

**Supplemental Table 2. Fold Change in Gene Expression
Belomycin treated vs. Vehicle Control**

	Accession	Gene Symbol	Gene Description
18.669702	NM_133871	Ifi44	interferon-induced protein 44
7.619522	NM_023386	Rtp4	receptor transporter protein 4
-6.76966527	NM_001099298	Scn2a1	sodium channel, voltage-gated, type II, alpha 1
-11.6962569	XM_975226	Naaladl2	N-acetylated alpha-linked acidic dipeptidase-like 2
7.119591667	NM_001161432	Eda2r	ectodysplasin A2 isoform receptor
-16.5455518	NM_011126	Plunc	palate, lung, and nasal epithelium associated
5.952082404	NM_021394	Zbp1	Z-DNA binding protein 1
5.387052033	NM_021384	Rsad2	radical S-adenosyl methionine domain containing 2
8.221809814	NM_013473	Anxa8	annexin A8 (basal cell marker?)
5.2005565	NM_016850	Irf7	interferon regulatory factor 7
5.1510552	NM_198095	Bst2	STRO-1 MSC antigen
4.101924677	NM_029017	Mrpl47	mitochondrial ribosomal protein L47
3.9708518	NM_011150	Lgals3bp	lectin, galactoside-binding, soluble, 3 binding protein
3.651457655	NM_011854	Oasl2	2'-5' oligoadenylate synthetase-like 2
4.23280052	NM_008651	Mybl1	myeloblastosis oncogene-like 1
4.000384022	NM_015783	Isg15	ISG15 ubiquitin-like modifier
3.3203009	NM_00114627	Iigp1	interferon inducible GTPase 1
3.645611938	NM_016785	Tpmt	thiopurine methyltransferase
10.62575538	AF357363	Snord16a	small nucleolar RNA, C/D box 16A
3.1383723	NM_172689	Ddx58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58
4.073577907	NM_025480	Tmem128	transmembrane protein 128
5.382280203	NM_178695	Prrg4	proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane)
2.93211665	NM_144861	Rprd1a	regulation of nuclear pre-mRNA domain containing 1A
6.410540492	NM_016982	Vpreb1	pre-B lymphocyte gene 1
4.646474531	NM_007915	Ei24	etoposide induced 2.4 mRNA
-2.85894725	NM_001039244	Gm7120	predicted gene 7120
2.890388661	NM_018734	Gbp3	guanylate binding protein 3
5.123254287	NM_153592	Erlin2	ER lipid raft associated 2
5.9029802	NM_009855	Cd80	CD80 antigen
2.820967412	NM_013750	Phlda3	pleckstrin homology-like domain, family A, member 3
3.26673743	NR_004419	Rny1	RNA, Y1 small cytoplasmic, Ro-associated
2.920064021	NM_011704	Vnn1	vanin 1
3.759589119	NM_021897	Trp53inp1	transformation related protein 53 inducible nuclear protein 1
3.494143841	NM_139198	Plac8	placenta-specific 8
3.8889711	NM_008827	Pgf	placental growth factor - survival factor
3.1412995	NM_029803	Ifi2712a	interferon, alpha-inducible protein 27 like 2A
3.306837151	NM_144543	Thyn1	thymocyte nuclear protein 1
3.726275905	NM_001081298	Lphn2	latrophilin 2
4.725611408	BC085269	Rps13	ribosomal protein S13
2.780173656	NM_021392	Ap4m1	adaptor-related protein complex AP-4, mu 1
3.8557366	NM_175649	Tnfrsf26	tumor necrosis factor receptor superfamily, member 26
4.630750409	BC103775	Fam136a	family with sequence similarity 136, member A
3.518196346	NM_008326	Irgm1	immunity-related GTPase family M member 1
5.419202284	NR_003508	Mx2	myxovirus (influenza virus) resistance 2
-4.9859105	NM_009114	S100a9	S100 calcium binding protein A9 (calgranulin B)
2.6017232	NM_00108140	Adamts3	a disintegrin-like and metallopeptidase
2.855712019	NM_172603	Phf11	PHD finger protein 11
3.388567476	NM_053158	Mrpl1	mitochondrial ribosomal protein L1
2.708964523	NM_134092	Mtbp	transformed 3T3 cell double minute p53 binding protein
4.397696371	NM_011909	Usp18	ubiquitin specific peptidase 18
4.113059665	NM_146265	Olf1506	olfactory receptor 1506
4.113059665	NM_146265	Olf1506	olfactory receptor 1506
2.838393282	NM_016781	Prkag1	protein kinase, AMP-activated, gamma 1 non-catalytic subunit
2.983207853	NM_001081024	Setdb2	SET domain, bifurcated 2

