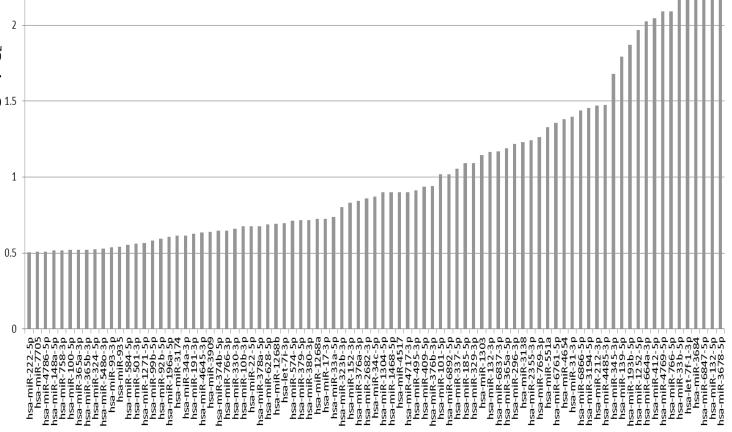


1



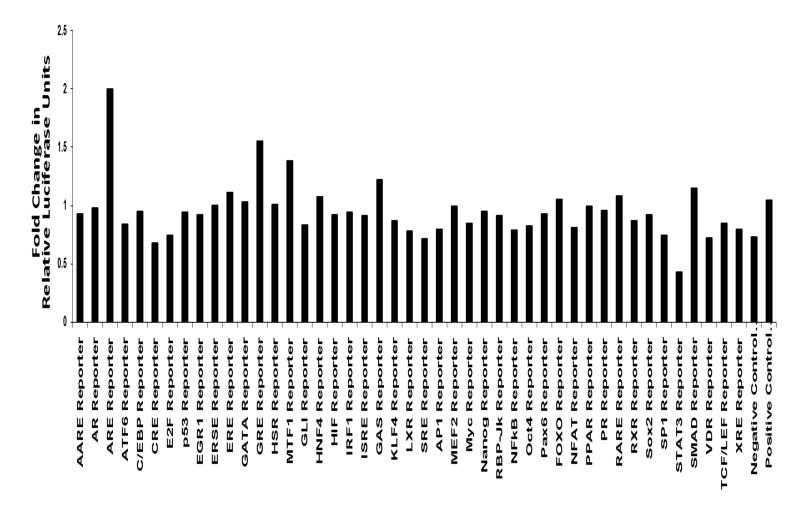
**Appendix A** 

Supplementary Fig 1A. Upregulation of KGE on miRNA expressions by miRNA sequencing. HUVECs were incubated with KGE (500  $\mu$ g/ml) for 24 h. The graph indicated the quantification of known miRNA expression for fold change $\leq$ -0.5 or fold change $\geq$ 0.5. Values are presented as the means  $\pm$  SD of three independent experiments. All data were analysed by ANOVA with multiple *post hoc* testing.

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hsa-miR-181b-2-3p hsa-miR-29b-1-5p hsa-miR-1306-5p hsa-miR-6884-5p hsa-miR-1292-5p hsa-miR-6858-5p hsa-miR-3913-5p hsa-miR-6797-5p hsa-miR-16-1-3 p hsa-miR-26a-2-3 5 hsa-miR-6894-5p 1sa-miR-6852-5p 1sa-miR-1287-5p hsa-miR-3074-5p 1sa-miR-548e-5p hsa-miR-376a-5p 1sa-miR-3613-5p 1sa-miR-3152-5p hsa-miR-3677-3 µ hsa-miR-3688-3 µ hsa-miR-942-3p hsa-miR-503-3p hsa-miR-576-5p hsa-miR-615-3p hsa-miR-29b-3 p hsa-miR-377-3p hsa-miR-501-5p hsa-miR-539-5p hsa-miR-505-5p 1sa-miR-197-5p 1sa-miR-370-5p hsa-miR-18a-5p 1sa-miR-18a-3 p nsa-miR-452-3p hsa-miR-188-5p 1sa-miR-19a-3 p hsa-miR-362-5p 1sa-miR-140-5p hsa-miR-7-1-3 p hsa-miR-12 55a hsa-miR-32-3 p hsa-miR-487a-. hsa-miR-5706 hsa-miR-3133 hsa-miR-5696 hsa-miR-5094 hsa-miR-4803 hsa-miR-4286 isa-miR-3176 hsa-miR-1193 hsa-miR-5091 hsa-miR-378d 1sa-miR-3662 1sa-miR-4461 1sa-miR-4454 hsa-miR-4647 hsa-miR-7-5p 0 -1 fold-change (log2 Treatment/control) -2 -3 -4 -5 -6 -7 -8

Supplementary Fig 1B. Downregulation of KGE on miRNA expressions by miRNA sequencing. HUVECs were incubated with KGE (500  $\mu$ g/ml) for 24 h. The graph indicated the quantification of known miRNA expression for fold change $\leq$ -0.5 or fold change $\geq$ 0.5. Values are presented as the means  $\pm$  SD of three independent experiments. All data were analysed by ANOVA with multiple *post hoc* testing.



**Supplementary Fig 2. Effect of KGE on signalling pathway.** COS-7 cells were incubated with KGE (500  $\mu$ g/ml) for 24 h. The graph indicated the quantification of the reporter expressions, using Renilla reporter for internal normalization. Values are presented as the means  $\pm$  SD of three independent experiments. All data were analysed by ANOVA with multiple *post hoc* testing.