5.0	760.1	34.3%	71.3
167555029	fibrinogen	MDGSLNFNR	3.1	535.7	42.3%	87.4
6753332	CD14	NPSPDELPQVGNLSLK	2.2	854.9	12.8%	39.2
86262151	rho GTPase-activating protein 5	VSGNKTDQDNIQK	2.6	483.2	9.3%	172.4
115430101	C4b-binding protein	LVGSPFIGCTVVNK	3.8	746.4	35.2%	51.5
168229262	serine (or cysteine) peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin)	EARKLLNDYVSNQTQGMIK	2.0	1113.6	30.2%	47.3
345110552	complement component C7	VDNDFNYEFYNSSWSYIK	3.9	1147.0	17.4%	93.3
126723423	macrophage colony-stimulating factor 1 receptor	CDEAQALQVWNDTHPEVLSQKPFDK	2.3	986.1	16.5%	109.1
6680856	corticosteroid-binding globulin	GSTQYLENLGFNMSK	3.5	569.3	42.8%	44.7
31982712	carboxypeptidase B2	IPFNVLMNNVEDLIEQQTFNDTVSPR	5.6	1017.5	25.1%	48.8
126722834	tenascin	EPEIGNLNVSDVTPK	2.0	807.4	3.8%	221.7
111378397	phosphatidylinositol-glycan-specific phospholipase D	NLNYTER	2.1	455.7	27.3%	93.6
148277039	alpha-2-macroglobulin-P	GNQSLFTDLVVDK	3.3	718.9	18.3%	164.2
148747546	serine protease inhibitor A3K	EMDIVFHEHQDNGTQDDSLTLASVNTDFAFSLYK	6.8	976.9	82.3%	46.6
283483997	maltase-glucoamylase	LVIILDPAISNNSFSSNPYGPYDR	3.4	885.4	22.4%	208.4
38490561	cadherin-5	NEDSNFTLINNHDNTANITVK	4.3	793.0	14.3%	87.8
224967112	coagulation factor XIII B chain	KEQETCLAPELEHGNYSTTQR	6.3	624.0	29.2%	76.1
41235784	kininogen 2 1	HAIEYFNNNTGHSHLFALR	5.8	561.3	14.0%	71.2
6679731	coagulation factor V	VSTVTLVSATSTTANMTMSPEGR	3.6	792.4	21.4%	247.1
261823995	serum paraoxonase/arylesterase 1	HANWTLTPLK	2.9	591.3	22.3%	39.5
124486702	alpha-1B-glycoprotein	FSLGAITSNNSGIYR	4.0	800.9	29.7%	56.5
6753798	prothrombin	YPHKPEINSTTHPGADLK	3.7	502.3	31.7%	70.2
54112422	mannan-binding lectin serine protease 2 1	VLATLCGQESTDTEQAPGNDTFYSLGPSLK	4.7	1067.5	16.9%	75.5
163914390	plasma protease C1 inhibitor	DTYVNASQSLYGSSPR	4.4	873.4	40.3%	55.5
218156291	complement factor B	SPFYNLSDQISFQCYDGYVLR	4.8	1287.6	16.7%	79.6
160358795	interferon alpha/beta receptor 2 b	VNNVTGNFTFVLR	3.4	741.9	18.6%	27.7
19527078	fibrinogen gamma chain	TLEDILFRAENR	2.9	493.3	41.7%	49.4
124486702	alpha-1B-glycoprotein	LLFVGPQHAGNYSCR	4.6	573.9	29.7%	56.5
6679731	coagulation factor V	NLIGLDENFVLNSSTEHR	4.5	687.3	21.4%	247.1
226958456	histidine-rich glycoprotein	LPPLNIGEVLTLPEANFPSFSLPNCNR	4.3	1004.2	31.9%	60.4
170295832	extracellular matrix protein 1	NVALVAGDTGNATGLGEQGPTR	5.1	1050.0	31.7%	62.8

Suplemental Table S1

WT 1	WT 2	WT 3	WT 4	WT 5	WT 6	WT 7	WT 8	WT 9	WT 10	AVG_WT	StdDev_WT
1992863815	894692782	448832934	562679948	64602528	521973340	1376136011	4506730233	1837829182	1395265280	1360160605	1273448993
8527528	0	10761084	625111	1741548	27122239	12078713	16469269	25025289	27681150	13003193	10782559
165715596	232699269	100626191	0	96358535	67894299	130564578	228765785	504984761	85036967	161264598	140313112
15278038	2841194	1863766	899471	15108753	6360636	29971160	23002989	13970365	18565817	12786219	9700517
4525271	1125054	726294	40717	8907961	1000727	4865198	10510237	19284754	9788219	6077443	6102088
16584732	5391487	4736758	0	57335693	6241770	9089468	28575850	23046621	13208103	16421048	16869400
975459550	256556841	139204356	272763254	1499911101	707845665	600457661	1888743812	930532569	787377924	805885273	555892266
331933140	743824461	84450555	80958931	155755336	64297130	255621912	686998055	361586204	472111642	323753737	246827106
1390671348	273032357	522588043	0	316472858	1164223401	894855597	3112887457	2382430774	1624356852	1168151869	994246866
31436639	0	0	5597144	1094436	35695296	35823076	61181624	54821441	37063965	26271362	23090906
12518947	1299576	1021294	1016969	4056919	59782208	16799440	13871668	28982761	13390108	15273989	17987198
67772682	5714310	11510359	1120704	16808507	55796710	60511574	160220212	138823416	87810771	60608924	55513517
583434926	25742896	11483173	63389245	133357962	376966856	157469129	392605649	561041577	151813197	245730461	215513199
82194019	58721006	55501456	29000890	222754797	60802796	81415274	39240747	61847495	63992247	75547073	54218650
2232742	0	0	626916	9035032	8645437	7225072	8746254	36578233	23814073	9690376	11815694
54350812	74968434	5382927	48441229	12118930	19255145	17758885	90909272	22746581	6809600	35274181	30126413
209011927	16642930	9711259	8053383	29548383	137314905	89603709	620326951	110882695	70738389	130183453	183940376
219693756	1463577	10030074	1494977	1486457733	355033594	188892768	657497595	350551111	339240931	361035612	445528737
108290462	109599545	85103262	27814975	58576933	79761673	68265111	73453279	56276048	55614115	72275540	25002666
20521665	172760339	146983214	4908962	36065534	17715593	7792137	9504151	4237677	7650298	42813957	62722655
4409386	1731899	2453828	905883	4383766	6954832	6559195	16724139	8965247	6205771	5929394	4557059
62799561	18552854	40653323	4170020	69122960	34843091	38929372	132450207	71872688	65754211	53914829	35636849
0	7842776	2287116	4548553	0	9034054	0	0	0	787760	2450026	3490269
7925526	0	403457	0	0	974978	0	28194778	1998593	597088	4009442	8834701
6278072	0	2164504	0	13795218	18281918	7377100	34463574	49168086	20677784	15220626	16121733
72118336	19422638	17947520	5105021	15383103	445755345	222022695	291000091	634250449	510147436	223315263	236329110
112734756	234189687	109008160	398574	1186956	33945792	42242821	215077359	72857586	49792769	87143446	81976332
1444061	0	2899907	8413986	1355554	814078	1784477	29358287	2273928	4248530	5259281	8790803
129023311	106191001	136324610	62703143	198496875	315600767	213824909	391546778	276932866	296154190	212679845	105696843
255553	158059	2191257	2687659	1807661	16739071	10679033	7614703	10975009	27033604	8014161	8670537
178205241	3723269	30505345	49751	2125159443	8360870	16856667	37814715	67111893	27942095	249572929	661077110
12440226	5666347	4802849	3350	394502	8437682	13085263	28766290	37205045	23625426	13442698	12540258
42334723	0	0	0	4422426	21272871	18860735	30841114	32022061	33366608	18312054	16181790
40635902	11101031	19379997	6330455	43703343	38028255	46043143	98804724	75297679	43778949	42310348	28113510
255099535	54233012	33631284	8120862	15088284	354935190	178708796	665474507	397790186	237732062	220081372	210979005
59754734	2066197	1816332	305710	2028409	70878644	44306342	112540884	61417066	58216368	41333069	38458730
0	0	0	1771192	684025	0	0	0	0	0	245522	577562
0	178554	268529	2009929	0	3291956705	1640701939	1793236869	1953979971	6792699573	1547503207	2179595474
1670247166	1019744508	987212736	320640213	1022352295	1073573627	1176723829	2301822224	2034508721	2113469344	1372029466	629740908
51999039	39854354	48144053	0	74600799	51232603	39031096	100366355	84971509	51586394	54178620	27739051
1514617869	741575625	625286084	270115808	172535145	1649775899	1089806228	2659443698	1547735224	1136748775	1140764035	744912409
20505906	20411797	6278799	1204921	0	4219857	7862367	35447082	20233476	8235313	12439952	11273461
12916244	207029	539300	276512	226901	8359440	9293536	38743345	25207669	9556749	10532673	12657778
43267227	13571908	33302546	442193	24981684	46178047	31736293	53194404	22923810	10990102	28058821	16773481
1966448	501246	233215	393003	0	392997128	807763315	783873984	863012666	2966340334	581708134	917818269
9601481	3687916	25632202	2098515	65578	322437	25995635	2072159	1962947	3027853	7446672	10032556
13887386	8014205	4374461	0	1970341	6078384	14923324	46338858	28483145	20632363	14470247	14260087
4025869	0	0	1688740	0	38475229	16284018	18465872	17817392	38553164	13531028	15196780

