

APPENDIX

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Appendix Table S1. The list of primers used for PCR analyses.

Gene	Forward primer (5'-3')	Reverse primer (5'-3')
Nestin	AGA CAC CTG TGC CAG CCT TTC	CTG CTG CAA GCT GCT TAC CAC
SOX2	GCC CTG CAG TAC AAC TCC AT	TGG AGT GGG AGG AAG AGG TA
Musashi-1	GTT TCG GCT TCG TCA CTT TC	GAG TCA CCA TCT TGG GCT GT
GFAP	GGG ATG GAG AGG TCA TTA AGG	GGG TGA GTT TCT TGT TAG TTG G
TUJ1	TGC GTG TGT ACA GGT GAA TGC	AGG CTG CAT AGT CAT TTC CAA G
NANOG	AGC TAC AAA CAG GTG AAG AC	CTC CAG GTT GAA TTG TTC CA
Bmi1	AAA GAT ACT TAC GAT GCC CAG	GAA GTG GAC CAT TCC TTC TC
CD133	GAA CAA GTT TAC AGT GAC TGC	TGC GTT GAA GTA TCT TTG ACG
Olig2	CGT CGT CCA CCA CCA AGA AGG AC	TGT GCC TAC GGC ATG ACC TC
L1CAM	TCA CGG GCA ACA ACA GCA ACT	CGG CTT CCT GTC AAT CAT GCT
MYC	TCA AGA GGC GAA CAC ACA AC	GGC CTT TTC ATT GTT TTC CA
OCT4	GGT TCT ATT TGG GAA GGT ATT CAG	GGT TTC TGC TTT GCA TAT CTC
i-NOS	CCT GAG CTC TTC TTC GAA ATC C	AGG ATG TTG TAG CGC TGG AC
VEGF	TAC CTC CAC CAT GCC AAG TG	AAG ATG TCC ACC AGG GTC TC
PSMB5	ACT TCC CTT ACG CAA CAT GG	GCC TAG CAG GTA TGG GTT GA
PSMB6	GGC GGA CTC CAG AAC AAC C	CCA GTG GAG GCT CAT TCA GT
PSMB7	CTG TGT CGG TGT ATG CGC CA	GCA ACA ACC ATC CCT TCA GT

Appendix Table S2. Microarray data. Fold change (greater than two-fold) in gene expression of GSCs treated with MG132 compared with control.

Target ID	Gene symbol	Fold change of gene expression (MG132 over control)
ILMN_2374865	ATF3	30.97
ILMN_1811767	INHBE	11.73
ILMN_1671791	PCK2	11.69
ILMN_1751598	SESN2	9.66
ILMN_2188862	GDF15	9.43
ILMN_1800512	HMOX1	9.23
ILMN_1796417	ASNS	8.80
ILMN_1702933	ADM2	8.58
ILMN_1795963	OKL38	8.13
ILMN_2398107	ASNS	8.09
ILMN_1775304	DNAJB1	7.45
ILMN_1787815	TRIB3	7.35
ILMN_2137789	KLF4	7.13
ILMN_1739423	RN7SK	7.09
ILMN_1738407	ULBP1	6.58
ILMN_1676984	DDIT3	6.55
ILMN_1658383	HSPA6	6.55
ILMN_2110908	MYC	6.35
ILMN_2358457	ATF4	6.01
ILMN_1659936	PPP1R15A	5.56
ILMN_2390310	C17orf91	5.53
ILMN_1801122	LOC401317	5.53
ILMN_2319588	OSGIN1	5.49
ILMN_1806165	HSPA6	5.28
ILMN_3210914	LOC344887	5.12
ILMN_2134888	TUBE1	5.02

Appendix Table S2. Continued.

Target ID	Gene symbol	Fold change of gene expression (MG132 over control)
ILMN_2374164	HERPUD1	4.92
ILMN_2374159	HERPUD1	4.92
ILMN_1655229	SLC7A11	4.85
ILMN_1813019	DNAJB4	4.79
ILMN_1661599	DDIT4	4.74
ILMN_1660436	HSPA1B	4.69
ILMN_1694671	ZFAND2A	4.54
ILMN_1748124	TSC22D3	4.43
ILMN_2074860	RN7SK	4.38
ILMN_1680618	MYC	4.35
ILMN_1691884	STC2	4.33
ILMN_2222317	DNAJB4	4.25
ILMN_1779857	KLF4	4.10
ILMN_2376403	TSC22D3	4.19
ILMN_2181892	BEX2	4.06
ILMN_2305112	CTH	4.05
ILMN_1788547	GCLM	4.02
ILMN_1684158	GPT2	4.01
ILMN_1711894	MYB	-3.14
ILMN_2111237	MN1	-3.17
ILMN_3256478	LOC100129034	-3.34
ILMN_1685608	NPTX2	-3.80
ILMN_1743367	FZD4	-3.83
ILMN_1778755	TRIL	-4.23
ILMN_1773117	BCOR	-4.24
ILMN_1794803	NDP	-4.64
ILMN_1663080	LFNG	-4.68

Appendix Table S3. Microarray data. Fold change (greater than two-fold) in gene expression of DFCs treated with MG132 compared with control.

