Supplemental Table 1:
Genes that are significantly downregulated following *Six1/2-2* RNAi

		Fold change	
gene ID	**Gene name/Blast to human**	***Six1/2* d8**	***Six 1/2* d15**
SMED_06225_V2	POU class 3 homeobox 3 [Homo sapiens];NP_006227	-1.96	-2.73
SMED_20428_V2	POU domain, class 3, transcription factor 1 [Homo sapiens];NP_002690	-1.72	-2.05
SMED_06225_V2	POU class 3 homeobox 3 [Homo sapiens];NP_006227	-1.63	-2.22
SMED_20428_V2	POU domain, class 3, transcription factor 1 [Homo sapiens];NP_002690	-1.48	-1.64
SMED_08876_V2	placental alkaline phosphatase preproprotein [Homo sapiens];NP_001623	-1.43	-2.52
SMED_11465_V2	placental alkaline phosphatase preproprotein [Homo sapiens];NP_001623	-1.34	-2.22
SMED_26293_V2	quaking homolog, KH domain RNA binding isoform HQK-7B [Homo sapiens];NP_996737	-1.22	-1.65
SMED_07082_V2	furry-like [Homo sapiens];NP_055845	-1.19	-2.96
SMED_13636_V2	L-plastin [Homo sapiens];NP_002289	-1.13	-3.14
SMED_06184_V2	PREDICTED: hypothetical protein, partial [Homo sapiens];XP_001716140	-1.12	-2.18
SMED_02296_V2	coatomer protein complex, subunit alpha isoform 2 [Homo sapiens];NP_004362	-1.10	-1.41
SMED_21809_V2	cubilin precursor [Homo sapiens];NP_001072	-0.90	-2.78
SMED_08788_V2	sodium/hydrogen exchanger regulatory factor 1 [Homo sapiens];NP_004243	-0.85	-1.57
SMED_28523_V2	synaptotagmin I [Homo sapiens];NP_001129278	-0.83	-1.70
SMED_29161_V2	cubilin precursor [Homo sapiens];NP_001072	-0.82	-2.53
SMED_37386_V2	Down syndrome critical region protein 3 [Homo sapiens];NP_006043	-0.81	-0.54
SMED_29213_V2	placental alkaline phosphatase preproprotein [Homo sapiens];NP_001623	-0.77	-1.00
SMED_10365_V2	CD9 antigen [Homo sapiens];NP_001760	-0.76	-1.91
SMED_29212_V2	placental alkaline phosphatase preproprotein [Homo sapiens];NP_001623	-0.66	-0.87
SMED_04194_V2	carbonic anhydrase XIII [Homo sapiens];NP_940986	-0.66	-1.09
SMED_28174_V2	sal-like 1 isoform a [Homo sapiens];NP_002959	-0.65	-1.13
SMED_22190_V2	LSM14 homolog B [Homo sapiens];NP_653304	-0.65	-0.53
SMED_28916_V2	solute carrier family 6 member 9 isoform 1 [Homo sapiens];NP_008865	-0.64	-0.62
SMED_07082_V2	furry-like [Homo sapiens];NP_055845	-0.61	-1.00
SMED_02759_V2	ring finger protein 167 precursor [Homo sapiens];NP_056343	-0.61	-1.03
SMED_26752_V2	carbonic anhydrase XIV precursor [Homo sapiens];NP_036245	-0.60	-1.57