Suplemental Table S1

Null 1	Null 2	Null 3	Null 4	Null 5	Null 6	Null 7	Null 8	Null 9	Null 10	AVG_Null	StdDev_Null	p value	Null/WT
988345992	836430536	1115052367	1338578221	897170594	1142707642	1284770436	906517733	968490302	1577446801	1105551062	235363298	0.5419	0.81
8323053	10800305	24900115	11189492	9707638	15204997	8191759	3000724	6691040	8222766	10623189	5930544	0.5485	0.82
175941497	156612533	175423569	284986783	107744934	104485427	73720112	53328483	113348949	65378866	131097115	69551254	0.5500	0.81
3718685	6589330	28411179	19561130	12276473	20910775	13732146	15814022	13452294	16337520	15080355	7050735	0.5528	1.18
12454899	1533179	4238575	11976202	11285789	10480265	11736733	5065795	1538569	4817935	7512794	4480168	0.5563	1.24
17806643	5049542	12966123	16442322	16385182	20604002	14422910	11286583	4025440	11324400	13031315	5330683	0.5521	0.79
840848610	863832008	1048634395	1003018659	660965299	543652838	501777406	408391490	464069071	587227823	692241760	230487511	0.5578	0.86
279275905	240379482	237824703	407812767	295291943	282778689	228647050	296182065	247822304	245792294	276180720	52583711	0.5585	0.85
1463628613	1059891390	2389425603	2074458833	1612402181	1344815623	1023911080	996592180	693132609	1084777408	1374303552	526871761	0.5695	1.18
0	13141444	32232173	33327795	13888112	26818273	23015842	28697718	21042656	24204025	21636804	10191801	0.5687	0.82
34978781	13479392	33860523	14449129	5193368	58055694	8989768	11397192	8222275	9135500	19776162	17025358	0.5725	1.29
96722065	57593413	120472583	106477428	80688927	62275345	51559842	49842145	43969767	49719584	71932110	27320965	0.5699	1.19
128201831	132656986	506833169	245813901	335094474	161668898	83544467	172855267	116795878	119502762	200296763	130535621	0.5756	0.82
104856150	58252444	82909131	80994112	68212596	41390395	52033572	46218779	73135249	42659155	65066158	20721538	0.5751	0.86
3422698	3021122	17465000	10338524	6188385	11175143	5180645	6319291	5829471	5289525	7422980	4392686	0.5765	0.77
55675234	8793823	31879138	71277495	34466967	32317859	18504241	10478993	6622936	17801531	28781822	21174621	0.5840	0.82
108322149	56423049	107866960	92227504	58559891	165911740	104626936	101275896	64059919	113380490	97265453	32610727	0.5842	0.75
258755275	273972562	394104921	438146561	316172113	267391173	187306484	215361924	214219477	251759033	281718952	80173832	0.5863	0.78
49836155	39010948	52519201	64200515	57036621	139233962	93299579	99691352	81419667	114659512	79090751	32301385	0.6042	1.09
132766708	19620552	33965837	29133653	25011671	13588336	11039925	11354318	18146556	12595205	30722276	36704214	0.6052	0.72
3379462	4781551	35092289	15787998	4514730	4039353	2035981	2808886	1274015	4246267	7796053	10411624	0.6098	1.31
76626348	52390517	205358541	70702610	68049071	43773241	33483188	20912686	31779253	39731182	64280664	52874107	0.6134	1.19
0	0	0	33033942	0	0	0	0	9683738	0	4271768	10554283	0.6106	1.74
6962728	2873822	39526020	15288010	345372	0	0	0	75695	0	6507165	12602738	0.6141	1.62
20781319	10514774	23425426	17836674	3841517	2036153	7203565	15701531	7294155	14768762	12340388	7265773	0.6128	0.81
104035470	140745376	135006567	189572655	117319988	316552136	193260956	218162129	192138223	227348511	183414201	63164425	0.6123	0.82
109339689	49598075	93713816	84638550	100751678	83631005	76227109	44315700	31630144	59328896	73317466	25919693	0.6173	0.84
0	0	9890598	0	0	4744554	6458307	0	10663668	5184155	3694128	4296871	0.6191	0.70
143414876	217513430	232546248	284295386	184035298	218353028	152831956	156122719	157166473	196808251	194308766	44642169	0.6188	0.91
0	557514	2264617	548484	1962960	15328856	23465338	12102856	22925051	21924286	10107996	10144428	0.6258	1.26
518478732	38993166	166813446	95905662	297326692	152558109	101995811	36960643	14324145	17726064	144108247	157642064	0.6295	0.58
13343660	5174478	16075850	14393423	15793566	14211433	10969552	8590552	4869968	10774084	11419657	4105202	0.6336	0.85
20893655	18817486	26195132	26540777	15730432	24380187	22103333	16838458	20679080	16536735	20871527	3944796	0.6329	1.14
35719130	56061885	45311265	50522254	19211187	38982640	25608167	16422055	36111708	52296831	37624712	13829929	0.6420	0.89
218383787	105514509	215379470	238502076	163188862	303881947	192664260	56224189	151991291	222590138	186832053	70661499	0.6422	0.85
42528459	42673323	58440285	51840382	32542194	53989153	44907007	41263327	47868282	55441459	47149387	7887963	0.6451	1.14
0	0	0	0	401301	0	0	0	0	4144901	454620	1302751	0.6482	1.85
0	0	634787	397971	0	5846420066	2949553091	3449363999	3722297817	4046030396	2001469813	2234717294	0.6511	1.29
1486672743	1335913664	1912964088	1259881958	689810410	2641650761	746719622	2047122323	1454386800	1363342358	1493846473	587104284	0.6599	1.09
50180018	42634736	88744132	66678536	49854242	53708689	37213649	38435808	27470107	41655230	49657515	17386508	0.6675	0.92
1242419845	922194673	1282675106	1208207795	1134188873	1667149004	1265740257	1121866480	1092741364	1551520640	1248870404	218594429	0.6649	1.09
32320657	4083502	9944077	10480951	17561476	11882637	9145934	4366253	1793513	3189483	10476848	9055972	0.6728	0.84
14116874	5069069	19389991	14400328	17116483	13018725	10551658	12253415	5288689	12148361	12335359	4548622	0.6767	1.17
18021983	17049486	21601221	22205240	64094483	37495469	15075586	19439628	15102799	20684153	25077005	15135369	0.6813	0.89
812485	1378079	6915941	0	768467	1934035009	1202542059	1025344826	1402314398	1829753976	740386524	821296066	0.6885	1.27
1088824	20646605	681510	3590684	706350	1461076	1129911	2126876	24098021	1819276	5734913	8846791	0.6905	0.77
16913328	6866624	13405093	12747170	22839726	14136992	16049648	10866293	3697287	7665869	12518803	5555822	0.6915	0.87
0	23656514	23528656	24125723	17599886	14161960	11825144	16529114	12588327	12673970	15668929	7322595	0.6933	1.16

Accession #	Protein	PEPTIDE	Xcorr	MZ	% Coverage	MW [kDa]
157951694	complement C2	DHENATGTNTYEVLIR	5.1	917.4	25.7%	84.7
13507644	carboxypeptidase N catalytic chain	GMVLDENSNNLTGAVISVTGINHDVTSGEHGDYFR	9.9	934.9	30.2%	51.8
125347464	afamin	FNETTQR	2.2	448.7	30.6%	69.3
26986583	coiled-coil and C2 domain-containing protein 2A	LEQLQQEFNFVSEEELNR	2.3	752.4	7.1%	187.4
76559942	carbohydrate sulfotransferase 11	KNATQEALR	1.8	516.3	19.0%	41.6
21389311	intercellular adhesion molecule 1	TELDLRPQGLALFSNVSEAR	5.5	740.1	5.4%	58.8
124494256	prolow-density lipoprotein receptor-related protein 1	FNSTEYQVVTR	3.1	672.8	13.6%	504.4
111378397	phosphatidylinositol-glycan-specific phospholipase D	LTSFMLENGTSDCNLPENPLFISCDGR	3.3	1036.1	27.3%	93.6
161702988	apolipoprotein B	SKPTVSSSIELNYDFNSSK	2.7	702.3	23.8%	509.1
153791270	laminin subunit gamma-1	TANETSAEAYNLLLR	1.9	833.9	7.7%	177.1
6755987	vitronectin	NGSLFAFR	2.6	456.7	33.1%	54.8
160333710	serine protease inhibitor A3M	YTGNASALFILPDQGR	4.4	862.4	77.3%	47.0
110347469	alpha-2-macroglobulin	SLGEVNFTATAEALQSPELCGNK	5.4	813.4	48.7%	165.7
148277054	complement C1s-A	GVDSCHGDSGGAFAFQVPNVTVPK	3.7	816.7	12.4%	77.5
110347469	alpha-2-macroglobulin	ACVSLNHVNETVMLSLTLEYAMQQTK	6.3	1005.5	48.7%	165.7
31982171	murinoglobulin-1	TIEQERNASFVYTK	4.1	843.9	43.6%	165.2
100815972	gamma-glutamyl hydrolase	HFPTELLDSLALENLTANFHK	2.5	804.8	26.2%	35.4
18252782	antithrombin-III	LFGDKSLTFNESYQDVSEVVYGAK	4.6	900.1	67.3%	52.0
160333372	lumican	AFENVTDLQWLILDHNLLENSK	2.9	872.1	48.5%	38.2
7304875	alpha-2-HS-glycoprotein 1	RPFGVVYEMEVDTLETTCHALDPTPLANCSVR	8.3	924.4	46.7%	37.3
148277039	alpha-2-macroglobulin-P	VSMESVRGNQSLFTDLVVDK	1.9	1113.1	18.3%	164.2
224967112	coagulation factor XIII B chain	TYENGSSVEYR	3.2	653.3	29.2%	76.1
6679182	alpha-1-acid glycoprotein 1	ESQTIGDQCVYNSTHLGFQR	5.1	781.0	48.8%	23.9
7304867	complement factor D	LSQNASLGPHVRPLPLQYEDK	6.0	591.6	27.0%	28.0
161377465	heparin cofactor 2	DFVNASSK	2.0	434.7	25.1%	54.5
75677437	apolipoprotein D	GNCIQANYSLMENGNIEVLNK	2.3	800.4	42.9%	21.5
225735645	sulfated glycoprotein 1	DNATQEEILHYLEK	2.1	568.6	31.2%	61.4
18252782	antithrombin-III	SLTFNESYQDVSEVVYGAK	5.3	1069.0	67.3%	52.0
247269929	carboxylesterase 1C	NIQAVNEIIATLSQCNDTSSAAMVQCLR	1.9	1023.2	48.2%	61.0
160333710	serine protease inhibitor A3M	FNLTETSEADIHQGFGHLLQR	6.5	805.4	77.3%	47.0
147904569	carboxypeptidase N	LQLLNLSR	2.3	479.3	28.3%	60.4
219521935	histocompatibility 2	TLLSYYNQSAGGSHTIQVISGCEVGSDGR	4.5	1019.8	35.9%	39.6
33563252	fibrinogen, alpha polypeptide 2	MKGLIDEANQDFTNRINK	2.2	531.5	50.6%	61.3
160358795	interferon alpha/beta receptor 2 b	VNNVTGNFTFVLR	3.5	741.4	18.6%	27.7
160358795	interferon alpha/beta receptor 2 b	VNNVTGNFTFVLR	2.1	741.4	18.6%	27.7
13385184	coiled-coil domain-containing glutamate-rich protein 1	NTTQFIMNQVYEDMR	1.7	953.9	3.7%	46.2
247269929	carboxylesterase 1C	NIQAVNEIIATLSQCNDTSSAAMVQCLR	3.1	1017.5	48.2%	61.0
188219651	hepatocyte growth factor activator	FCNIVPTEHCFLGNGTEYR	4.6	772.7	12.9%	70.5
283483997	maltase-glucoamylase	YGYENDTEIANLYDEMVAK	3.5	1128.5	22.4%	208.4
125347464	afamin	HVEDKFNETTQR	4.6	502.2	30.6%	69.3
18252782	antithrombin-III	LGACNDTLKQLMEVFKFDTISEK	3.4	677.1	67.3%	52.0
124486702	alpha-1B-glycoprotein	GTAGFLIYKPGNYSCSYLTHAAGEPSEPSDIVTIK	3.4	1249.6	29.7%	56.5
6753798	prothrombin	SRYPHKPEINSTTHPGADLK	4.5	450.8	31.7%	70.2
13384648	biotinidase	GVQIIVFPEDGIHGFNFTR	5.6	716.4	27.8%	59.2
110735411	selenoprotein P	LESQGYFNISYIVVNHQGSPSQLK	5.6	903.8	26.6%	42.7
218156291	complement factor B	IVLDPSGSMNIYLVLDGSDSIGSSNFTGAK	6.2	1025.5	16.7%	79.6
31981720	protein Z-dependent protease inhibitor	ASQQLSNETSSFGFNLLR	5.5	667.7	43.1%	51.8
31982171	murinoglobulin-1	SLDEEAIKENNSIHWK	4.2	479.5	43.6%	165.2
160415217	zinc-alpha-2-glycoprotein	DTTGSHTFQGMFGCEITNNR	5.2	764.0	37.8%	35.3