**Supplemental Table 2. Fold Change in Gene Expression
Belomycin treated vs. Vehicle Control**

3.182809919	NM_016923	Ly96	lymphocyte antigen 96
3.639746567	NM_010501	Ifit3	interferon-induced protein with tetratricopeptide repeats 3
3.0278495	NM_010786	Mdm2	transformed mouse 3T3 cell double minute 2
3.417802423	NM_183405	Cox6b2	cytochrome c oxidase subunit VIb polypeptide 2
3.438350218	NM_009099	Trim30	tripartite motif-containing 30
-2.45473196	NM_019661	Ykt6	YKT6 homolog (S. Cerevisiae)
4.584764085	NM_145825	Cetn4	centrin 4
2.799155239	NR_004410	Snord87	small nucleolar RNA, C/D box 87
2.354374791	NM_133227	Nup155	nucleoporin 155
4.7528949	NM_026493	Cspp1	centrosome and spindle pole associated protein 1
2.616187606	NM_010145	Ephx1	epoxide hydrolase 1, microsomal
2.34445242	NM_178760	Gpr107	G protein-coupled receptor 107
2.37084361	NM_030724	Uck2	uridine-cytidine kinase 2
2.495930911	NM_018859	Akr1e1	aldo-keto reductase family 1, member E1
3.895278554	AF357394	Snora44	small nucleolar RNA, H/ACA box 44
-2.41467077	NM_030691	Igsf6	immunoglobulin superfamily, member 6
2.688778665	NM_026004	Nt5c3	5'-nucleotidase, cytosolic III
-8.6317106	NM_054038	Scgb3a2	secretoglobin, family 3A
2.3889837	NM_010510	Ifnb1	interferon beta 1, fibroblast
2.831333121	ENSMUST000000000000	Herc5	hect domain and RLD 5
2.392909774	NM_019817	Copz1	coatamer protein complex, subunit zeta 1
2.672045362	NM_008332	Ifit2	interferon-induced protein with tetratricopeptide repeats 2
3.295729873	NM_028451	Larp1	La ribonucleoprotein domain family, member 1
2.669711784	NM_133744	Ccdc71	coiled-coil domain containing 71
2.161568416	NM_019921	Akap10	A kinase (PRKA) anchor protein 10
2.480018702	NM_029868	Gbbp1l1	GC-rich promoter binding protein 1-like 1
-2.60989814	NM_026389	Poldip2	polymerase (DNA-directed), delta interacting protein 2
5.65481764	NM_008331	Ifit1	interferon-induced protein with tetratricopeptide repeats 1
2.908638495	ENSMUST000000000000	Tcrp-V3	T-cell receptor gamma, variable 3
3.1931338	Z31359	Npn2	neoplastic progression 2
3.060461034	NM_027835	Ifih1	interferon induced with helicase C domain 1
2.27169004	NM_008765	Orc2l	origin recognition complex, subunit 2-like (S. cerevisiae)
-3.08829806	NM_029210	Sv2c	synaptic vesicle glycoprotein 2c
-4.58468782	NM_001099298	Scn2a1	sodium channel, voltage-gated, type II, alpha 1
2.853259571	NM_028049	Fbxo22	F-box protein 22
2.163892006	NM_001162855	Nsmce4a	non-SMC element 4 homolog A (S. cerevisiae)
2.564292794	NM_001081215	Ddx60	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60
-2.52452069	NM_153581	Gpm6a	glycoprotein m6a
2.157031134	NM_007898	Ebp	phenylalkylamine Ca ²⁺ antagonist (emopamil) binding protein
2.113917392	NM_177601	Tmem60	transmembrane protein 60
2.421601544	NM_145950	Osgin2	oxidative stress induced growth inhibitor family member 2
-2.45973177	NM_011237	Rad9	RAD9 homolog (S. pombe)
2.827661647	NM_172662	Gtdc1	glycosyltransferase-like domain containing 1
2.858476639	NM_181545	Slfn8	schlafen 8
2.341708504	NM_008867	Pla2r1	phospholipase A2 receptor 1
3.155591595	NM_181588	Cmb1	carboxymethylenebutenolidase-like (Pseudomonas)
2.780769185	NM_029573	Idh3a	isocitrate dehydrogenase 3 (NAD ⁺) alpha
2.55989121	NM_029005	Mlkl	mixed lineage kinase domain-like
-2.46344711	NM_153801	Tecr1	trans-2,3-enoyl-CoA reductase-like
2.411449336	NM_025517	Rtcd1	RNA terminal phosphate cyclase domain 1
-2.28147841	NM_008287	Hrsp12	heat-responsive protein 12
-3.55840816	NM_001001452	Tas2r143	taste receptor, type 2, member 143
2.074522062	NM_025853	Dsn1	MIND kinetochore complex component, homolog
2.707025542	NM_007485	Rhod	ras homolog gene family, member D
2.952800731	NM_001033430	Jhdm1d	jumonji C domain-containing histone demethylase 1 homolog D