Target ID	Gene symbol	Fold change of gene expression (MG132 over control)
ILMN_2374865	ATF3	5.27
ILMN_2374159	HERPUD1	4.44
ILMN_1795963	OKL38	4.33
ILMN_1806165	HSPA6	4.24
ILMN_1694671	ZFAND2A	4.15
ILMN_1660436	HSPA1B	4.04
ILMN_2319588	OSGIN1	3.92
ILMN_2374164	HERPUD1	3.79
ILMN_1665554	BRF2	3.63
ILMN_1813019	DNAJB4	3.47
ILMN_1703684	NAP1L2	3.46
ILMN_2390310	C17orf91	3.34
ILMN_1800512	HMOX1	3.22
ILMN_1775304	DNAJB1	3.21
ILMN_1658383	HSPA6	3.20
ILMN_1676984	DDIT3	3.10
ILMN_1753490	C10orf39	3.10
ILMN_1804822	SRXN1	3.09
ILMN_1773742	DNAJB9	3.08
ILMN_2222317	DNAJB4	3.05
ILMN_1746633	C9orf25	3.01
ILMN_1652072	MGC42105	-2.54
ILMN_1767556	C10orf10	-2.67
ILMN_1794803	NDP	-2.77
ILMN_1740426	RASD1	-2.78
ILMN_1663080	LFNG	-2.85
ILMN_2340259	PDE4B	-2.85
ILMN_1691860	SPRY1	-3.24
ILMN_2329914	SPRY1	-3.99
ILMN_1773117	BCOR	-4.07

Appendix Table S4. Microarray data. Fold change difference (greater than two-fold difference) in gene expression between GSCs and DFCs treated with MG132.

Target ID	Gene symbol	Fold change in GSCs (MG132 / ctrl)	Fold change in DFCs (MG132 / ctrl)	Fold change difference (GSCs - DFCs)
ILMN_2374865	ATF3	30.97	5.27	25.70
ILMN_1671791	PCK2	11.69	1.39	10.30
ILMN_1811767	INHBE	11.73	2.61	9.12
ILMN_1751598	SESN2	9.66	1.91	7.75
ILMN_2188862	GDF15	9.43	2.14	7.29
ILMN_1702933	ADM2	8.58	2.52	6.05
ILMN_1661599	DDIT4	4.74	-1.30	6.04
ILMN_1800512	HMOX1	9.23	3.22	6.01
ILMN_1796417	ASNS	8.80	2.81	5.99
ILMN_2137789	KLF4	7.13	1.16	5.97
ILMN_2398107	ASNS	8.09	2.25	5.84
ILMN_2376403	TSC22D3	4.19	-1.55	5.73
ILMN_1748124	TSC22D3	4.43	-1.30	5.73
ILMN_1707312	NFIL3	4.00	-1.12	5.12
ILMN_1739423	RN7SK	7.09	2.07	5.01
ILMN_1738407	ULBP1	6.58	1.62	4.96
ILMN_1787815	TRIB3	7.35	2.44	4.91
ILMN_1802205	RHOB	3.04	-1.29	4.33
ILMN_1656369	C8orf4	2.90	-1.43	4.33
ILMN_1775304	DNAJB1	7.45	3.21	4.24
ILMN_1651799	SLC38A2	3.20	-1.03	4.23
ILMN_1740426	RASD1	1.39	-2.78	4.18
ILMN_2375879	VEGFA	2.98	-1.17	4.15
ILMN_1775380	SMOX	3.10	-1.02	4.12
ILMN_1778523	KLF9	1.82	-2.20	4.02
ILMN_2261076	NEDD9	2.52	-1.39	3.91
ILMN_1801122	LOC401317	5.53	1.66	3.87
ILMN_2048388	ZNF643	2.79	-1.05	3.84

Appendix Table S4. Continued.