WT 1	WT 2	WT 3	WT 4	WT 5	WT 6	WT 7	WT 8	WT 9	WT 10	AVG_WT	StdDev_WT
27289911	32806833	19098737	6209108	12765595	24481101	13354344	41653963	23618765	32702449	23398081	10814664
510464999	171935699	160664584	9439232	345261452	536608978	328713387	921265647	723823942	490047170	419822509	275183594
28953303	15264281	19156388	9204518	25133148	40632775	37652892	41140841	24890044	27894345	26992253	10686337
22844532	16528956	26408748	8111806	98174	16733711	8577385	43944461	32141062	11233098	18662193	12993469
0	14849166	35027047	12110764	106778970	91218296	84355745	33085072	0	108168789	48559385	44281235
29091466	78800	7880487	0	557328	35026879	11880151	33731514	52509365	17782532	18853852	18053445
7054939	6102359	206043	673847	0	11879775	8811063	42768641	14272674	5717182	9748652	12567424
13991867	15243814	9294100	0	2902528	21582361	12363272	47980848	41813848	25571550	19074419	15662160
31185285	8935376	11069960	14003601	18032321	15731125	18179949	52222446	21178167	18941327	20947956	12562976
561954746	48524358	137095769	2281450	426348501	595815277	391185994	1050460713	647291770	514422135	437538071	316128036
45862887	8506082	29937672	2050033	61594209	68404052	33085069	175845682	33892374	24382233	48356029	49357699
953222830	479942134	631594928	237640056	115613447	1006091545	777999227	1892345149	1174183378	864341383	813297408	507441150
3351835295	672317905	1176357381	559626	717918401	2917863070	2540025092	8494594932	6423464802	4543114885	3083805139	2738857873
16842207	4280574	11654548	712444	37511936	19681990	10956965	20979798	12344402	20650820	15561568	10275477
243824271	1895000	115413307	434130	286544844	24146347	52864875	187980142	222454753	156181571	129173924	105733566
135624359	98980534	89117186	28179627	230495438	141456835	91906904	200277009	161803255	57902559	123574371	62760363
3895907	3993310	528266	0	0	4853554	2708529	6149603	5598790	1794503	2952246	2297910
36421496	36454698	44225267	692268	1639384	13273457	10088900	31633992	9394783	292643	18411689	16969372
3920557	4581816	1360455	120800	1140747	4450906	6440061	41702321	48499499	11554644	12377181	17618375
1491504838	63482862	142929684	5376969	135658150	1302896908	981007353	3033586411	2756849651	1436414934	1134970776	1101108594
523455705	18057627	41802779	54013390	34493975	181606414	983492942	1106546103	1342076841	1508491844	579403762	598563181
202958340	196388009	192259626	79555971	277467476	482422609	351899935	392638609	322325683	328109825	282602608	117226860
4708484915	2715262857	2060383302	552325864	144783502	2349487510	3137945819	10336323116	3955037383	3111815432	3307184970	2833746065
199113072	16291610	9841022	4073594	90834462	720093370	445941769	690293953	557006904	654530796	338802055	304225604
139323948	128228292	133416731	55932805	148143571	211336355	166098886	247653835	208774895	226444512	166535383	57577707
39885774	2199446	225599	1886676	8753689	31870766	18304572	57459973	62462571	40043979	26309304	23361173
47185196	694033	954970	11759	0	54708856	19850618	0	53865022	53281188	23055164	25905517
1897415761	803377017	788732589	99347	1413962534	2151432057	1501259814	3743153291	2964580656	1933183584	1719719665	1090983645
7196814	5124515	5121839	0	1460373	31212139	11250890	31049241	24328221	13928386	13067242	11783182
400323142	24434195	15587451	216739	325347738	191907134	93645593	753016378	206784922	155329596	216659289	230230836
186307639	31623669	149596224	13503033	210751825	196410275	144337154	355433600	236836391	189407029	171420684	98063206
9950363	0	0	0	6698318	6081022	5298538	20784021	27608669	16649291	9307022	9511028
3802060	3272784	4202609	1360192	5859013	13190874	11361148	7275230	2537694	5766468	5862807	3814849
9233098	0	3450043	52285072	0	1861083	4976925	17115095	15117678	11317193	11535619	15556205
9233098	0	3450043	52285072	0	1861083	4976925	17115095	15117678	11317193	11535619	15556205
2532525539	1751800354	1900968320	637157877	1431257032	1122585734	2284521654	4627128305	2997515817	2237913442	2152337408	1110954857
126172991	88703857	46591682	10771023	220199286	162186838	145402400	344796874	355197142	167157168	166717926	114042729
82609340	27231988	16029001	17791138	44647856	178400423	87683224	172547391	123347589	134534554	88482250	61863216
48440208	3057634	18196541	2051658	49913180	73056186	35901278	74310923	81561643	64388972	45087822	29438820
250588306	169725606	179927974	66948622	271104360	320512064	471270834	432720967	387804557	296246893	284685018	125488231
57622600	32414399	25858549	123286	711741	42809444	31341518	80809123	35957205	8492954	31614082	25289098
0	0	0	0	0	53492342	21637001	40849224	50588823	156023572	32259096	48869828
14808417	8281982	5463061	1542431	7356676	11147691	4505978	15456994	10027105	9920830	8851117	4387632
40864224	7301197	24492425	215404	3657162	26349954	27893397	57472757	54865140	42107358	28521902	20440146
174850119	3530034	38374600	34244901	136196548	110195310	112033152	434593807	300936566	178243742	152319878	131515210
108589999	177671239	49321668	686184	2850390	67032094	104663283	357764088	248524471	145883449	126298687	111940330
112336991	30498873	22320523	1593360	1406484	87653546	73886322	265121630	145040997	106963214	84682194	80451224
3841526	1645268	1214567	786628	10239140	22901772	19600239	132407405	80729938	17257324	29062381	43376514
217586073	26506474	34683737	26556924	23453029	217303912	141442397	331119988	264234139	177805852	146069252	113256981

Suplemental Table S1

Null 1	Null 2	Null 3	Null 4	Null 5	Null 6	Null 7	Null 8	Null 9	Null 10	AVG_Null	StdDev_Null	p value	Null/WT
54798153	20099749	35115467	39188946	26488193	22152213	14457834	14384661	13743585	15431012	25585981	13599744	0.6952	1.09
570447258	404310968	693045085	532955787	451538934	556755121	419014612	325632570	244265687	382236338	458020236	131929805	0.6969	1.09
19364088	42772747	44334941	37067991	23936798	25093388	22774321	23549080	21121842	27215276	28723047	9169061	0.7021	1.06
47683601	15004648	15800389	17578314	20316875	14875339	11521294	12637384	5738061	4352777	16550868	12002635	0.7103	0.89
46236807	42834430	15251984	81514993	61983691	47487424	39736315	29253601	35400618	29059021	42875888	18547062	0.7125	0.88
17006854	20072393	26952552	31596450	13947649	25839431	13321450	26103413	15997520	19625427	21046314	6232324	0.7208	1.12
8141163	3849500	19402830	7137558	7781607	7870908	3001784	8530374	4972501	11489704	8217793	4645334	0.7221	0.84
22324310	12189985	34057589	22577424	17925250	17715038	12794888	10423955	8137768	12857867	17100407	7684355	0.7246	0.90
21070251	11673441	31499481	19897401	11838836	27878770	17697865	21693108	15823438	14405355	19347794	6532497	0.7250	0.92
463927886	437414086	755427954	641646051	435525713	753580799	307203669	346989863	281667546	348794211	477217778	177923165	0.7334	1.09
50088709	69690784	115059408	69598099	25851607	58823980	47296713	23274044	30270314	54879008	54483267	27078502	0.7347	1.13
405084493	456928061	648548072	701428675	448870050	1240883694	835355682	901416340	812862326	1068140844	751951824	275780762	0.7408	0.92
3998692770	2918202598	5317894467	4705825837	3877416351	3107028859	2693571292	2350958901	1837619977	3143512491	3395072354	1074653621	0.7418	1.10
19265558	15495920	21441428	12341599	17890198	13896196	10683230	8753393	11977575	12510404	14425550	4031259	0.7486	0.93
542247862	56430406	124821401	73966016	333269518	172149122	100907648	41241266	18333252	27791646	149115814	166536216	0.7529	1.15
148725101	227874892	82518182	300046138	130174250	101577272	90662122	65873108	117600599	64337298	132938896	75972882	0.7672	1.08
8072583	573952	1469971	3498454	3512065	3762827	3300805	1367232	595810	254274	2640797	2353146	0.7680	0.89
19190983	10082025	20778557	32893753	25449224	19646092	12354136	8779194	3864441	13237502	16627591	8643668	0.7704	0.90
31636665	2884118	26497328	12124011	9039471	5231967	5775990	6285802	2273536	2941463	10469035	10317568	0.7710	0.85
2818913107	836198412	1356886340	1402111737	1303278210	1330985931	921826612	804040475	704692184	992704227	1247163724	609803156	0.7813	1.10
345530878	338414219	615379637	723291634	639164020	521478816	748264778	242367675	262911922	791545565	522834914	210019921	0.7812	0.90
265637976	304959059	381534216	360360011	225082836	271094967	210420358	208927641	243371425	241619810	271300830	60223554	0.7893	0.96
2976769468	2614538199	3139528364	3178511770	2506882594	3639574391	3033240631	3551041848	2835662246	3399794467	3087554398	375294269	0.8108	0.93
349572070	232012882	426302473	381292969	183567949	500450412	357457935	346384954	386898851	446744170	361068466	94646685	0.8276	1.07
136359895	199758778	249659918	274903287	166482166	160413131	127683091	126939031	120483224	155652646	171833517	53480043	0.8336	1.03
36196889	25492305	48531662	25542070	30541238	28814713	23492379	25324126	17476960	18414885	27982723	9057069	0.8351	1.06
0	49803213	0	19673191	38073337	48426906		0	38424106	31156277	25512704	25106973	19597509	0.8439	1.09
2310398343	1514017906	2514989016	2652403058	2031598673	1850366453	1391410364	1371211023	944856601	1387114778	1796836621	566540875	0.8450	1.04
12278184	6908643	20424483	15766515	12651584	16360392	11030818	11653366	5235099	10456457	12276554	4460151	0.8449	0.94
268860211	89468698	170041434	152121745	121201700	323464828	384849602	186935997	86278139	228194220	201141657	99808740	0.8472	0.93
162351778	142011630	198798334	149523349	167311477	211203686	161086132	155239970	144647058	159605012	165177843	22634939	0.8467	0.96
10533382	7396612	10811043	8890999	8462195	10593960	9599406	6627462	6122828	8125737	8716362	1675642	0.8488	0.94
7111348	212906	2655380	2867427	22601845	15987721	866731	2408146	2188701	6483692	6338390	7333088	0.8577	1.08
11058882	33591531	15658532	7908278	7817236	18221859	13267318	6157323	4966552	6506474	12515398	8603286	0.8636	1.08
11058882	33591531	15658532	7908278	7817236	18221859	13267318	6157323	4966552	6506474	12515398	8603286	0.8636	1.08
1972499655	1490937424	2597165948	3050961546	2033491031	2470602788	1763482400	2343611574	2075764582	2377308118	2217582506	446256859	0.8651	1.03
132564840	94494523	291166922	203562037	197925185	220224989	164455045	152714935	110154303	169312092	173657487	57725784	0.8656	1.04
113865633	72774489	121619175	102385309	57773394	107055590	61597781	62739586	59649557	89473141	84893366	24853723	0.8667	0.96
75626673	37894113	77294032	52539835	33992053	41284778	24084820	32929327	30149738	28243683	43403905	19096810	0.8811	0.96
182825413	359584094	537898649	264604996	158951030	286999797	184342887	311138138	195371424	285130895	276684732	112756068	0.8825	0.97
54143733	31255503	38954749	57640041	32740274	20013383	25961387	22527724	18341619	28118587	32969700	13578205	0.8829	1.04
423624	445197	0	0	0	123305722	93334097	47287809	30438856	58000638	35323594	44677989	0.8853	1.09
24401588	5096614	21097511	9303074	4205644	10593514	3389896	1274769	3433439	1520591	8431664	8159947	0.8877	0.95
47551326	9799104	26024117	28100805	10573187	48612478	34722161	29137233	15721421	23962322	27420415	13565468	0.8887	0.96
201105310	73460228	156534936	155220300	171546475	217673368	163600235	139568378	70032505	111855745	146059748	48958367	0.8894	0.96
194713171	65317106	180569375	167115876	195598619	150331338	138202536	90624683	34292939	100554475	131732012	56408867	0.8925	1.04
94179683	68250799	98351647	94407784	73385597	107696921	88020464	87335668	76391538	91578372	87959847	12137966	0.9000	1.04
75433764	12947223	93641412	27973603	16002150	14307678	18673436	24933450	14479154	12880603	31127247	28918992	0.9017	1.07
251187233	105702039	185031011	119924789	176059392	182638855	111660372	130370415	112445759	134422084	150944195	46638762	0.9012	1.03