**Supplemental Table 2. Fold Change in Gene Expression
Belomycin treated vs. Vehicle Control**

-2.27075727	NM_013670	Snrpn	small nuclear ribonucleoprotein N
2.450024201	NM_026637	Ggct	gamma-glutamyl cyclotransferase
1.938806736	AK173199	Rnf213	ring finger protein 213
2.301051065	NM_026493	Cspp1	centrosome and spindle pole associated protein 1
2.031445978	NM_025691	Srp72	signal recognition particle 72
2.70878333	NM_008859	Prkcq	protein kinase C, theta
-4.12460224	NM_001159492	Gpatch8	G patch domain containing 8
2.207646992	NM_009250	Serpini1	serine (or cysteine) peptidase inhibitor, clade I, member 1
2.44240932	NM_145211	Oas1a	2'-5' oligoadenylate synthetase 1A
2.118551207	NM_015786	Hist1h1c	histone cluster 1, H1c
2.211746439	NM_178337	Tbce	tubulin-specific chaperone E
2.866067326	NM_001004140	Ckap2	cytoskeleton associated protein 2
2.458614424	NM_146235	Erc61	excision repair cross-complementing rodent repair deficiency
2.264170339	NM_009890	Ch25h	cholesterol 25-hydroxylase
2.372622374	NM_026521	Zfp706	zinc finger protein 706
-2.24611532	NM_001081977	Rnf144a	ring finger protein 144A
2.137663101	NM_183145	Zfp748	zinc finger protein 748
2.4174834	NM_177290	Itgb8	integrin beta 8
1.921875659	NM_009103	Rrm1	ribonucleotide reductase M1
2.266018281	NM_175523	Ppm1k	protein phosphatase 1K (PP2C domain containing)
6.978255882	NM_011315	Saa3	serum amyloid A 3
2.387502924	NM_010360	Gstm5	glutathione S-transferase, mu 5
2.101364599	NM_001039530	Parp14	poly (ADP-ribose) polymerase family, member 14
2.105764354	NM_027698	Eri2	exoribonuclease 2
2.827659687	NM_011163	Eif2ak2	eukaryotic translation initiation factor 2-alpha kinase 2
2.0943717	NM_00104438	Timp1	tissue inhibitor of metalloproteinase 1
2.431453498	NM_030563	N4bp1	NEDD4 binding protein 1
2.253165052	NM_011075	Abcb1b	ATP-binding cassette, sub-family B (MDR/TAP), member 1B
2.3483403	NM_013654	Ccl7	chemokine (C-C motif) ligand 7
1.892276617	NM_027193	Dph5	DPH5 homolog (S. cerevisiae)
1.89758104	NM_030066	Armcx1	armadillo repeat containing, X-linked 1
2.975880305	NM_011882	Rnasel	ribonuclease L (2', 5'-oligoadenylate synthetase-dependent)
1.862498805	NM_026665	Cep57	centrosomal protein 57
2.381745066	NM_008012	Akr1b8	aldo-keto reductase family 1, member B8
-2.80470493	NM_028770	Krt80	keratin 80
2.561503743	NM_172470	Wdr35	WD repeat domain 35
2.763662608	NM_001015099	G2e3	G2/M-phase specific E3 ubiquitin ligase
2.050692249	NM_001005247	Hps5	Hermansky-Pudlak syndrome 5 homolog (human)
1.966833728	NM_172685	Slc25a24	solute carrier family 25
-2.14814369	NM_001081426	Dip2c	DIP2 disco-interacting protein 2 homolog C (Drosophila)
2.320152284	NM_080557	Snx4	sorting nexin 4
1.998410552	NM_207000	H2afy2	H2A histone family, member Y2
1.898958004	NM_175628	A2m	alpha-2-macroglobulin
3.086148535	NM_026662	Prps2	phosphoribosyl pyrophosphate synthetase 2
-2.1738253	NM_001042489	Hvcn1	hydrogen voltage-gated channel 1
2.464552989	NM_021498	Pole3	polymerase (DNA directed), epsilon 3 (p17 subunit)
2.2761064	NM_009810	Casp3	caspase 3
2.980056121	NM_144515	Zfp52	zinc finger protein 52
2.36473169	NM_028031	Zdhhc13	zinc finger, DHHC domain containing 13
2.280074556	NM_001039521	Rrn3	RRN3 RNA polymerase I transcription factor homolog (yeast)
1.813732256	NM_178653	Sccpdh	saccharopine dehydrogenase (putative)
1.923532893	NM_001081013	Rlf	rearranged L-myc fusion sequence
1.965180052	NM_010651	Klra9	killer cell lectin-like receptor subfamily A, member 9
2.074678804	NM_028394	Hspb11	heat shock protein family B (small), member 11
2.995784815	NM_029019	Stard6	STAR-related lipid transfer (START) domain containing 6