SMED_11393_V2	acid sphingomyelinase-like phosphodiesterase 3B isoform 1 [Homo sapiens];NP_055289	-0.58	-0.59
SMED_11796_V2	tRNA-yW synthesizing protein 3 homolog isoform 1 [Homo sapiens];NP_612476	-0.57	-0.33
SMED_36970_V2	ankyrin repeat domain 28 [Homo sapiens];NP_056014	-0.56	-0.45
SMED_00684_V2	carbonic anhydrase VII isoform 1 [Homo sapiens];NP_005173	-0.51	-1.72
SMED_08765_V2	SH3 and multiple ankyrin repeat domains 3 [Homo sapiens];NP_001073889	-0.50	-0.44
SMED_34595_V2	carbonic anhydrase VII isoform 2 [Homo sapiens];NP_001014435	-0.50	-1.67
SMED_08027_V2	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1 [Homo sapiens];NP_064541	-0.49	-0.31
SMED_14080_V2	mucolipin 1 [Homo sapiens];NP_065394	-0.49	-0.59
SMED_33441_V2	nucleoporin 98kD isoform 3 [Homo sapiens];NP_005378	-0.47	-0.31
SMED_16612_V2	ATPase type 13A3 [Homo sapiens];NP_078800	-0.47	-0.51
SMED_27699_V2	alpha 2 type V collagen preproprotein [Homo sapiens];NP_000384	-0.46	-0.62
SMED_09982_V2	solute carrier family 22 member 5 [Homo sapiens];NP_003051	-0.46	-0.32
SMED_24789_V2	solute carrier family 6 member 9 isoform 1 [Homo sapiens];NP_008865	-0.46	-1.74
SMED_06502_V2	solute carrier family 6 member 2 [Homo sapiens];NP_001034	-0.46	-1.75
SMED_25974_V2	alpha 2 type VI collagen isoform 2C2a precursor [Homo sapiens];NP_478054	-0.46	-0.44
SMED_29162_V2	cubilin precursor [Homo sapiens];NP_001072	-0.44	-1.03
SMED_10860_V2	solute carrier family 5 (sodium/glucose cotransporter), member 12 [Homo sapiens];NP_848593	-0.43	-1.04
SMED_04762_V2	transmembrane protein 41B isoform 1 [Homo sapiens];NP_055827	-0.43	0.32
SMED_11095_V2	alpha 1 type XI collagen isoform B preproprotein [Homo sapiens];NP_542196	-0.43	-0.44
SMED_05639_V2	stomatin isoform a [Homo sapiens];NP_004090	-0.42	-0.28
SMED_02635_V2	radial spoke head 9 homolog [Homo sapiens];NP_689945	-0.42	-0.24
SMED_10505_V2	transmembrane protein 195 [Homo sapiens];NP_001004320	-0.42	-0.55
SMED_06225_V2	POU class 3 homeobox 3 [Homo sapiens];NP_006227	-0.41	-0.32
SMED_01717_V2	solute carrier family 25 member 24 isoform 1 [Homo sapiens];NP_037518	-0.41	0.36
SMED_28962_V2	ankyrin 2 isoform 3 [Homo sapiens];NP_001120965	-0.40	-1.41

SMED_35047_V2	phosphofructokinase, muscle isoform 2 [Homo sapiens];NP_001160160	-0.40	-0.17
SMED_23889_V2	solute carrier family 6 (amino acid transporter), member 14 [Homo sapiens];NP_009162	-0.40	-0.87
SMED_10615_V2	acyl-CoA synthetase short-chain family member 3 precursor [Homo sapiens];NP_078836	-0.40	-0.57
SMED_01311_V2	calponin-homology and microtubule-associated protein [Homo sapiens];NP_056232	-0.40	0.23
SMED_10830_V2	tetraspan 1 [Homo sapiens];NP_005718	-0.40	-1.94
SMED_03089_V2	cholinergic receptor, nicotinic, alpha polypeptide 2 (neuronal) precursor [Homo sapiens];NP_000733	-0.39	0.19
SMED_03222_V2	Bardet-Biedl syndrome 1 [Homo sapiens];NP_078925	-0.39	-0.46
SMED_03037_V2	GTF2I repeat domain containing 2 [Homo sapiens];NP_775808	-0.39	-0.44
SMED_26189_V2	trinucleotide repeat containing 18 [Homo sapiens];NP_001073964	-0.39	0.18
SMED_25147_V2	PREDICTED: hypothetical protein [Homo sapiens];XP_001715638	-0.38	-0.37
SMED_00417_V2	outer dense fiber of sperm tails 3 [Homo sapiens];NP_444510	-0.38	-0.32
SMED_09130_V2	solute carrier family 6 (neurotransmitter transporter, taurine), member 6 isoform a [Homo sapiens];NP_001127839	-0.37	-0.24
SMED_13064_V2	S-adenosylhomocysteine hydrolase-like 2 isoform d [Homo sapiens];NP_001124195	-0.37	-0.44
SMED_10137_V2	myeloid/lymphoid or mixed-lineage leukemia 3 [Homo sapiens];NP_733751	-0.37	0.23
SMED_04486_V2	cytochrome P450, family 2, subfamily B, polypeptide 6 [Homo sapiens];NP_000758	-0.37	-0.49
SMED_32500_V2	solute carrier family 24 member 6 precursor [Homo sapiens];NP_079235	-0.37	-0.78
SMED_01669_V2	solute carrier family 6 (amino acid transporter), member 14 [Homo sapiens];NP_009162	-0.37	-1.00
SMED_01973_V2	serine palmitoyltransferase, long chain base subunit 2 [Homo sapiens];NP_004854	-0.37	-0.46
SMED_04310_V2	methyltransferase like 6 [Homo sapiens];NP_689609	-0.36	-0.21
SMED_00562_V2	calcium/calmodulin-dependent serine protein kinase isoform 3 [Homo sapiens];NP_001119527	-0.36	-0.27
SMED_02471_V2	solute carrier family 5 (inositol transporters), member 3 [Homo sapiens];NP_008864	-0.36	-0.46
SMED_11476_V2	stomatin isoform b [Homo sapiens];NP_937837	-0.36	-0.38
SMED_27567_V2	semaphorin 5A precursor [Homo sapiens];NP_003957	-0.35	-0.30
SMED_10615_V2	acyl-CoA synthetase short-chain family member 3 precursor [Homo sapiens];NP_078836	-0.35	-0.22