Suplemental Table S1

Accession #	Protein	PEPTIDE	Xcorr	MZ	% Coverage	MW [kDa]
6754164	complement C5	SITHDTDGVAVFVLNLPSNVTVLK	6.1	847.5	25.2%	188.8
148747546	serine protease inhibitor A3K	NLINDYVSNQTQGMIKK	3.4	992.0	82.3%	46.6
110347564	ceruloplasmin b	EYEGAVYPDNTTDFQR	4.4	953.4	29.7%	121.1
283483997	maltase-glucoamylase	GCIWEASNTTR	2.3	648.3	22.4%	208.4
251823841	CD97 antigen 2	DFNPATVNYTIQK	2.7	756.4	13.1%	80.4
126723423	macrophage colony-stimulating factor 1 receptor	THNSVGNSSQYFR	4.4	499.9	16.5%	109.1
407228385	N-acetylmuramoyl-L-alanine amidase a	LEPEHLQLQNISQEQLAQVATLATK	6.3	935.8	18.3%	57.7
225735645	sulfated glycoprotein 1	FSELIVNNATEELLVK	3.7	910.5	31.2%	61.4
261823995	serum paraoxonase/arylesterase 1	ITVVYAENGTVLQGTTVASVYK	4.7	1157.6	22.3%	39.5
7305235	leukemia inhibitory factor receptor 1	GSALPHPSNATWEIK	3.2	536.9	28.2%	122.5
115430101	C4b-binding protein	ALCQKPEVGNGTLSDEK	2.3	597.3	35.2%	51.5
147904569	carboxypeptidase N	LSLDSNNLTALHPALFHNLSR	5.8	584.8	28.3%	60.4
110347564	ceruloplasmin b	IYTFHAHGVTYTKEYEGAVYPDNTTDFQR	5.1	857.4	29.7%	121.1
115430101	C4b-binding protein	CGPPPAIPNALPASDVNRTDFESHTTLK	2.0	1003.2	35.2%	51.5
247269929	carboxylesterase 1C	LVQYNISLSTMIDGVVLPK	2.3	703.1	48.2%	61.0
157951698	complement C4-B	ALNVTLSSMGR	2.3	583.3	27.0%	192.8
115430101	C4b-binding protein	ALCQKPEVGNGTLSDEK	3.6	616.3	35.2%	51.5
153791270	laminin γ1	VNDNKTAAEEALR	2.0	716.9	7.7%	177.1
226958456	histidine-rich glycoprotein	YSNESQDLSVNGYNCTTSSVSSALR	5.3	1371.1	31.9%	60.4
6679731	coagulation factor V	LTNSPQNQNITVPR	4.1	791.9	21.4%	247.1
6680856	corticosteroid-binding globulin	VPMMVQSGNISYFR	4.2	554.6	42.8%	44.7
8850219	haptoglobin	VVLHPNHSVVDIGLIK	6.8	436.0	59.9%	38.7
224967112	coagulation factor XIII B chain	EQETCLAPELEHGNYSTTQR	5.2	789.0	29.2%	76.1
7305599	transthyretin	TLGISPFHEFADVVFTANDSGHR	5.6	840.1	77.6%	15.8

WT 1	WT 2	WT 3	WT 4	WT 5	WT 6	WT 7	WT 8	WT 9	WT 10	AVG_WT	StdDev_WT
407421834	276345267	133143742	128442	4693908	176611121	157761632	745562089	293481833	172195477	236734534	217919986
268399784	562653491	39870384	49168350	171351764	19173058	84331647	197893310	145309277	194043378	173219444	158935714
2496126926	1781817367	1890539929	650379971	1372915089	1169880754	2235598511	4613859535	2974500708	2190923991	2137654278	1100197946
725948	3063646	1532247	1754301	23858928	5211587	8877657	7102732	4852880	2493881	5947381	6807394
1670595	1439513	2805513	0	4142501	5204186	5650308	16553757	13034564	6349261	5685020	5269927
19105778	6939023	5726744	4125438	12312585	23897636	23742315	27220486	49534504	29927686	20253220	13895440
606754630	426879752	354911622	0	209137459	477299497	394045534	927718958	701126686	492551777	459042591	256214379
43060739	74425090	30014155	0	27064496	36950011	24892520	77896804	70045477	41347960	42569725	24885780
44380812	0	6370755	0	49854703	78976366	86633804	184964437	311609122	183678990	94646899	102039274
271425	0	0	37087	15235195	1173076	11783601	28652510	58540682	21017357	13671093	18835943
6804800	2543119	9909589	3502927	87159792	43945823	11493057	50251464	28614299	18253737	26247861	27102855
802561038	4831701	273965982	313421	708675768	865327107	592336901	1869618912	1333731033	891180998	734254286	577185097
56352580	4134233	559168	580981	940666	22015944	9874802	45262565	16606786	3661875	15998960	19873715
12328024	0	0	0	5369395	28982478	28847318	35509319	70451833	51061328	23254970	24213536
21884952	13664803	1323448	0	152410801	9149033	47913366	154710650	205526557	106654680	71323829	76707788
654340762	211015717	153640109	259510686	408085188	175140558	406937450	1255656123	505926780	693942442	472419581	334802442
45373448	20054060	18278457	11691755	148050911	98655474	63573571	198230833	107641227	63383041	77493278	60985166
841793675	922135656	1096456267	206742531	782140658	794353734	871264478	1692583142	870100925	838453743	891602481	362264695
22445451	0	0	4741941	7812493	8636079	12886049	51297760	28221307	14798960	15084004	15633267
52310117	40980445	39843013	19074068	44420951	40113391	57449106	129349276	63122115	74028603	56069109	29829436
35866566	5533812	12478973	2094801	9579617	44293280	110200944	124270328	251613025	178199898	77413124	85799879
1499296670	1147759622	777964295	683285787	42298937	106817447	379777824	8527422004	1699208014	59819959	1492365056	2541457558
137661945	39722578	28804681	25926846	54310071	259612528	211709287	300816012	205177782	188869288	145261102	102443265
721704696	373248687	217420657	0	607002400	614480592	461233180	1026825380	1384901378	836637448	624345442	400059780

Suplemental Table S1

Null 1	Null 2	Null 3	Null 4	Null 5	Null 6	Null 7	Null 8	Null 9	Null 10	AVG_Null	StdDev_Null	p value	Null/WT
436425742	149771915	336216837	295040062	472336171	276811514	192880468	114412701	58541353	135417605	246785437	139739109	0.9036	1.04
298146011	143465000	201385587	353809726	225799854	206053238	89827181	91442748	110905871	82311798	180314701	93705428	0.9046	1.04
1888175331	1491933146	2559856285	2969774936	1966109073	2480297120	1712741980	2287058251	2060335944	2409048800	2182533086	442099884	0.9061	1.02
8506228	6597434	6615628	7887333	3689980	5684570	3865304	3166349	6678303	4159852	5685098	1869520	0.9078	0.96
1847570	3562095	7859869	20065683	7951973	3427035	1029529	2125627	2828735	3509547	5420766	5652330	0.9151	0.95
26394521	22202695	20665033	23754548	19405563	28235892	9722072	20533954	14781289	21406176	20710174	5359868	0.9238	1.02
574243824	378119978	710316113	696345253	511541911	469122825	357334664	349731428	247160115	387123702	468103981	154080561	0.9247	1.02
43074467	26485852	45886656	56042466	47042772	47840395	45167656	37603369	26035550	42881755	41806094	9418124	0.9287	0.98
147245061	28669127	102434948	82864837	128038526	146486264	140331896	92722633	29776665	77400851	97597081	44260320	0.9341	1.03
16310634	1616187	29294787	20227425	549119	1311318	3866911	18762835	19197070	20192369	13132865	10309316	0.9377	0.96
41104461	23235426	49172149	54918475	38070690	15394295	18175979	6873581	9707959	13850104	27050312	17308479	0.9380	1.03
859905431	467137669	859991828	765305874	833807979	1000729120	715704436	605025612	491521690	598805955	719793559	175452364	0.9404	0.98
16054659	15416906	14228456	23013210	7790013	18592545	21377391	15280741	10061378	13362781	15517808	4668123	0.9414	0.97
0	16178766	17801106	23735438	13620876	52602664	34372691	21497451	25916442	33273257	23899869	14161481	0.9428	1.03
101792315	16390967	60518222	43409607	137619025	120033176	121235712	73483971	13445976	41881660	72981063	45085908	0.9537	1.02
554638251	248473980	541341577	310805938	497030580	345322227	769756821	175723856	485499911	723721704	465231485	195443980	0.9539	0.98
104065713	89451787	152478453	156727371	64518510	46049843	38731262	27448608	41025165	40158471	76065518	47862467	0.9542	0.98
450914202	1051359514	577047947	609581443	654582447	1340450941	1056922166	1140295264	1042361325	908818916	883233417	291996052	0.9553	0.99
22134595	9856925	6837957	15800079	12861725	32071031	12922262	16532111	11795736	12407054	15321948	7174210	0.9656	1.02
51950174	44028866	59102569	69807393	59213474	74252343	42232594	40423828	50291670	64952867	55625578	11770722	0.9656	0.99
48289778	76139581	101101644	88939188	43519764	84054996	73958782	88759331	82195415	99012471	78597095	19300877	0.9665	1.02
86065598	28600474	42359713	59059101	46865468	2149853979	3135275958	3455069253	3308698947	2849763632	1516161212	1580654866	0.9802	1.02
161856868	215799935	210215050	204679645	89144113	86000508	125690536	79273779	136218599	151947348	146082638	52194845	0.9822	1.01
1259441722	354081641	848579648	757325131	1078339552	758778852	332734574	329806154	220259149	273177436	621252386	369208869	0.9859	1.00

Suplemental Table S1

Supplemental Table S2. ECM array for Day 0 (D0) and Day 7 (D7) post-MI for saline (Saline) or MMP-9i infarct areas from post-MI LV. Values in the numbered columns are 2-ΔCt values X 100 and are prese D1 MMP-9i, 3-D0 vs D7 Saline, 4-D0 vs D7 MMP-9i, 5-D1 Saline vs D1 MMP-9i, and 6-D7 Saline vs D7