**Supplemental Table 2. Fold Change in Gene Expression
Belomycin treated vs. Vehicle Control**

2.127306632	NM_026963	Lzic	leucine zipper and CTNNBIP1 domain containing
2.087362982	NM_146074	Tfb1m	transcription factor B1, mitochondrial
1.886689484	NM_010787	Mea1	male enhanced antigen 1
2.1735918	NM_024290	Tnfrsf23	tumor necrosis factor receptor superfamily, member 23
2.664757962	NM_029019	Stard6	STAR-related lipid transfer (START) domain containing 6
1.803325092	NM_025649	Mad2l1bp	MAD2L1 binding protein
1.891128636	NM_016903	Esd	esterase D/formylglutathione hydrolase
1.968057675	NM_146484	Olfr197	olfactory receptor 197
1.765336244	NM_025338	Aurkaip1	aurora kinase A interacting protein 1
2.859513071	NM_138756	Slc25a36	solute carrier family 25, member 36
1.839469812	NM_008214	Hars	histidyl-tRNA synthetase
-2.17196447	NM_025499	Eid3	EP300 interacting inhibitor of differentiation 3
1.970128867	NM_021557	Rdh11	retinol dehydrogenase 11
2.48168413	AK049819	Gabarapl2	(GABA) A receptor-associated protein-like 2
1.854924543	NM_018851	Samhd1	SAM domain and HD domain, 1
1.941513851	NM_030150	Dhx58	DEXH (Asp-Glu-X-His) box polypeptide 58
2.132489296	NM_001024508	Brd9	bromodomain containing 9
1.949567357	NM_016856	Cpsf2	cleavage and polyadenylation specific factor 2
1.747247521	NM_001013806	Ankrd13c	ankyrin repeat domain 13c
-1.9883483	AJ132685	Snord96a	small nucleolar RNA, C/D box 96A
-1.95915358	NM_178256	Reps2	RALBP1 associated Eps domain containing protein 2
2.499406399	NM_146141	Ppa2	pyrophosphatase (inorganic) 2
2.520125359	NM_019571	Tspan5	tetraspanin 5
1.700048023	NM_00108140	Adamts3	a disintegrin-like and metallopeptidase
-1.78577213	NM_033648	Fxyd4	FXD domain-containing ion transport regulator 4
2.515522336	NM_021367	Tslp	thymic stromal lymphopietin
-2.00819728	ENSMUST000000	Stard9	START domain containing 9
2.035242214	NM_030684	Trim34	tripartite motif-containing 34
-2.20085409	NM_001085376	Pappa2	pappalysin 2
-4.22150669	NM_007817	Cyp2f2	cytochrome P450, family 2, subfamily f, polypeptide 2
1.8118267	NM_021274	Cxcl10	chemokine (C-X-C motif) ligand 10
1.907683716	BC057057	Crkrs	CDC2-related kinase, arginine/serine-rich
1.924952038	NM_012002	Cops6	COP9 (constitutive photomorphogenic) homolog, subunit 6
2.025452848	NM_134136	Fbxo38	F-box protein 38
2.544265981	NM_001033132	Comm6	COMM domain containing 6
2.874387367	NM_007530	Bcap29	B-cell receptor-associated protein 29
1.750347049	NM_011949	Mapk1	mitogen-activated protein kinase 1
1.740251719	NM_013895	Timm13	translocase of inner mitochondrial membrane 13 homolog
1.978117329	NM_016903	Esd	esterase D/formylglutathione hydrolase
2.080808936	NM_001110239	Acp1	acid phosphatase 1, soluble
2.457851921	NM_146097	Cbwd1	COBW domain containing 1
2.427659356	NM_175187	Tmem161b	transmembrane protein 161B
2.133678782	NM_009462	Usp10	ubiquitin specific peptidase 10
2.194943038	NM_028262	Setd3	SET domain containing 3
2.055104136	NM_198961	Vmn2r43	vomer nasal 2, receptor 43
2.208744435	NM_025377	Fam33a	family with sequence similarity 33, member A
2.197585048	NM_025417	Comm4	COMM domain containing 4
-2.2482555	NM_001161765	Fmo5	flavin containing monooxygenase 5
-1.86467862	NM_013526	Gdf6	growth differentiation factor 6
1.780931467	NM_172255	Brwd2	bromodomain and WD repeat domain containing 2
-1.75261486	NM_001114660	Scfd2	Sec1 family domain containing 2
3.8344921	NM_009969	Csf2	colony stimulating factor 2 (granulocyte-macrophage)
2.281801036	NM_024436	Rab22a	RAB22A, member RAS oncogene family
-2.09125502	NM_001039532	Zfp784	zinc finger protein 784
1.762515567	NM_030736	V1rd14	vomer nasal 1 receptor, D14