Target ID	Gene symbol	Fold change in GSCs (MG132 / ctrl)	Fold change in DFCs (MG132 / ctrl)	Fold change difference (GSCs - DFCs)
ILMN_1795963	OKL38	8.13	4.33	3.80
ILMN_1659936	PPP1R15A	5.56	1.78	3.78
ILMN_1665510	ERRFI1	2.51	-1.20	3.71
ILMN_2134888	TUBE1	5.02	1.38	3.64
ILMN_1697448	TXNIP	1.43	-2.16	3.59
ILMN_1803882	VEGFA	2.30	-1.28	3.58
ILMN_1757129	TMEM88	2.52	-1.07	3.58
ILMN_2063584	CLIC4	2.50	-1.02	3.52
ILMN_2197365	RGS2	2.30	-1.22	3.52
ILMN_1680390	GCNT2	-2.20	1.27	3.47
ILMN_1676984	DDIT3	6.55	3.10	3.45
ILMN_1758281	CALCRL	2.17	-1.22	3.40
ILMN_1738095	PER2	2.28	-1.11	3.39
ILMN_2110908	MYC	6.35	2.97	3.39
ILMN_2358457	ATF4	6.01	2.64	3.37
ILMN_1658383	HSPA6	6.55	3.20	3.35
ILMN_1731714	CREB5	2.22	-1.13	3.34
ILMN_1733579	EVI2A	1.27	-2.06	3.34
ILMN_1719695	NFKBIZ	2.06	-1.26	3.32
ILMN_1700257	C4orf32	2.08	-1.20	3.29
ILMN_1687768	NCOA7	2.23	-1.04	3.27
ILMN_1789244	SOX8	-2.08	1.16	3.24
ILMN_1669605	LOC646609	2.19	-1.03	3.21
ILMN_2154836	BTG3	2.15	-1.04	3.19
ILMN_3246214	B3GNT1	-2.03	1.12	3.15
ILMN_1691884	STC2	4.33	1.21	3.13
ILMN_2400644	SRGAP3	-2.11	1.01	3.11
ILMN_3225244	TSEN15	2.10	-1.01	3.11

Appendix Table S4. Continued.

Target ID	Gene symbol	Fold change in GSCs (MG132 / ctrl)	Fold change in DFCs (MG132 / ctrl)	Fold change difference (GSCs - DFCs)
ILMN_2184612	C3orf52	-1.10	2.01	3.11
ILMN_1752810	LARP6	2.09	-1.01	3.10
ILMN_2207562	C4orf16	2.01	-1.09	3.10
ILMN_1811616	EEPD1	-2.07	1.03	3.09
ILMN_1712112	RCAN1	1.06	-2.00	3.07
ILMN_1779857	KLF4	4.19	1.14	3.05
ILMN_3210914	LOC344887	5.12	2.15	2.97
ILMN_1788547	GCLM	4.02	1.11	2.91
ILMN_1655229	SLC7A11	4.85	1.97	2.87
ILMN_2181892	BEX2	4.06	1.22	2.85
ILMN_1714445	SLC6A9	3.77	1.14	2.63
ILMN_2074860	RN7SK	4.38	1.79	2.59
ILMN_1747205	JDP2	3.84	1.28	2.56
ILMN_1778755	TRIL	-4.23	-1.68	2.54
ILMN_1684158	GPT2	4.01	1.58	2.43
ILMN_1679041	SLC3A2	3.99	1.71	2.28
ILMN_2390310	C17orf91	5.53	3.34	2.20
ILMN_2367258	SMOX	3.19	1.03	2.17
ILMN_2329914	SPRY1	-1.84	-3.99	2.15
ILMN_2147114	PSPH	3.36	1.24	2.11
ILMN_3242462	UHRF1BP1	3.15	1.06	2.09
ILMN_1794875	AGPAT9	3.18	1.14	2.04
ILMN_1696066	CARS	3.48	1.46	2.02
ILMN_1685608	NPTX2	-3.81	-1.79	2.01

Appendix Table S5. Microarray data. Fold change in the expression of ER stress response-associated genes between GSCs and DFCs treated with MG132.

Target ID	Gene symbol	Fold change in GSCs (MG132 / ctrl)	Fold change in DFCs (MG132 / ctrl)	Fold change difference (GSCs - DFCs)
ILMN_2374865	ATF3	30.97	5.27	25.70
ILMN_1661599	DDIT4	4.74	-1.30	6.04
ILMN_1659936	PPP1R15A	5.56	1.78	3.78
ILMN_1787815	TRIB3	7.35	2.44	4.91
ILMN_1775304	DNAJB1	7.45	3.21	4.24
ILMN_2358457	ATF4	6.01	2.64	3.37
ILMN_2110908	MYC	6.35	2.97	3.39
ILMN_1676984	DDIT3	6.55	3.10	3.45
ILMN_2098446	PMAIP1	3.37	2.03	1.34
ILMN_1806023	JUN	2.30	1.53	0.77
ILMN_2222317	DNAJB4	4.25	3.05	1.20
ILMN_2365465	XBP1	2.94	2.19	0.75
ILMN_2374164	HERPUD1	4.93	3.79	1.14
ILMN_1773742	DNAJB9	2.65	3.08	-0.43