Gene	D0	D1 Saline	D1 Saline fold change	D1 MMP-9i	D1 MMP-9i fold change	p value
Adamts1	0.211 ± 0.023	0.603 ± 0.099	2.86 ± 0.47	1.467 ± 0.449	6.96 ± 2.13	0.0147
Adamts2	0.148 ± 0.006	0.231 ± 0.019	1.57 ± 0.13	0.226 ± 0.020	1.53 ± 0.14	0.0024
Adamts5	0.036 ± 0.004	0.012 ± 0.002	0.32 ± 0.05	0.015 ± 0.003	0.41 ± 0.08	<0.0001
Adamts8	0.008 ± 0.001	0.009 ± 0.002	1.18 ± 0.25	0.017 ± 0.008	2.15 ± 1.05	0.9721
Ctnna1	3.444 ± 0.142	0.945 ± 0.102	0.27 ± 0.03	1.450 ± 0.277	0.42 ± 0.08	0.0002
Ctnna2	0.000206 ± 0.00001	0.001 ± 0.0003	5.79 ± 1.48	0.001 ± 0.0003	3.72 ± 1.33	0.0092
Ctnnb1	1.893 ± 0.039	0.803± 0.043	0.42 ± 0.02	0.749 ± 0.067	0.40 ± 0.04	<0.0001
Cd44	0.08 ± 0.004	0.331 ± 0.088	4.15 ± 1.10	0.343 ± 0.100	4.29 ± 1.25	0.0102
Cdh1	0.001 ± 0.00025	0.006 ± 0.002	12.02 ± 3.42	0.003 ± 0.002	6.35 ± 3.26	0.0017
Cdh2	2.573 ± 0.074	1.136 ± 0.209	0.44 ± 0.08	1.562 ± 0.358	0.61 ± 0.14	0.0063
Cdh3	0.00021 ± 0.00001	0.001 ± 0.0003	5.79 ± 1.48	0.001 ± 0.0003	3.72 ± 1.33	0.0152
Cdh4	0.022 ± 0.003	0.003 ± 0.001	0.15 ± 0.04	0.003 ± 0.0003	0.13 ± 0.01	0.0005
Cntn1	0.0003 ± 0.0001	0.003 ± 0.001	7.91 ± 3.72	0.002 ± 0.001	6.62 ± 3.31	0.0607
Col1a1	0.28 ± 0.018	0.316 ± 0.064	1.13 ± 0.23	0.194 ± 0.039	0.69 ± 0.14	0.1808
Col2a1	0.0003 ± 0.0001	0.001 ± 0.0003	4.62 ± 0.93	0.001 ± 0.0003	4.54 ± 0.84	0.0060
Col3a1	1.19 ± 0.087	0.574 ± 0.146	0.48 ± 0.12	0.771 ± 0.335	0.65 ± 0.28	0.0176
Col4a1	1.711 ± 0.075	2.322 ± 0.237	1.36 ± 0.14	2.834 ± 0.420	1.66 ± 0.25	0.1010
Col4a2	1.822 ± 0.128	1.868 ± 0.330	1.03 ± 0.18	2.754 ± 0.440	1.51 ± 0.24	0.1006
Col4a3	0.011 ± 0.001	0.003 ± 0.001	0.24 ± 0.09	0.003 ± 0.001	0.22 ± 0.08	<0.0001
Col5a1	0.217 ± 0.006	0.123 ± 0.036	0.57 ± 0.17	0.105 ± 0.023	0.48 ± 0.11	0.0378
Col6a1	0.599 ± 0.016	0.086 ± 0.019	0.14 ± 0.03	0.150 ± 0.029	0.25 ± 0.05	0.3900
Vcan	0.051 ± 0.004	0.207 ± 0.031	4.02 ± 0.60	0.183 ± 0.019	3.55 ± 0.38	0.0002
Ctgf	1.17 ± 0.101	5.977 ± 1.009	5.11 ± 0.86	7.902 ± 1.547	6.75 ± 1.32	0.0002
Ecm1	0.453 ± 0.031	0.502 ± 0.082	1.11 ± 0.18	0.459 ± 0.105	1.01 ± 0.23	0.9565
Emilin1	0.18 ± 0.005	0.158 ± 0.025	0.88 ± 0.14	0.164 ± 0.032	0.91 ± 0.18	0.8652
Entpd1	0.073 ± 0.003	0.048 ± 0.010	0.67 ± 0.14	0.095 ± 0.020	1.31 ± 0.27	0.0545
Fbln1	0.152 ± 0.016	0.012 ± 0.003	0.08 ± 0.02	0.023 ± 0.008	0.15 ± 0.05	0.0004
Fn1	0.139 ± 0.007	0.499 ± 0.155	3.60 ± 1.12	0.293 ± 0.071	2.12 ± 0.51	0.2215
Hapln1	0.0002 ± 0.00003	0.001 ± 0.0003	5.23 ± 1.17	0.001 ± 0.0004	5.13 ± 1.62	0.0151
Hc	0.0002 ± 0.00004	0.002 ± 0.001	6.86 ± 2.34	0.001 ± 0.001	4.81 ± 1.83	0.0109
Icam1	0.081 ± 0.007	0.138 ± 0.024	1.71 ± 0.29	0.098 ± 0.016	1.22 ± 0.20	0.0401
Itga2	0.004 ± 0.001	0.007 ± 0.003	1.72 ± 0.70	0.005 ± 0.001	1.20 ± 0.32	0.3263
Itga3	0.039 ± 0.001	0.061 ± 0.006	1.58 ± 0.14	0.057 ± 0.013	1.47 ± 0.33	0.0099
Itga4	0.007 ± 0.001	0.004 ± 0.001	0.59 ± 0.11	0.003 ± 0.001	0.46 ± 0.18	0.0483
Itga5	0.263 ± 0.011	0.947 ± 0.086	3.60 ± 0.33	0.803 ± 0.111	3.05 ± 0.42	<0.0001
Itgae	0.001 ± 0.0003	0.005 ± 0.001	4.17 ± 0.91	0.003 ± 0.001	2.60 ± 0.70	0.0155
Itgal	0.008 ± 0.001	0.011 ± 0.003	1.36 ± 0.37	0.009 ± 0.003	1.07 ± 0.38	0.5583
Itgam	0.037 ± 0.003	0.422 ± 0.101	11.34 ± 2.72	0.280 ± 0.043	7.51 ± 1.16	0.0002
Itgav	0.164 ± 0.006	0.226 ± 0.011	1.38 ± 0.06	0.185 ± 0.017	1.13 ± 0.10	0.0048
Itgax	0.004 ± 0.001	0.030 ± 0.008	7.06 ± 1.97	0.020 ± 0.010	4.79 ± 2.43	0.0002
Itgb1	2.268 ± 0.148	2.945 ± 0.140	1.30 ± 0.06	2.730 ± 0.227	1.20 ± 0.10	0.4244
Itgb2	0.048 ± 0.006	0.144 ± 0.038	2.98 ± 0.79	0.114 ± 0.035	2.35 ± 0.72	0.2475
Itgb3	0.01 ± 0.001	0.067 ± 0.010	6.74 ± 1.01	0.069 ± 0.014	6.91 ± 1.43	0.0006

Gene	D0	D1 Saline	D1 Saline fold change	D1 MMP-9i	D1 MMP-9i fold change	p value
Itgb4	0.002 ± 0.0002	0.002 ± 0.0002	0.82 ± 0.11	0.001 ± 0.0003	0.75 ± 0.17	0.9458
Lama1	0.0003 ± 0.0001	0.001 ± 0.0003	3.76 ± 0.75	0.001 ± 0.001	3.84 ± 1.97	0.0155
Lama2	0.327 ± 0.012	0.056 ± 0.009	0.17 ± 0.03	0.086 ± 0.020	0.26 ± 0.06	<0.0001
Lama3	0.013 ± 0.001	0.004 ± 0.001	0.29 ± 0.10	0.008 ± 0.002	0.59 ± 0.15	0.0032
Lamb2	1.693 ± 0.047	0.513 ± 0.071	0.30 ± 0.04	0.541 ± 0.052	0.32 ± 0.03	<0.0001
Lamb3	0.045 ± 0.004	0.014 ± 0.004	0.31 ± 0.09	0.015 ± 0.005	0.35 ± 0.12	0.0002
Lamc1	0.748 ± 0.042	0.179 ± 0.035	0.24 ± 0.05	0.210 ± 0.048	0.28 ± 0.06	<0.0001
Mmp10	0.0002 ± 0.00001	0.001 ± 0.0003	7.27 ± 1.42	0.001 ± 0.0003	6.61 ± 1.59	0.0006
Mmp11	0.006 ± 0.001	0.002 ± 0.0002	0.27 ± 0.04	0.001 ± 0.0001	0.23 ± 0.02	0.0006
Mmp12	0.0002 ± 0.00002	0.001 ± 0.0004	6.49 ± 1.59	0.002 ± 0.001	11.07 ± 4.37	0.0155
Mmp13	0.004 ± 0.001	0.004 ± 0.001	1.08 ± 0.14	0.002 ± 0.001	0.51 ± 0.17	0.1252
Mmp14	0.036 ± 0.003	0.160 ± 0.015	4.49 ± 0.42	0.126 ± 0.015	3.55 ± 0.43	<0.0001
Mmp15	0.498 ± 0.029	0.072 ± 0.011	0.15 ± 0.02	0.050 ± 0.009	0.10 ± 0.02	<0.0001
Mmp1a	0.0002 ± 0.00001	0.001 ± 0.0003	5.79 ± 1.48	0.002 ± 0.001	8.11 ± 5.30	0.0185
Mmp2	0.448 ± 0.023	0.049 ± 0.005	0.11 ± 0.01	0.192 ± 0.061	0.43 ± 0.14	0.0002
Mmp3	0.014 ± 0.003	0.126 ± 0.021	8.70 ± 1.43	0.183 ± 0.025	12.66 ± 1.76	0.0001
Mmp7	0.0002 ± 0.00001	0.001 ± 0.0003	6.11 ± 1.33	0.001± 0.0003	3.72 ± 1.33	0.0092
Mmp8	0.002 ± 0.001	0.050 ± 0.012	42.99 ± 10.53	0.050 ± 0.016	43.10 ± 13.76	0.0011
Mmp9	0.002 ± 0.0003	0.033 ± 0.001	20.29 ± 7.26	0.029 ± 0.001	17.69 ± 5.16	0.0005
Ncam1	0.013 ± 0.001	0.022 ± 0.004	1.67 ± 0.31	0.015 ± 0.003	1.11 ± 0.26	0.0845
Ncam2	0.0002 ± 0.000008	0.001 ± 0.0001	5.47 ± 1.39	0.001 ± 0.0003	3.50 ± 1.25	0.0179
Pecam1	0.735 ± 0.155	0.676 ± 0.027	0.92 ± 0.04	0.606 ± 0.034	0.82 ± 0.05	0.0611
Postn	0.071 ± 0.007	0.064 ± 0.009	0.89 ± 0.12	0.071 ± 0.011	0.99 ± 0.16	0.9617
Sele	0.011 ± 0.001	0.055 ± 0.012	4.87 ± 1.03	0.046 ± 0.009	4.02 ± 0.78	0.0005
Sell	0.006 ± 0.001	0.072 ± 0.024	11.13 ± 3.72	0.045 ± 0.012	6.91 ± 1.82	0.0002
Selp	0.004 ± 0.0004	0.393 ± 0.149	103.01 ± 39.15	0.187 ± 0.041	49.07 ± 10.63	0.0003
Sgce	0.09 ± 0.007	0.020 ± 0.004	0.23 ± 0.05	0.032 ± 0.004	0.36 ± 0.04	<0.0001
Sparc	2.013 ± 0.11	1.077 ± 0.203	0.53 ± 0.10	1.053 ± 0.180	0.52 ± 0.09	0.0057
Spock1	0.0002 ± 0.00001	0.001 ± 0.0002	7.08 ± 1.08	0.002± 0.001	8.85 ± 5.98	0.0152
Spp1	0.003 ± 0.002	0.657 ± 0.212	189.68 ± 61.2	0.564 ± 0.344	162.9 ± 99.5	0.0011
Syt1	0.0002 ± 0.00001	0.002 ± 0.0003	8.48 ± 1.64	0.001 ± 0.0003	3.72 ± 1.33	0.0070
Tgfbi	0.36 ± 0.034	1.139 ± 0.378	3.16 ± 1.05	0.827 ± 0.365	2.30 ± 1.01	0.6522
Thbs1	0.088 ± 0.02	1.486 ± 0.205	16.98 ± 2.34	1.234 ± 0.227	14.10 ± 2.59	0.0003
Thbs2	0.159 ± 0.01	0.040 ± 0.004	0.25 ± 0.03	0.054 ± 0.013	0.34 ± 0.08	<0.0001
Thbs3	0.034 ± 0.003	0.013 ± 0.003	0.38 ± 0.08	0.017 ± 0.004	0.50 ± 0.12	0.0102
Timp1	0.0002 ± 0.00003	0.001 ± 0.0003	5.22 ± 1.33	0.001 ± 0.0003	3.41 ± 1.17	0.0099
Timp2	0.588 ± 0.034	0.135 ± 0.016	0.23 ± 0.03	0.185 ± 0.034	0.31 ± 0.06	0.6046
Timp3	0.289 ± 0.038	0.251 ± 0.035	0.87 ± 0.12	0.499 ± 0.156	1.73 ± 0.54	0.1903
Tnc	0.006 ± 0.002	0.401 ± 0.085	69.20 ± 14.71	0.208 ± 0.044	35.83 ± 7.65	0.0001
Vcam1	0.09 ± 0.01	0.026 ± 0.008	0.29 ± 0.09	0.063 ± 0.019	0.70 ± 0.21	0.0032
Vtn	0.371 ± 0.02	0.043 ± 0.014	0.12 ± 0.04	0.052 ± 0.007	0.14 ± 0.02	<0.0001

inhibitor (MMP-9i) treated mice. Samples are left ventricles (LVs) from no MI (D0) or nted as mean±SEM for n=6/group. For the post-test column, 1-D0 vs D1 saline, 2-D0 vs MMP-9i.