SMED_10795_V2	S-adenosylhomocysteine hydrolase-like 1 [Homo sapiens];NP_006612	-0.35	-0.41
SMED_10587_V2	potassium channel, subfamily K, member 10 isoform 1 [Homo sapiens];NP_066984	-0.35	-0.25
SMED_27922_V2	membrane protein, palmitoylated 5 [Homo sapiens];NP_071919	-0.35	-0.66
SMED_31763_V2	sphingosine-1-phosphate phosphotase 2 [Homo sapiens];NP_689599	-0.35	-0.60
SMED_08029_V2	eukaryotic translation initiation factor 3, subunit 12 [Homo sapiens];NP_037366	-0.35	0.43
SMED_02292_V2	aquaporin 4 isoform b [Homo sapiens];NP_004019	-0.34	-1.03
SMED_02387_V2	beta actin [Homo sapiens];NP_001092	-0.34	0.24
SMED_03121_V2	Bardet-Biedl syndrome 1 [Homo sapiens];NP_078925	-0.34	-0.23
SMED_00758_V2	CDW92 antigen [Homo sapiens];NP_536856	-0.34	-0.18
SMED_12314_V2	glutamate receptor, ionotropic, kainate 2 isoform 1 precursor [Homo sapiens];NP_068775	-0.34	-0.47
SMED_00814_V2	protein arginine methyltransferase 3 isoform 1 [Homo sapiens];NP_005779	-0.34	0.22
SMED_10030_V2	TPTE and PTEN homologous inositol lipid phosphatase isoform gamma [Homo sapiens];NP_954863	-0.34	-0.32
SMED_11332_V2	calcium channel, alpha 1A subunit isoform 4 [Homo sapiens];NP_001120694	-0.34	0.28
SMED_27419_V2	SMYD family member 5 [Homo sapiens];NP_006053	-0.34	-0.23
SMED_28312_V2	sarcolemma associated protein [Homo sapiens];NP_009090	-0.34	-0.42
SMED_22314_V2	proline-rich protein BstNI subfamily 2 [Homo sapiens];NP_006239	-0.33	-0.27
SMED_00238_V2	aryl hydrocarbon receptor interacting protein [Homo sapiens];NP_003968	-0.33	-0.15
SMED_01362_V2	fibroblast growth factor receptor 2 isoform 7 precursor [Homo sapiens];NP_001138389	-0.33	-0.44
SMED_28952_V2	ADAM metallopeptidase with thrombospondin type 1 motif, 2 isoform 1 preproprotein [Homo sapiens];NP_055059	-0.33	-1.41
SMED_32946_V2	secretory carrier membrane protein 2 [Homo sapiens];NP_005688	-0.33	-0.25
SMED_01775_V2	protein phosphatase 1, catalytic subunit, alpha isoform 1 [Homo sapiens];NP_002699	-0.33	-0.21
SMED_24260_V2	frizzled 5 precursor [Homo sapiens];NP_003459	-0.33	-1.84
SMED_01773_V2	REST corepressor 1 [Homo sapiens];NP_055971	-0.33	0.32

Top 98 oligos that BLAST to a human gene and are significantly (p<0.05) downregulated at day 8 in Six1/2(RNAi) animals relative to control animals