	6		_24		36 hrs			_6		24		36 hrs	
	M	НG	M	НĠ	M	НĠ		M	НG	M	НG	M	НĠ
APOL1	0.80	0.79	1.72	1.43	1.43	1.17				***	**	**	
CAPN14	0.80	0.88	0.85	0.73	0.96	0.88							
CIC	1.56	1.24	1.67	1.55	1.50	1.56		*		**	*		*
CIZ	1.60	1.35	1.55	1.55	1.31	1.08		**		**	**		
COL18A1	1.53	1.41	2.11	1.87	2.06	1.65				**	**	**	
CPT1A	1.23	1.17	1.53	1.20	1.01	0.82				*			
DVL1	1.39	1.36	1.57	1.28	1.03	0.88		*		**			
EGR1	2.20	1.96	0.85	1.52	1.14	0.92		**		*			
GDPD3	1.04	1.48	1.22	1.17	0.98	1.08			**				
H3F3A	0.93	1.04	0.99	1.43	1.05	1.00							
HIC1	0.97	1.04	1.60	1.60	1.18	1.17							
KIF9	0.97	1.54	1.31	0.76	0.78	0.82			**				
MAP3K10	1.80	1.63	1.63	1.35	1.10	1.48		**	*	*			
MAP7D1	1.37	1.76	1.63	0.90	0.70	0.85			**	**	**		
MDC1	1.05	1.19	1.40	1.16	1.04	0.92				**			
MED12	1.27	1.47	1.65	1.39	1.16	1.09			**	***	*		
MINK1	0.89	1.05	1.11	1.37	0.88	0.71							
МҮН9	0.92	1.08	1.30	0.72	0.78	0.82							
MYO15B	1.02	1.10	2.02	1.22	1.18	1.49				***			
NR4A1	1.49	1.58	1.69	0.97	1.03	0.84			*	**			
PIEZO1	1.43	1.55	1.62	1.22	1.01	1.21		*	**	***			
PRRC2B	1.29	1.26	1.57	1.23	0.98	0.91		*		***			
RRBP1	1.36	1.40	1.61	1.07	1.12	0.82				**			
SH2D3C	1.60	1.41	1.73	1.57	1.20	0.98		*	*	***	**		
SHANK3	0.84	1.01	1.53	0.78	0.67	0.74				**		*	
TENC1	0.60	0.80	1.57	0.96	0.76	0.91		*		***			

row min max

**Supplementary Figure 1: High glucose and mannitol regulate HUVEC gene expression**. Heat map showing the row normalized maximum fold change in each gene at 6, 24 and 36 hr time measured by real-time qPCR. Time 0 was set to 1 in this analysis. Each time point is compared to Time 0. M = mannitol 25 mM. HG = high glucose 25 mM (n=4 replicates per treatment group). Statistically significant differences in expression were determined using 2-way ANOVA with Dunnett's multiple comparisons test compared to Time 0 samples. \* p-value < 0.05; \*\* p-value < 0.01; \*\*\* p-value < 0.001. Squares left blank were not statistically significantly different.

## Supplementary Figure 1. High Glucose and Mannitol Regulate HUVEC Gene Expression.

Heatmap showing the row normalized maximum fold change in each gene at 6-, 24-, and 36-hour time measured by real-time qPCR. Time 0 was set to 1 in this analysis. Each time point is compared with Time 0.

M = mannitol 25 mM; HG = high glucose 25 mM (n = 4 replicates per-treatment group).

Statistically significant differences in expression were determined using 2-way ANOVA with Dunnett's multiple comparisons test compared with Time 0 samples.

\* p value < 0.05; \*\* p value < 0.01; \*\*\* p value < 0.001. Squares left blank were not statistically significantly different.