D7 Saline	D7 Saline fold change	D7 MMP-9i	D7 MMP-9i fold change	p value	post-test
0.157 ± 0.04	0.74 ± 0.19	0.378 ± 0.069	1.79 ± 0.33	0.0144	2,4,6
1.357 ± 0.24	9.19 ± 1.63	1.974 ± 0.249	13.37 ± 1.69	<0.0001	1,2,4
0.033 ± 0.008	0.93 ± 0.23	0.048 ± 0.004	1.33 ± 0.10	0.1881	1,2
0.016 ± 0.005	2.08 ± 0.68	0.024 ± 0.005	3.01 ± 0.66	0.1562	
1.084 ± 0.228	0.31 ± 0.07	1.635 ± 0.159	0.47 ± 0.05	<0.0001	1,2,3,4,6
0.001 ± 0.0001	2.51 ± 0.49	0.0004 ± 0.0001	1.86 ± 0.31	0.0025	1,3
0.986 ± 0.169	0.52 ± 0.09	1.648 ± 0.102	0.87 ± 0.05	0.0009	1,2,3
0.281 ± 0.062	3.52 ± 0.78	0.457 ± 0.068	5.71 ± 0.86	<0.0001	2,4
0.002 ± 0.0003	4.19 ± 0.59	0.005 ± 0.001	8.73 ± 2.77	0.0028	1,4
1.005 ± 0.176	0.39 ± 0.07	1.548 ± 0.196	0.60 ± 0.08	<0.0001	1,3,4,6
0.001 ± 0.0001	4.89 ± 0.73	0.002 ± 0.0005	10.71 ± 2.40	<0.0001	1,4
0.001 ± 0.0005	0.06 ± 0.02	0.003 ± 0.001	0.13 ± 0.05	0.0002	1,2,3,4
0.001 ± 0.0002	1.96 ± 0.63	0.0003 ± 0.00005	1.01 ± 0.15	0.1294	
15.754 ± 3.705	56.17 ± 13.21	21.208 ± 2.429	75.62 ± 8.66	0.0001	3,4
0.033 ± 0.017	100.3 ± 51.85	0.066 ± 0.036	203.2 ± 111.4	0.0002	1,2,3,4
13.233 ± 3.484	11.12 ± 2.93	35.1 ± 7.989	29.51 ± 6.72	<0.0001	1,4,6
2.393 ± 0.811	1.40 ± 0.47	4.421 ± 0.653	2.58 ± 0.38	0.0164	4,6
2.782 ± 0.782	1.53 ± 0.43	4.237 ± 0.467	2.32 ± 0.26	0.0188	4
0.006 ± 0.002	0.53 ± 0.19	0.006 ± 0.001	0.56 ± 0.10	0.0602	1,2
0.947 ± 0.265	4.37 ± 1.22	2.251 ± 0.376	10.39 ± 1.73	0.0003	2,4,6
1.829 ± 0.706	3.05 ± 1.18	1.932 ± 0.406	3.23 ± 0.68	0.1168	1,2,5
0.224 ± 0.025	4.35 ± 0.49	0.323 ± 0.021	6.27 ± 0.41	<0.0001	1,2,4
8.243 ± 1.745	7.04 ± 1.49	15.084 ± 1.765	12.89 ± 1.51	<0.0001	1,2,4
0.73 ± 0.232	1.61 ± 0.51	1.643 ± 0.229	3.63 ± 0.51	0.0079	4
0.607 ± 0.112	3.37 ± 0.62	0.959 ± 0.146	5.32 ± 0.81	<0.0001	4
0.053 ± 0.017	0.73 ± 0.24	0.087 ± 0.018	1.20 ± 0.25	0.3666	
0.168 ± 0.079	1.11 ± 0.52	0.175 ± 0.056	1.16 ± 0.37	0.7831	1,2
3.276 ± 0.414	23.64 ± 2.99	7.663 ± 1.206	55.29 ± 8.71	<0.0001	4
0.001 ± 0.0001	2.30 ± 0.39	0.001 ± 0.0003	2.96 ± 1.05	0.0125	1,3,4
0.0005 ± 0.00015	1.72 ± 0.42	0.001 ± 0.0003	3.88 ± 1.04	0.0211	1,4
0.059 ± 0.016	0.74 ± 0.20	0.135 ± 0.011	1.67 ± 0.14	0.0014	1,4,6
0.008 ± 0.002	1.97 ± 0.37	0.017 ± 0.002	4.15 ± 0.54	<0.0001	4
0.015 ± 0.005	0.39 ± 0.13	0.027 ± 0.005	0.70 ± 0.13	0.0061	1,3
0.019 ± 0.006	2.66 ± 0.85	0.027 ± 0.005	3.77 ± 0.71	0.2250	2,4
0.216 ± 0.033	0.82 ± 0.13	0.485 ± 0.056	1.85 ± 0.21	0.0003	1,4,6
0.009 ± 0.002	7.37 ± 1.45	0.008 ± 0.001	3.45 ± 1.08	0.0005	1,3,4
0.013 ± 0.004	1.61 ± 0.55	0.015 ± 0.002	1.86 ± 0.20	0.1054	
0.167 ± 0.024	4.47 ± 0.65	0.314 ± 0.052	8.44 ± 1.39	<0.0001	1,2,4
0.647 ± 0.049	3.94 ± 0.30	0.591 ± 0.046	3.60 ± 0.28	0.0003	1,3,4,5
0.052 ± 0.01	12.16 ± 2.25	0.05 ± 0.009	11.80 ± 2.04	0.0006	1,2,3,4
2.654 ± 0.311	1.17 ± 0.14	3.912 ± 0.288	1.73 ± 0.13	0.0011	1,4,6
0.138 ± 0.028	2.84 ± 0.58	0.346 ± 0.063	7.14 ± 1.30	0.0009	4
0.027 ± 0.007	2.72 ± 0.68	0.067 ± 0.006	6.70 ± 0.63	<0.0001	1,2,4

D7 Saline	D7 Saline fold change	D7 MMP-9i	D7 MMP-9i fold change	p value	post-test
0.001 ± 0.0004	0.75 ± 0.23	0.002 ± 0.0003	1.17 ± 0.16	0.2500	
0.001 ± 0.0003	2.67 ± 0.78	0.004 ± 0.001	10.22 ± 2.53	0.0002	1,4
0.189 ± 0.071	0.58 ± 0.22	0.338 ± 0.069	1.03 ± 0.21	0.1735	1,2
0.007 ± 0.003	0.52 ± 0.19	0.008 ± 0.002	0.59 ± 0.17	0.0914	1,2
0.653 ± 0.225	0.39 ± 0.13	0.86 ± 0.114	0.51 ± 0.07	0.0050	1,2,3
0.005 ± 0.002	0.11 ± 0.05	0.004 ± 0.001	0.09 ± 0.02	0.0004	1,2,3,4
0.273 ± 0.135	0.37 ± 0.18	0.652 ± 0.17	0.87 ± 0.23	0.0443	1,2
0.0005 ± 0.0001	2.43 ± 0.58	0.0005 ± 0.0002	2.26 ± 0.61	0.0299	1,2
0.008 ± 0.002	1.34 ± 0.28	0.014 ± 0.003	2.27 ± 0.49	0.0435	1,2
0.001 ± 0.0002	3.26 ± 0.99	0.002 ± 0.001	8.41 ± 2.39	0.0198	1,4
0.004 ± 0.001	1.05 ± 0.15	0.006 ± 0.001	1.47 ± 0.26	0.3351	
0.446 ± 0.055	12.54 ± 1.54	0.69 ± 0.071	19.40 ± 2.00	<0.0001	1,4
0.066 ± 0.037	0.13 ± 0.07	0.08 ± 0.025	0.16 ± 0.05	<0.0001	1,2,3,4
0.0004 ± 0.0001	2.04 ± 0.59	0.0004 ± 0.0001	1.93 ± 0.34	0.0483	1
0.917 ± 0.382	2.04 ± 0.85	1.33 ± 0.331	2.97 ± 0.74	0.2706	1,2
0.015 ± 0.003	1.04 ± 0.17	0.052 ± 0.031	3.58 ± 2.17	0.2846	1,2
0.0004 ± 0.0001	2.04 ± 0.59	0.001 ± 0.0002	2.47 ± 0.75	0.0506	1
0.002 ± 0.001	1.88 ± 0.63	0.014 ± 0.004	11.71 ± 3.54	<0.0001	1,2,4
0.007 ± 0.0001	4.36 ± 2.56	0.001 ± 0.0001	23.93 ± 13.97	0.0685	1,2
0.089 ± 0.016	6.73 ± 1.21	0.112 ± 0.024	8.50 ± 1.82	0.0003	3,4
0.001 ± 0.0002	2.52 ± 0.77	0.001 ± 0.0003	3.03 ± 1.41	0.1482	1
0.245 ± 0.084	0.33 ± 0.11	0.493 ± 0.073	0.67 ± 0.10	0.0221	3
3.41 ± 0.839	47.77 ± 11.75	7.641 ± 2.293	107.0 ± 32.12	0.0001	3,4
0.005 ± 0.002	0.44 ± 0.17	0.009 ± 0.002	0.79 ± 0.15	0.0366	1,2,3
0.015 ± 0.003	2.25 ± 0.51	0.02 ± 0.002	3.04 ± 0.35	0.0033	1,2,4
0.013 ± 0.005	3.52 ± 1.20	0.023 ± 0.002	6.10 ± 0.46	0.0077	1,2,4
0.063 ± 0.019	0.71 ± 0.21	0.114 ± 0.017	1.26 ± 0.19	0.1034	1,2
6.725 ± 0.86	3.34 ± 0.43	15.638 ± 2.155	7.77 ± 1.07	<0.0001	1,2,4
0.0004 ± 0.0001	2.04 ± 0.59	0.0005 ± 0.0001	2.41 ± 0.48	0.1796	1
0.864 ± 0.349	249.4 ± 100.9	3.949 ± 0.999	1140.4 ± 288.6	<0.0001	1,2,4
0.0004 ± 0.0001	2.04 ± 0.59	0.0003 ± 0.00005	1.57 ± 0.24	0.5236	1
0.465 ± 0.116	1.29 ± 0.32	1.455 ± 0.274	4.04 ± 0.76	<0.0001	4
5.099 ± 1.148	58.27 ± 13.12	7.129 ± 1.324	81.48 ± 15.13	0.0002	1,2,3,4
1.039 ± 0.218	6.52 ± 1.37	1.902 ± 0.426	11.93 ± 2.67	0.0001	1,2,3,4
0.113 ± 0.032	3.34 ± 0.94	0.134 ± 0.018	3.99 ± 0.54	0.0003	1,2,3,4
0.001 ± 0.0002	4.96 ± 0.85	0.001 ± 0.0003	5.19 ± 1.18	0.0318	1,3,4
1.94 ± 0.238	3.30 ± 0.41	1.979 ± 0.195	3.36 ± 0.33	0.0006	1,2,3,4
0.438 ± 0.081	1.52 ± 0.28	0.451 ± 0.071	1.56 ± 0.25	0.0176	3,4
0.289 ± 0.069	49.89 ± 11.88	0.741 ± 0.066	127.8 ± 11.46	<0.0001	1,2,4
0.168 ± 0.04	1.85 ± 0.44	0.298 ± 0.051	3.29 ± 0.56	0.0014	1,4
0.083 ± 0.045	0.22 ± 0.12	0.105 ± 0.028	0.28 ± 0.08	0.0003	1,2,3,4

Supplemental Table S3. Inflammatory array for Day 0 (D0) and Day 7 (D7) post-MI LV for saline (S **from no MI (D0) or infarct areas from post-MI LV. Values in the numbered columns are 2-ΔCt val** **column, 1-D0 vs D1 Saline, 2-D0 vs D1 MMP-9i, 3-D0 vs D7 Saline, 4-D0 vs D7 MMP-9i, 5-D1 Saline**