**Supplemental Table 2. Fold Change in Gene Expression
Belomycin treated vs. Vehicle Control**

2.107736473	NM_025283	Mobk13	MOB1, Mps One Binder kinase activator-like 3 (yeast)
1.839399687	NM_008014	Ppm1g	protein phosphatase 1G (formerly 2C), magnesium-dependent
1.946729589	NM_175285	Tmem62	transmembrane protein 62
1.841600334	NM_010322	Gnpat	glyceronephosphate O-acyltransferase
2.0745573	NM_007527	Bax	BCL2-associated X protein
1.962807923	NM_001042499	Rabl3	RAB, member of RAS oncogene family-like 3
1.764949617	NM_019734	Asah1	N-acylsphingosine amidohydrolase 1
2.209752053	NM_025390	Pop4	processing of precursor 4, ribonuclease P/MRP family
1.963505991	NM_175489	Osbpl8	oxysterol binding protein-like 8
2.4736793	NM_007950	Ereg	epiregulin
2.260120198	NM_011399	Slc25a17	solute carrier family 25, member 17
1.778977791	NM_181411	Aftph	aftiphilin
1.796143355	NM_146165	Aimp2	aminoacyl tRNA synthetase complex-interacting protein 2
1.6566295	NM_013929	Siva1	SIVA1, apoptosis-inducing factor
1.999550891	NM_007563	Bpgm	2,3-bisphosphoglycerate mutase
2.171045558	NM_025578	Mrps25	mitochondrial ribosomal protein S25
1.964878357	NM_020584	Terf2ip	telomeric repeat binding factor 2, interacting protein
1.889710194	NM_026075	Sfrs12ip1	SFRS12-interacting protein 1
2.040735208	NR_027492	Hspa13	heat shock protein 70 family, member 13
-1.97599185	NM_027884	Tns1	tensin 1
2.043401923	NM_026422	Mrrf	mitochondrial ribosome recycling factor
2.143930294	NM_027013	Scnm1	sodium channel modifier 1
2.227770319	NM_030686	Dhrs4	dehydrogenase/reductase (SDR family) member 4
2.020290143	NM_023585	Ube2v2	ubiquitin-conjugating enzyme E2 variant 2
2.000745272	NM_172796	Slfn9	schlafen 9
2.494671754	XR_034252	H2-t9	MHC class Ib T9
2.025464782	NM_023585	Ube2v2	ubiquitin-conjugating enzyme E2 variant 2
2.076106568	NM_024251	Ap1f	aprataxin and PNKP like factor
1.686308508	NM_146142	Tdrd7	tudor domain containing 7
2.217030319	NM_028387	Macro2	MACRO domain containing 2
3.697954567	AF357396	Snora34	small nucleolar RNA, H/ACA box 34
-1.97626169	NM_009127	Scd1	stearoyl-Coenzyme A desaturase 1
2.906266496	NM_172612	Rnd1	Rho family GTPase 1
1.906973109	NM_030131	Cnih4	cornichon homolog 4 (Drosophila)
2.010786628	NM_145428	Dhrs7b	dehydrogenase/reductase (SDR family) member 7B
1.883041767	NM_030253	Parp9	poly (ADP-ribose) polymerase family, member 9
1.680694489	NM_153198	Hbp1	high mobility group box transcription factor 1
1.738433643	NM_021556	Mrps30	mitochondrial ribosomal protein S30
-2.4732533	NM_008522	Ltf	lactotransferrin
1.749472516	NM_008466	Kpna3	karyopherin (importin) alpha 3
-2.31107647	NM_001085376	Pappa2	pappalysin 2
2.456150561	NM_001013802	Macro2	MACRO domain containing 2
2.030899713	NM_026479	Zcchc10	zinc finger, CCHC domain containing 10
1.648409862	BC060679	Fam178a	family with sequence similarity 178, member A
-2.21329384	NM_008860	Prkcz	protein kinase C, zeta
2.286424055	NM_030730	Rad54l2	RAD54 like 2 (S. cerevisiae)
2.289491169	NM_010266	Gda	guanine deaminase
1.791956977	NM_181039	Lphn1	latrophilin 1
1.972340997	NM_025372	Tipin	timeless interacting protein
1.758257657	NM_011955	Nubp1	nucleotide binding protein 1
2.187483296	NM_133748	Insig2	insulin induced gene 2
1.759331687	NM_001005509	Eif2a	eukaryotic translation initiation factor 2a
-1.79888443	NM_028127	Frmd6	FERM domain containing 6
2.333932763	NM_178907	Mapkapk3	mitogen-activated protein kinase-activated protein kinase 3
2.277906451	NM_024413	Plekhf1	pleckstrin homology domain containing, family F

