

Gene Symbol	HDA-QD	Carboxylated-QD	PEG-QD
ALB			
ALOX12			
ANGPTL7			
AOX1			
APOE			
ATOX1			
BNIP3			
CAT			
CCL5			
CCS			
CSDE1			
CYBA			
CYGB			
DGKK			
DHCR24			
DUOX1			
DUOX2			
DUSP1			
EPHX2			
EPX			
FOXM1			
GLRX2			
GPR156			
GPX1			
GPX2			
GPX3			
GPX4			
GPX5			
GPX6			
GPX7			
GSR			
GSS			
GSTZ1			
GTF2I			
KRT1			
LPO			

MBL2			
MGST3			
MPO			
MPV17			
MSRA			
MT3			
MTL5			
NCF1			
NCF2			
NME5			
NOS2			
NOX5			
NUDT1			
OXR1			
OXR1			
OXS1			
PDLIM1			
IPCEF1			
PNKP			
PRDX1			
PRDX2			
PRDX3			
PRDX4			
PRDX5			
PRDX6			
PREX1			
PRG3			
PRNP			
PTGS1			
PTGS2			
PXDN			
PXDNL			
RNF7			
SCARA3			
SELS			
SEPP1			
SFTPD			
SGK2			
SIRT2			

SOD1	Red	Red	Red
SOD2	Black	Black	Green
SOD3	Black	Black	Black
SRXN1	Black	Black	Green
STK25	Green	Green	Green
TPO	Black	Black	Black
TTN	Red	Black	Black
TXNDC2	Red	Red	Black
TXNRD1	Red	Red	Red
TXNRD2	Black	Black	Black

**Figure S1: Heat map of gene expression changes in THP-1 cells following QD exposure.**

Red indicates up-regulation, green reflects down-regulation, and black is indifferent expression of genes related to oxidative stress and antioxidant defense as compared to transcriptional levels in untreated cells.