Gene	1. D0	2. D1 Saline	D1 Saline fold change	3. D1 MMP-9i	D1 MMP-9i fold change	p value
Abcf1	0.809 ± 0.025	0.0496 ± 0.068	1.23 ± 0.17	0.522 ± 0.080	1.30 ± 0.2	<0.0001
Bcl6	0.166 ± 0.019	0.094 ± 0.016	1.24 ± 0.21	0.066 ± 0.004	0.86 ± 0.05	0.0044
Cxcr5	0.003 ± 0.001	0.003 ± 0.001	1.39 ± 0.32	0.002 ± 0.0004	0.79 ± 0.17	0.0664
C3	0.926 ± 0.174	0.216 ± 0.024	1.23 ± 0.14	0.175 ± 0.035	1.00 ± 0.20	0.0019
Casp1	0.055 ± 0.007	0.048 ± 0.009	1.31 ± 0.24	0.038 ± 0.007	1.02 ± 0.18	0.5111
Ccl1	0.0005 ± 0.0001	0.001 ± 0.0002	1.41 ± 0.35	0.001 ± 0.0003	1.47 ± 0.46	0.1790
Ccl11	0.014 ± 0.004	0.007 ± 0.002	1.21 ± 0.28	0.011 ± 0.003	1.86 ± 0.53	0.0004
Ccl12	0.041 ± 0.01	0.058 ± 0.020	0.92 ± 0.31	0.054 ± 0.010	0.85 ± 0.16	0.8981
Ccl17	0.001 ± 0.0002	0.012 ± 0.005	0.83 ± 0.36	0.006 ± 0.001	0.40 ± 0.05	0.0411
Ccl19	0.119 ± 0.018	0.061 ± 0.015	1.37 ± 0.35	0.222 ± 0.078	4.96 ± 1.74	0.0817
Ccl2	0.10 ± 0.017	0.809 ± 0.180	1.03 ± 0.23	0.641 ± 0.084	0.82 ± 0.11	0.0009
Ccl20	0.0004 ± 0.0001	0.001 ± 0.0005	1.13 ± 0.42	0.001 ± 0.0003	0.80 ± 0.25	0.1001
Ccl22	0.001 ± 0.001	0.002 ± 0.001	0.99 ± 0.39	0.001 ± 0.0003	0.65 ± 0.13	0.5671
Ccl24	0.004 ± 0.0003	0.003 ± 0.001	0.54 ± 0.56	0.003 ± 0.001	1.74 ± 0.80	0.9395
Ccl25	0.004 ± 0.001	0.002 ± 0.001	0.96 ± 0.40	0.006 ± 0.002	2.46 ± 0.60	0.0020
Ccl3	0.002 ± 0.001	0.019 ± 0.005	0.97 ± 0.23	0.016 ± 0.004	0.79 ± 0.23	0.0090
Ccl4	0.005 ± 0.001	0.092 ± 0.029	1.04 ± 0.33	0.050 ± 0.012	0.57 ± 0.13	0.0138
Ccl5	0.024 ± 0.008	0.010 ± 0.001	1.06 ± 0.10	0.014 ± 0.005	1.50 ± 0.52	0.7975
Ccl6	0.025 ± 0.006	0.084 ± 0.026	0.94 ± 0.30	0.085 ± 0.024	0.95 ± 0.27	0.0700
Ccl7	0.074 ± 0.014	0.412 ± 0.122	0.92 ± 0.27	0.325 ± 0.068	0.73 ± 0.15	0.0186
Ccl8	0.035 ± 0.01	0.004 ± 0.001	1.22 ± 0.19	0.007 ± 0.003	2.10 ± 0.74	0.0384
Ccl9	0.034 ± 0.002	0.117 ± 0.018	1.11 ± 0.17	0.101 ± 0.019	0.95 ± 0.18	0.0014
Ccr1	0.022 ± 0.004	0.132 ± 0.035	0.94 ± 0.25	0.094 ± 0.016	0.67 ± 0.12	0.0004
Ccr2	0.015 ± 0.005	0.078 ± 0.031	0.95 ± 0.37	0.041 ± 0.017	0.51 ± 0.21	0.1150
Ccr3	0.01 ± 0.001	0.021 ± 0.008	0.88 ± 0.34	0.023 ± 0.011	0.95 ± 0.45	0.3016
Ccr4	0.001 ± 0.0002	0.001 ± 0.0002	1.42 ± 0.37	0.002 ± 0.0004	2.5 ± 0.70	0.0901
Ccr5	0.035 ± 0.005	0.032 ± 0.009	1.00 ± 0.39	0.034 ± 0.011	1.07 ± 0.36	0.8496
Ccr6	0.002 ± 0.001	0.002 ± 0.001	1.95 ± 0.93	0.001 ± 0.0003	1.24 ± 0.31	0.9809
Ccr7	0.003 ± 0.001	0.009 ± 0.003	1.18 ± 0.37	0.003 ± 0.001	0.38 ± 0.13	0.0838
Ccr8	0.0003 ± 0.0001	0.002 ± 0.001	1.51 ± 0.64	0.001 ± 0.0003	0.92 ± 0.24	0.0138
Ccr9	0.015 ± 0.003	0.004 ± 0.001	1.06 ± 0.30	0.007 ± 0.002	1.97 ± 0.41	0.1287
Crp	0.0004 ± 0.0001	0.001 ± 0.0002	1.40 ± 0.35	0.001 ± 0.0003	1.59 ± 0.40	0.5125
Cx3cl1	0.117 ± 0.008	0.045 ± 0.009	1.08 ± 0.22	0.052 ± 0.010	1.25 ± 0.24	0.5596
Cxcl1	0.009 ± 0.003	0.039 ± 0.009	1.21 ± 0.28	0.058 ± 0.009	1.80 ± 0.28	0.0030
Cxcl10	0.011 ± 0.004	0.031 ± 0.007	0.99 ± 0.22	0.015 ± 0.003	0.46 ± 0.10	0.0119
Cxcl11	0.002 ± 0.001	0.003 ± 0.002	0.96 ± 0.48	0.001 ± 0.0002	0.38 ± 0.06	0.0259
Cxcl12	1.239 ± 0.045	0.687 ± 0.152	1.38 ± 0.31	0.867 ± 0.088	1.74 ± 0.18	0.5118
Cxcl13	0.004 ± 0.002	0.004 ± 0.002	0.88 ± 0.45	0.004 ± 0.002	0.91 ± 0.43	0.5423
Cxcl15	0.0005 ± 0.0001	0.001 ± 0.001	1.30 ± 0.47	0.001 ± 0.0003	0.95 ± 0.25	0.6828
Pf4	0.102 ± 0.013	0.259 ± 0.057	1.03 ± 0.23	0.174 ± 0.033	0.69 ± 0.13	0.4317
Cxcl5	0.003 ± 0.001	0.197 ± 0.033	0.98 ± 0.16	0.156 ± 0.042	0.78 ± 0.21	0.0003
Cxcl9	0.045 ± 0.009	0.007 ± 0.001	1.05 ± 0.20	0.011 ± 0.003	1.81 ± 0.41	<0.0001
Cxcr3	0.001 ± 0.0004	0.002 ± 0.001	1.03 ± 0.29	0.001 ± 0.0003	0.67 ± 0.17	0.7930

Ccr10	0.024 ± 0.002	0.005 ± 0.002	1.70 ± 0.61	0.003 ± 0.001	1.05 ± 0.37	0.0003
Ifng	0.001 ± 0.0003	0.001 ± 0.0002	1.42 ± 0.37	0.001 ± 0.0003	1.70 ± 0.44	0.9130
Il10	0.001 ± 0.0003	0.012 ± 0.004	0.97 ± 0.30	0.008 ± 0.003	0.67 ± 0.20	0.0039
Il10ra	0.02 ± 0.002	0.022 ± 0.006	0.97 ± 0.27	0.009 ± 0.003	0.42 ± 0.12	0.1065
Il10rb	1.16 ± 0.042	0.269 ± 0.034	1.28 ± 0.16	0.303 ± 0.050	1.44 ± 0.24	0.0136
Il11	0.001 ± 0.0002	0.018 ± 0.011	0.86 ± 0.52	0.010 ± 0.002	0.48 ± 0.10	0.0004
Il13	0.001 ± 0.0003	0.001 ± 0.0005	1.12 ± 0.42	0.001 ± 0.0002	0.98 ± 0.19	0.0590
Il13ra1	0.218 ± 0.016	0.219 ± 0.026	1.07 ± 0.13	0.214 ± 0.035	1.05 ± 0.17	0.4246
Il15	0.363 ± 0.012	0.078 ± 0.018	1.52 ± 0.35	0.083 ± 0.012	1.63 ± 0.24	<0.0001
Il16	0.026 ± 0.002	0.016 ± 0.002	1.16 ± 0.11	0.008 ± 0.001	0.61 ± 0.09	<0.0001
Il17b	0.0005 ± 0.0002	0.002 ± 0.001	1.05 ± 0.36	0.001 ± 0.0003	0.63 ± 0.18	0.0626
Il18	0.009 ± 0.002	0.009 ± 0.001	1.22 ± 0.21	0.007 ± 0.002	0.93 ± 0.29	0.1235
Il1a	0.002 ± 0.0004	0.005 ± 0.002	0.96 ± 0.32	0.003 ± 0.001	0.65 ± 0.17	0.1275
Il1b	0.018 ± 0.006	0.122 ± 0.056	0.88 ± 0.41	0.132 ± 0.037	0.95 ± 0.27	0.0018
Il1f6	0.0004 ± 0.0001	0.001 ± 0.0004	1.17 ± 0.39	0.001 ± 0.0003	0.90 ± 0.28	0.0158
Il1f8	0.001 ± 0.0003	0.003 ± 0.002	0.88 ± 0.63	0.001 ± 0.0002	0.33 ± 0.07	0.0177
Il1r1	0.10 ± 0.007	0.152 ± 0.021	1.26 ± 0.17	0.154 ± 0.013	1.29 ± 0.11	0.0005
Il1r2	0.005 ± 0.002	0.385 ± 0.116	0.94 ± 0.28	0.228 ± 0.040	0.56 ± 0.10	0.0004
Il20	0.001 ± 0.0002	0.001 ± 0.0001	1.13 ± 0.77	0.001 ± 0.0001	0.43 ± 0.12	0.0317
Il2rb	0.002 ± 0.001	0.001 ± 0.0004	1.39 ± 0.38	0.001 ± 0.0003	1.34 ± 0.28	0.2991
Il2rg	0.07 ± 0.006	0.045 ± 0.014	0.973 ± 0.31	0.028 ± 0.003	0.61 ± 0.08	0.0071
Il3	0.0005 ± 0.0002	0.001 ± 0.0003	1.28 ± 0.34	0.002 ± 0.0004	1.94 ± 0.55	0.0151
Il4	0.001 ± 0.0003	0.002 ± 0.001	1.00 ± 0.47	0.001 ± 0.0003	0.61 ± 0.15	0.1078
Il5ra	0.001 ± 0.0002	0.002 ± 0.001	0.96 ± 0.55	0.001 ± 0.0003	0.51 ± 0.13	0.3013
Il6ra	0.052 ± 0.005	0.064 ± 0.008	1.08 ± 0.14	0.066 ± 0.007	1.11 ± 0.12	0.2267
Il6st	0.791 ± 0.164	0.464 ± 0.084	1.03 ± 0.19	0.486 ± 0.066	1.08 ± 0.15	<0.0001
Il8rb	0.007 ± 0.003	0.063 ± 0.023	0.96 ± 0.35	0.030 ± 0.008	0.46 ± 0.12	0.0003
Itgam	0.06 ± 0.008	0.485 ± 0.125	1.02 ± 0.26	0.290 ± 0.051	0.61 ± 0.11	0.0002
Itgb2	0.044 ± 0.007	0.116 ± 0.032	0.98 ± 0.27	0.073 ± 0.019	0.62 ± 0.16	0.1063
Lta	0.0003 ± 0.0001	0.002 ± 0.001	1.05 ± 0.38	0.001 ± 0.0003	0.66 ± 0.19	0.0130
Ltb	0.003 ± 0.001	0.010 ± 0.003	1.02 ± 0.35	0.006 ± 0.003	0.64 ± 0.28	0.5663
Mif	1.135 ± 0.114	1.260 ± 0.261	1.02 ± 0.21	1.007 ± 0.106	0.82 ± 0.09	0.0002
Scye1	0.786 ± 0.047	0.359 ± 0.053	1.08 ± 0.16	0.392 ± 0.050	1.18 ± 0.15	<0.0001
Spp1	0.019 ± 0.007	0.646 ± 0.210	1.05 ± 0.34	0.571 ± 0.249	0.92 ± 0.40	0.0008
Tgfb1	0.22 ± 0.017	0.545 ± 0.065	1.09 ± 0.13	0.315 ± 0.027	0.63 ± 0.06	0.0001
Tnf	0.006 ± 0.002	0.007 ± 0.001	1.25 ± 0.20	0.005 ± 0.001	0.82 ± 0.23	0.2953
Tnfrsf1a	0.161 ± 0.02	0.137 ± 0.030	1.05 ± 0.23	0.117 ± 0.022	0.90 ± 0.17	0.0091
Tnfrsf1b	0.05 ± 0.004	0.055 ± 0.009	1.09 ± 0.18	0.037 ± 0.007	0.73 ± 0.15	0.1970
Cd40lg	0.001 ± 0.0003	0.001 ± 0.0002	1.42 ± 0.37	0.001 ± 0.0003	1.50 ± 0.47	0.0177
Tollip	0.287 ± 0.015	0.139 ± 0.018	1.15 ± 0.15	0.152 ± 0.015	1.26 ± 0.12	<0.0001
Xcr1	0.001 ± 0.0004	0.001 ± 0.0004	1.16 ± 0.36	0.002 ± 0.0004	1.67 ± 0.36	0.0137

aline) or MMP-9 inhibitor (MMP-9i) treated mice. Samples are left ventricles (LVs)
ues X 1000 and are presented as mean±SEM for n=6/group. For the post-test
e vs D1 MMP-9i, and 6-D7 Saline vs D7 MMP-9i.