**Supplemental Table 2. Fold Change in Gene Expression
Belomycin treated vs. Vehicle Control**

1.987449909	NM_024214	Tom20	translocase of outer mitochondrial membrane 20 homolog
2.0229217	NM_022032	Perp	PERP, TP53 apoptosis effector
-2.08625933	NM_134154	Slc25a45	solute carrier family 25, member 45
2.75835855	NM_009264	Sprr1a	small proline-rich protein 1A
1.673882198	NM_027423	Polr3b	polymerase (RNA) III (DNA directed) polypeptide B
1.65287314	NM_001045481	Ifi203	interferon activated gene 203
2.110000002	NM_172054	Txnrc9	thioredoxin domain containing 9
1.881324874	NM_175552	Wdr3	WD repeat domain 3
1.7610196	NM_010754	Smad2	MAD homolog 2 (Drosophila)
1.897119425	NM_023605	Fbxo9	f-box protein 9
1.689554045	NM_026545	Psmd8	proteasome (prosome, macropain) 26S subunit, non-ATPase, 8
1.853556382	NM_009517	Zmat3	zinc finger matrix type 3
2.497930782	NM_194336	Mpa2l	macrophage activation 2 like
1.941828111	NM_025683	Rpe	ribulose-5-phosphate-3-epimerase
-1.572306	NM_010091	Dvl1	dishevelled, dsh homolog 1 (Drosophila)
1.935710228	NM_001113533	Wtap	Wilms' tumour 1-associating protein
-1.64106172	NM_019588	Plce1	phospholipase C, epsilon 1
-1.65202612	NM_172261	Ppp1r9b	protein phosphatase 1, regulatory subunit 9B
-1.60968233	NM_008157	Gpr19	G protein-coupled receptor 19
1.587871318	NM_026453	Mak16	MAK16 homolog (S. cerevisiae)
1.596503261	NM_027238	Ttc39b	tetratricopeptide repeat domain 39B
-2.11020111	NM_011929	Clcn6	chloride channel 6
1.818906646	NM_024441	Hspb2	heat shock protein 2
-1.83547186	NM_172134	Pdxk	pyridoxal (pyridoxine, vitamin B6) kinase
2.742568206	NM_177030	Dock6	dedicator of cytokinesis 6
2.250381348	NM_145825	Cetn4	centrin 4
1.643878873	NM_023128	Palm	paralemmin
-2.47833034	NM_021466	Taf1a	TATA box binding protein (Tbp)-associated factor
1.8454728	NM_183417	Cdk2	cyclin-dependent kinase 2
-1.87390719	NM_007960	Etv1	ets variant gene 1
-1.72759195	NM_027884	Tns1	tensin 1
-1.97643362	NM_013811	Dnahc8	dynein, axonemal, heavy chain 8
1.813301721	NM_199035	Alg8	asparagine-linked glycosylation 8 homolog
2.074652201	NM_145545	Gbp6	guanylate binding protein 6
1.644924081	NM_013522	Frg1	FSHD region gene 1
-1.65506743	NM_029568	Mfap4	microfibrillar-associated protein 4
-1.60427003	NM_026385	Plip	plasma membrane proteolipid
-1.77150188	NM_001037707	Zfp27	zinc finger protein 27
1.552706876	NM_025899	Uqcrc2	ubiquinol cytochrome c reductase core protein 2
2.891959804	NM_203507	Rwdd4a	RWD domain containing 4A
-1.6660694	NM_172263	Pde8b	phosphodiesterase 8B
2.501804402	NM_013651	Sf3a2	splicing factor 3a, subunit 2
1.67191152	NM_026406	Rnf115	ring finger protein 115
1.848031695	NM_019417	Pdlim4	PDZ and LIM domain 4
-1.92345956	NM_013860	Limd1	LIM domains containing 1
1.908010354	NM_026836	Taf11	TAF11 RNA polymerase II, TATA box binding protein
1.901766339	NM_027091	Nup35	nucleoporin 35
-2.0408413	NM_019910	Dcpp1	demilune cell and parotid protein 1
3.111660149	NM_025901	Polr3k	polymerase (RNA) III (DNA directed) polypeptide K
1.647305347	NM_025478	Isoc1	isochorismatase domain containing 1
2.004576534	NM_025332	Gtpbp8	GTP-binding protein 8 (putative)
1.811386612	NM_027226	Fyttd1	forty-two-three domain containing 1
1.817397501	NM_007638	Cct7	chaperonin containing Tcp1, subunit 7 (eta)
1.845591801	NM_029508	Pcgf5	polycomb group ring finger 5
2.39872455	NM_031159	Apobec1	apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1

