

S6 Table. GlcN-upregulated genes, whose expression was modulated by alloxan

Gene symbols (Ratio)				
ATPBD4 (-0.075)	LPHN3 (-0.066)	MDGA2 (0.155)	C17orf60 (0.050)	C9orf150 (0.064)
ALPK1 (0.163)	MAP1B (0.199)	SCN9A (0.203)	PDE5A (0.208)	BCAT1 (0.211)
IL20RB (0.219)	FCRLA (0.220)	GTPBP2 (0.249)	TCP11L2 (0.259)	ALOX5AP (0.268)
SLC16A12 (0.272)	INHBE (0.277)	ASS1 (0.282)	HEY1 (0.285)	RHBDD1 (0.289)
GABRG1 (0.300)	IFRD1 (0.346)	CBS (0.352)	LOC100129534 (0.374)	RAB39B (0.379)
SLFN5 (0.385)	GPR1 (0.387)	BEST1 (0.396)	C12orf39 (0.417)	MOCOS (0.423)
ALDH1L2 (0.424)	IBTK (0.428)	DDR2 (0.429)	FAM129A (0.440)	JDP2 (0.440)
SLC6A9 (0.441)	OR2A9P (0.450)	CSF2RA (0.470)	TRIB3 (0.475)	PAN2 (0.478)
TSEN15 (0.482)	IL1RL1 (0.492)	FKBP9L (0.496)	OR2A7 (0.519)	PCK2 (0.521)
SLC7A5 (0.531)	ARHGEF2 (0.535)	KRCC1 (0.544)	TES (0.548)	WIPI1 (0.549)
POLR3B (0.549)	TTC17 (0.554)	HSPC157 (0.557)	CLGN (0.562)	SLC7A11 (0.565)
CEBPB (0.571)	TSC22D3 (0.572)	KLHL5 (0.577)	VEGFA (0.577)	NUCB2 (0.578)
YARS (0.582)	HEATR5A (0.584)	PSAT1 (0.593)	LARP6 (0.596)	PDIA4 (0.597)
GARS (0.598)	CARS (0.609)	SEL1L (0.625)	NUPR1 (0.629)	CHAC1 (0.639)
WDR25 (0.658)	C10orf57 (0.661)	SLC1A4 (0.663)	CRELD1 (0.664)	XBP1 (0.669)
SLC33A1 (0.669)	MARS (0.671)	HCG8 (0.672)	WARS (0.672)	DPH5 (0.674)
NCOA7 (0.683)	AARS (0.693)	NSAP11 (0.702)	TRPM6 (0.704)	HYOU1 (0.706)
TRIM16L (0.709)	SDF2L1 (0.713)	ZC3H6 (0.722)	DNAJC16 (0.723)	SARS (0.727)
DDIT4 (0.734)	DDIT3 (0.736)	CTH (0.748)	GOT1 (0.750)	CCPG1 (0.751)
SEC11C (0.762)	MANF (0.762)	ASNS (0.763)	LMO4 (0.763)	SHMT2 (0.765)
HERPUD1 (0.773)	LOC554249 (0.779)	RHOB (0.784)	PXK (0.787)	CDK2AP2 (0.788)
COQ5 (0.790)	XPOT (0.793)	PHGDH (0.801)	AP1S3 (0.803)	DNAJC3 (0.804)
CEBPG (0.804)	ACTA2 (0.836)	ANKRD5 (0.836)	B4GALT7 (0.838)	EDEM1 (0.840)
UHRF1BP1 (0.847)	GPT2 (0.866)	DUSP16 (0.873)	HDDC3 (0.879)	TRAM1 (0.900)
HSPA5 (0.910)	SGK3 (0.916)	ULK2 (0.920)	MTHFD2 (0.926)	ULBP1 (0.928)
SESN2 (0.929)	C5orf28 (0.940)	NCRNA00171 (0.945)	C9orf91 (0.947)	UBE2D4 (0.948)
MKNK2 (0.948)	TMEM50B (0.950)	ZNF70 (0.958)	DNAJB9 (0.962)	SRD5A3 (0.968)
AAAS (0.970)	PPAPDC1B (0.977)	GOLPH3L (0.987)	KIAA1529 (0.998)	

Among GlcN-upregulated 194 genes ( $\geq 1.5$ -fold,  $p < 0.05$ ), genes whose expression was restored by alloxan are listed. To assess the effect of alloxan, the ratio (the changes of mRNA expression in the presence of both GlcN and alloxan/the changes in the presence of GlcN) was calculated and the value of  $< 1.0$  was defined as the restoration by alloxan.