4. D7 Saline	D7 Saline fold change	5. D7 MMP-9i	D7 MMP-9i fold change	p value	post-test
0.622 ± 0.064	0.77 ± 0.08	0.455 ± 0.028	0.56 ± 0.04	0.0001	1,2,3,4,6
0.108 ± 0.024	0.65 ± 0.14	0.129 ± 0.023	0.78 ± 0.14	0.2110	1,2
0.002 ± 0.0004	0.78 ± 0.15	0.005 ± 0.001	1.78 ± 0.36	0.0370	4,6
0.751 ± 0.249	0.81 ± 0.27	0.747 ± 0.113	0.81 ± 0.12	0.7467	1,2
0.131 ± 0.021	2.37 ± 0.38	0.093 ± 0.02	1.69 ± 0.37	0.0257	3
0.002 ± 0.001	3.87 ± 2.55	0.0005 ± 0.0001	0.95 ± 0.11	0.3096	
0.002 ± 0.001	0.15 ± 0.09	0.003 ± 0.001	0.19 ± 0.05	0.0098	1,2,3,4
0.077 ± 0.023	1.87 ± 0.55	0.149 ± 0.032	3.60 ± 0.78	0.0174	4,6
0.019 ± 0.007	29.11 ± 9.78	0.019 ± 0.003	28.63 ± 5.15	0.0100	3,4
0.138 ± 0.027	1.16 ± 0.23	0.105 ± 0.022	0.88 ± 0.18	0.5871	
0.077 ± 0.017	0.76 ± 0.17	0.154 ± 0.023	1.54 ± 0.23	0.0339	1,2,6
0.001 ± 0.0001	1.62 ± 0.35	0.0003 ± 0.00004	0.85 ± 0.09	0.1384	
0.004 ± 0.003	5.21 ± 4.17	0.002 ± 0.0004	1.96 ± 0.48	0.4629	
0.001 ± 0.0002	0.18 ± 0.04	0.001 ± 0.00009	0.14 ± 0.03	<0.0001	3,4
0.007 ± 0.001	1.63 ± 0.27	0.007 ± 0.001	1.66 ± 0.33	0.1675	1
0.006 ± 0.002	3.40 ± 1.10	0.016 ± 0.003	8.89 ± 1.69	0.0008	1,2
0.026 ± 0.006	4.94 ± 1.12	0.042 ± 0.012	8.03 ± 2.30	0.0146	1,4
0.07 ± 0.033	2.90 ± 1.38	0.053 ± 0.013	2.20 ± 0.52	0.3244	
0.015 ± 0.003	0.61 ± 0.10	0.043 ± 0.01	1.72 ± 0.39	0.0359	6
0.077 ± 0.026	1.04 ± 0.35	0.193 ± 0.047	2.60 ± 0.63	0.0295	1,2,4,6
0.084 ± 0.029	2.41 ± 0.81	0.149 ± 0.041	4.27 ± 0.16	0.0445	4
0.044 ± 0.006	1.26 ± 0.16	0.082 ± 0.021	2.39 ± 0.60	0.0361	1,2,4,6
0.029 ± 0.003	1.34 ± 0.15	0.082 ± 0.021	3.78 ± 0.95	0.0002	1,2,4,6
0.051 ± 0.017	3.35 ± 1.10	0.13 ± 0.022	8.53 ± 1.44	0.0005	4,6
0.053 ± 0.018	5.11 ± 1.79	0.141 ± 0.022	13.74 ± 2.12	0.0002	4,6
0.002 ± 0.001	2.06 ± 0.8	0.001 ± 0.0003	1.11 ± 0.40	0.3374	
0.145 ± 0.041	4.09 ± 1.15	0.27 ± 0.068	7.62 ± 1.91	0.0087	4
0.006 ± 0.003	3.54 ± 2.02	0.004 ± 0.001	2.61 ± 0.92	0.4258	
0.011 ± 0.003	4.03 ± 1.25	0.009 ± 0.002	3.49 ± 0.92	0.0737	
0.001 ± 0.0004	3.49 ± 1.30	0.0004 ± 0.0001	1.30 ± 0.22	0.0752	1
0.005 ± 0.002	0.37 ± 0.13	0.006 ± 0.001	0.42 ± 0.05	0.0160	3,4
0.001 ± 0.0001	1.59 ± 0.41	0.0003 ± 0.00004	0.90 ± 0.10	0.2177	
0.347 ± 0.079	2.95 ± 0.67	0.337 ± 0.048	2.86 ± 0.41	0.0135	3,4
0.005 ± 0.002	0.60 ± 0.21	0.004 ± 0.0005	0.44 ± 0.05	0.2267	1,2
0.071 ± 0.026	6.23 ± 2.25	0.07 ± 0.017	6.16 ± 1.51	0.0518	1
0.001 ± 0.0003	0.43 ± 0.11	0.001 ± 0.0004	0.50 ± 0.16	0.0508	2
0.948 ± 0.104	0.76 ± 0.08	1.23 ± 0.083	0.99 ± 0.07	0.0364	
0.038 ± 0.035	8.96 ± 8.24	0.005 ± 0.003	1.23 ± 0.78	0.4292	
0.001 ± 0.0001	1.25 ± 0.31	0.001 ± 0.0001	1.23 ± 0.25	0.7919	
0.082 ± 0.019	0.81 ± 0.18	0.445 ± 0.117	1.37 ± 1.15	0.0030	4
0.005 ± 0.002	1.86 ± 0.56	0.022 ± 0.006	7.53 ± 2.26	0.0077	1,2,4,6
0.038 ± 0.032	0.86 ± 0.71	0.021 ± 0.006	0.47 ± 0.14	0.6761	1,2
0.009 ± 0.003	9.03 ± 2.84	0.013 ± 0.002	12.23 ± 1.77	0.0029	3,4

0.017 ± 0.003	0.70 ± 0.14	0.015 ± 0.002	0.62 ± 0.10	0.0771	1,2
0.001 ± 0.0005	1.57 ± 0.52	0.001 ± 0.0001	0.75 ± 0.16	0.3238	
0.003 ± 0.001	2.28 ± 0.75	0.003 ± 0.001	2.59 ± 0.42	0.0402	1
0.072 ± 0.015	3.54 ± 0.76	0.107 ± 0.02	5.26 ± 0.97	0.0027	3,4
0.472 ± 0.094	0.41 ± 0.08	0.549 ± 0.052	0.47 ± 0.04	<0.0001	1,2,3,4
0.002 ± 0.0004	1.79 ± 0.42	0.003 ± 0.001	3.14 ± 0.65	0.0180	1,2,4
0.001 ± 0.0004	2.23 ± 0.73	0.0004 ± 0.0001	0.72 ± 0.13	0.1403	
0.23 ± 0.03	1.06 ± 0.14	0.243 ± 0.03	1.12 ± 0.14	0.7867	
0.099 ± 0.018	0.27 ± 0.05	0.104 ± 0.012	0.29 ± 0.03	<0.0001	1,2,3,4
0.015 ± 0.004	0.58 ± 0.13	0.028 ± 0.004	1.06 ± 0.15	0.0356	1,2,3,5,6
0.001 ± 0.0004	2.11 ± 0.81	0.0003 ± 0.00004	0.72 ± 0.08	0.1683	
0.022 ± 0.004	2.58 ± 0.46	0.034 ± 0.003	3.95 ± 0.38	0.0002	3,4,6
0.002 ± 0.001	1.16 ± 0.40	0.001 ± 0.001	0.70 ± 0.3	0.5702	
0.02 ± 0.009	1.12 ± 0.47	0.037 ± 0.006	2.02 ± 0.33	0.1561	1,2
0.001 ± 0.0003	2.17 ± 0.95	0.0003 ± 0.00004	0.89 ± 0.10	0.2331	1
0.001 ± 0.0001	1.04 ± 0.27	0.0003 ± 0.00004	0.58 ± 0.07	0.5196	
0.242 ± 0.029	2.40 ± 0.29	0.276 ± 0.026	2.75 ± 0.26	0.0002	1,2,3,4
0.012 ± 0.003	2.60 ± 0.61	0.04 ± 0.026	8.33 ± 5.39	0.2528	1,2
0.001 ± 0.0001	0.91 ± 0.23	0.001 ± 0.0001	0.57 ± 0.08	0.4384	
0.007 ± 0.003	3.12 ± 1.27	0.007 ± 0.003	3.48 ± 1.23	0.2192	
0.072 ± 0.027	1.03 ± 0.39	0.117 ± 0.022	1.68 ± 0.31	0.2098	1,2
0.001 ± 0.0003	1.94 ± 0.69	0.0003 ± 0.00004	0.71 ± 0.08	0.1889	2
0.002 ± 0.0004	1.23 ± 0.28	0.001 ± 0.0002	0.60 ± 0.12	0.1556	
0.001 ± 0	1.55 ± 0.68	0.0005 ± 0.0001	0.93 ± 0.20	0.5714	
0.089 ± 0.015	1.71 ± 0.28	0.151 ± 0.01	2.88 ± 0.20	<0.0001	3,4,6
0.674 ± 0.163	0.85 ± 0.21	1.08 ± 0.174	1.37 ± 0.22	0.2419	1,2
0.002 ± 0.001	0.21 ± 0.08	0.006 ± 0.002	0.82 ± 0.30	0.1693	1,2
0.169 ± 0.031	2.81 ± 0.51	0.299 ± 0.037	4.98 ± 0.61	<0.0001	1,2,4
0.137 ± 0.043	3.1 ± 0.97	0.301 ± 0.047	6.8 ± 1.05	0.0014	4
0.001 ± 0.0001	2.7 ± 0.48	0.0005 ± 0.0001	1.56 ± 0.40	0.0200	1,3
0.007 ± 0.002	2.5 ± 0.61	0.009 ± 0.002	3.07 ± 0.71	0.0508	4
0.967 ± 0.225	0.85 ± 0.20	1.32 ± 0.236	1.16 ± 0.21	0.7834	
0.354 ± 0.057	0.45 ± 0.07	0.416 ± 0.053	0.53 ± 0.07	<0.0001	1,2,3,4
1.23 ± 0.789	65.23 ± 41.87	4.315 ± 0.953	228.9 ± 50.56	0.0021	1,2,4
0.345 ± 0.066	1.57 ± 0.30	0.471 ± 0.052	2.14 ± 0.24	0.0096	1,5
0.003 ± 0.001	0.46 ± 0.19	0.006 ± 0.001	0.90 ± 0.17	0.1543	
0.119 ± 0.027	0.74 ± 0.17	0.215 ± 0.034	1.33 ± 0.21	0.0772	2
0.082 ± 0.019	1.64 ± 0.38	0.194 ± 0.044	3.89 ± 0.88	0.0057	4,6
0.001 ± 0.0002	1.63 ± 0.39	0.001 ± 0.001	1.55 ± 1.01	0.7889	
0.124 ± 0.013	0.43 ± 0.05	0.148 ± 0.016	0.52 ± 0.05	<0.0001	1,2,3,4
0.01 ± 0.008	8.84 ± 6.84	0.003 ± 0.001	2.77 ± 0.65	0.3671	2