**Supplemental Table 2. Fold Change in Gene Expression
Belomycin treated vs. Vehicle Control**



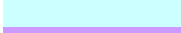

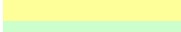
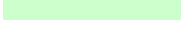
1.6966394	NM_023190	Acin1	apoptotic chromatin condensation inducer 1
2.124615832	NM_008186	Gtf2h1	general transcription factor II H, polypeptide 1
1.960476026	NM_023835	Trim12	tripartite motif-containing 12
1.728546004	NM_028990	Tmem168	transmembrane protein 168
-1.71609688	NM_015820	Hs6st3	heparan sulfate 6-O-sulfotransferase 3
2.037075568	NM_024214	Tomm20	translocase of outer mitochondrial membrane 20 homolog
1.899825615	NM_001013371	Dtx3l	deltex 3-like (Drosophila)
1.590734981	NM_019505	Dgke	diacylglycerol kinase, epsilon
-2.20851556	NM_001024720	Hmcn1	hemicentin 1
-1.72923926	NM_172467	Zc3hav1l	zinc finger CCCH-type, antiviral 1-like
1.744224207	NM_030143	Ddit4l	DNA-damage-inducible transcript 4-like
-2.16739484	NM_008557	Fxyd3	FXYP domain-containing ion transport regulator 3
-1.61977621	NM_009824	Cbfa2t3	core-binding factor, runt domain, alpha subunit 2
-1.54613522	NM_019864	Atr	ataxia telangiectasia and Rad3 related
1.8799353	NM_011052	Pdcd6ip	programmed cell death 6 interacting protein
1.523114077	BC064462	Cep192	centrosomal protein 192
-1.57358924	NM_178389	Gale	galactose-4-epimerase, UDP
2.256332995	NM_013594	Mbd1	methyl-CpG binding domain protein 1
1.821981739	NM_178690	Rab3gap1	RAB3 GTPase activating protein subunit 1
-2.64487584	NM_144917	Elmod3	ELMO/CED-12 domain containing 3
2.3465448	NM_018761	Cttnal1	catenin (cadherin associated protein), alpha-like 1
1.892945664	NM_001035854	Ap2b1	adaptor-related protein complex 2, beta 1 subunit
1.932356793	NM_001081223	Rbbp8	retinoblastoma binding protein 8
1.733347604	NM_030715	Polh	polymerase (DNA directed), eta (RAD 30 related)
1.670633184	NM_026851	Mrpl52	mitochondrial ribosomal protein L52
-1.98078528	NM_198617	Tspyl3	TSPY-like 3
1.899485238	NM_028608	Glpr1	GLI pathogenesis-related 1 (glioma)
1.6662334	NM_001033333	Serpina3f	serine (or cysteine) peptidase inhibitor, clade A,3F
-1.9762932	NM_024178	Alg14	asparagine-linked glycosylation 14 homolog (yeast)
1.633407775	BC068129	Fam83d	family with sequence similarity 83, member D
1.547484544	NM_009752	Glb1	galactosidase, beta 1
1.68146063	NM_008971	Twf1	twinfilin, actin-binding protein, homolog 1 (Drosophila)
1.668960141	EF651808	Hn1l	hematological and neurological expressed 1-like
3.058236547	NM_021365	Xlr4b	X-linked lymphocyte-regulated 4B
-1.529299	NM_001033525	Kcnk6	potassium inwardly-rectifying channel, subfamily K, member 6
2.143110889	NM_029338	Rsph9	radial spoke head 9 homolog (Chlamydomonas)
-3.12805635	NM_001081426	Dip2c	DIP2 disco-interacting protein 2 homolog C (Drosophila)
-2.01718653	NM_133792	Pla2g15	phospholipase A2, group XV
1.619282275	NM_173743	Apol9b	apolipoprotein L 9b
-1.63887293	NM_027844	Krtap5-2	keratin associated protein 5-2
1.572807384	NM_001024720	Hmcn1	hemicentin 1
-1.68378683	NM_023179	Atp6v1g2	ATPase, H+ transporting, lysosomal V1 subunit G2
3.4319333	NM_009141	Cxcl5	chemokine (C-X-C motif) ligand 5
1.717151107	NM_007713	Clk3	CDC-like kinase 3
1.687387711	NM_001081401	Adamts3	a disintegrin-like and metallopeptidase
2.01857893	NM_018818	Chm	choroideremia
-1.75982015	NM_001033393	Tmem104	transmembrane protein 104
1.636924748	NM_001033275	Glt8d3	glycosyltransferase 8 domain containing 3
1.889667625	NM_172648	Ifi205	interferon activated gene 205
1.592706572	NM_001081264	Alg6	asparagine-linked glycosylation 6 homolog
1.635352339	NM_153591	Nars2	asparaginyl-tRNA synthetase 2 (mitochondrial)(putative)
1.507395509	NM_030736	V1rd14	vomer nasal 1 receptor, D14
2.000998381	NM_013717	B9d1	B9 protein domain 1
1.6716659	NM_009830	Ccne2	cyclin E2
1.839348051	NM_007697	Chl1	cell adhesion molecule with homology to L1CAM

**Supplemental Table 2. Fold Change in Gene Expression
Belomycin treated vs. Vehicle Control**

2.471809397	NM_010408	Hcn1	hyperpolarization-activated, cyclic nucleotide-gated K+ 1
1.73912424	NM_011816	G3bp2	GTPase activating protein (SH3 domain) binding protein 2
1.579446971	NM_023258	Pycard	PYD and CARD domain containing
1.969051029	NM_021312	Wdr12	WD repeat domain 12
1.527620833	NM_023697	Rdh14	retinol dehydrogenase 14 (all-trans and 9-cis)
2.346388654	NM_133358	Zfp617	zinc finger protein 617
1.49401538	NM_011592	Timm44	translocase of inner mitochondrial membrane 44
1.83795953	NM_001025246	Trp53i11	transformation related protein 53 inducible protein 11
1.607081952	NM_008249	Tfb2m	transcription factor B2, mitochondrial
2.254190591	NM_011568	Thoc4	THO complex 4
1.614941046	NM_026553	Yif1a	Yip1 interacting factor homolog A (S. cerevisiae)
1.934718942	NM_175012	Grp	gastrin releasing peptide
1.764522101	NM_019787	Sec23b	SEC23B (S. cerevisiae)
1.852314409	NM_130877	Peg10	paternally expressed 10
1.845457483	NM_152808	Slc44a2	solute carrier family 44, member 2
-1.90068506	NM_021433	Stx6	syntaxin 6
2.254606251	NM_152825	Usp45	ubiquitin specific peptidase 45
2.142236113	NM_026887	Ap1s2	adaptor-related protein complex 1, sigma 2 subunit
-1.59301627	NM_001033155	Dnajb14	DnaJ (Hsp40) homolog, subfamily B, member 14
1.916906541	NM_001123327	Qser1	glutamine and serine rich 1
-1.50690764	NM_021356	Gab1	growth factor receptor bound protein 2-associated protein 1
-1.67660403	NM_178772	Nceh1	arylacetamide deacetylase-like 1
1.709366199	NM_144826	Utp6	UTP6, small subunit (SSU) processome component
2.407398545	NM_027764	Rcbtb1	regulator of chromosome condensation (RCC1)
2.413730326	NM_001113460	Tec	tec protein tyrosine kinase
1.653403677	NM_008444	Kif3b	kinesin family member 3B
1.675028915	NM_025349	Lsm7	LSM7 homolog, U6 small nuclear RNA associated (S. cerevisiae)
1.478959453	NM_175127	Fbxo28	F-box protein 28
1.891247926	NM_133688	Lym5	LYR motif containing 5
1.915333344	NM_053159	Mrpl3	mitochondrial ribosomal protein L3
-1.50043207	NM_023485	Sync	syncoilin
1.5087408	NM_007669	Cdkn1a	cyclin-dependent kinase inhibitor 1A (P21)
1.548309083	NM_010799	Minpp1	multiple inositol polyphosphate histidine phosphatase 1
1.724627154	NM_025570	Mrpl20	mitochondrial ribosomal protein L20
1.698391434	NM_021312	Wdr12	WD repeat domain 12
-1.57149317	NM_001039532	Zfp784	zinc finger protein 784
2.712312672	NM_023422	Hist1h2bc	histone cluster 1, H2bc
1.664550338	NM_013841	Vps45	vacuolar protein sorting 45 (yeast)
-1.60731088	NM_019472	Myo10	myosin X
1.560684047	NM_010291	Gjb5	gap junction protein, beta 5
3.340079635	NM_011207	Ptpn3	protein tyrosine phosphatase, non-receptor type 3
1.523619334	NM_001039169	Eif4e2	eukaryotic translation initiation factor 4E member 2
1.625982804	NM_024221	Pdhb	pyruvate dehydrogenase (lipoamide) beta
1.873415621	NM_176930	Nrcam	neuron-glia-CAM-related cell adhesion molecule
-2.00236572	ENSMUST000001	Eif4e	eukaryotic translation initiation factor 4E
1.68048306	NM_010708	Lgals9	lectin, galactose binding, soluble 9
-1.61641652	NM_145465	Stk24	serine/threonine kinase 24 (STE20 homolog, yeast)
2.528401367	NM_029578	Tgds	TDP-glucose 4,6-dehydratase
1.9651712	NM_013929	Siva1	SIVA1, apoptosis-inducing factor
-1.68254956	NM_145506	Epb4.1l5	erythrocyte protein band 4.1-like 5
-1.54238882	NM_198634	Tigd3	tigger transposable element derived 3
1.481781267	NM_026279	Bend5	BEN domain containing 5
2.022785021	NM_019440	Irgm2	immunity-related GTPase family M member 2
1.669315327	NM_001159544	Frk	fyn-related kinase
1.569891659	NM_019685	Ruvbl1	RuvB-like protein 1

**Supplemental Table 2. Fold Change in Gene Expression
Belomycin treated vs. Vehicle Control**

1.735712497	NM_010163	Ext2	exostoses (multiple) 2
1.8168509	NM_011333	Ccl2	chemokine (C-C motif) ligand 2
1.938548729	NM_027453	Btf3l4	basic transcription factor 3-like 4
2.2130369	NM_00102506	Lrig	leucine-rich repeats and immunoglobulin-like domains 2
2.343121069	NM_010846	Mx1	myxovirus (influenza virus) resistance 1
1.6726748	NM_021500	Maea	macrophage erythroblast attacher
-1.46909226	NM_145496	Dak	dihydroxyacetone kinase 2 homolog (yeast)
1.878142463	NM_138596	Med10	mediator of RNA polymerase II transcription, subunit 10
-1.65422445	NM_027884	Tns1	tensin 1
1.6267009	NM_00100149	Tnip3	TNFAIP3 interacting protein 3
1.56316384	NM_133941	Dhx32	DEAH (Asp-Glu-Ala-His) box polypeptide 32
1.444877818	NM_026582	Gpr177	G protein-coupled receptor 177
-1.55235014	NM_145927	Fntb	farnesyltransferase, CAAX box, beta
-1.49370371	NM_009338	Acat2	acetyl-Coenzyme A acetyltransferase 2

	mobilization
	immune modulation
	cell cycle
	apoptosis
	fibrosis
	TGF and Wnt signaling