

Supplemental Material

Table I: Primer sequences used to generate short fragments from HIF-1 α mRNA 3'-UTR*.

Fragment	Forward primer
F1	5'-ccc-aag-ctt-ggg-gaa-gcc-tgg-cta-caa-ta-3'
F2	5'-ccc-aag-ctt-ggg-cat-taa-tgc-tctt-3'
F3	5'-ccc-aag-ctt-ggg-aac-cat-tgc-att-gca-gta-3'
F4	5'-ccc-aag-ctt-ggg-tag-gga-gtt-tat-ccct-3'
F5	5'-ccc-aag-ctt-ggg-gaa-gat-gcc-aat-ata-aatt-3'
F6	5'-ccc-aag-ctt-ggc-cta-tga-aat-tgt-taa-acc-tgg-3'
F7	5'-ccc-aag-ctt-gga-taa-aat-tct-caa-ttc-ag-3'
F8	5'-ccc-aag-ctt-gga-ata-tat-agt-tgt-cac-3'
895-1175 bp	5'-ccc-aag-ctt-tca-tgc-att-ctt-agg-aaaa-3'
989-1175 bp	5'-ccc-aag-ctt-cat-gta-gat-ttc-aat-aat-tg-3'
958-1175 bp	5'-ccc-aag-ctt-tgc-act-ttg-tcg-cta-tta-3'
1019-1175 bp	5'-ccc-aag-ctt-gaa-gca-tta-ttt-tag-gaa-tat-ata-g-3'
895-1019 bp	5'-ccc-aag-ctt-tca-tgc-att-ctt-agg-aaaa-3'

* F1 to F8 fragments were generated by PCR with the forward primers indicated above and the same reverse primer 5'-gatgcgagctcgcttccacagaagat-3' containing the Sac I restriction site as mentioned in Material and Methods. The fragment 895-1019 was obtained using the forward primer indicated above and the reverse primer 5'-gat-cga-gct-cga-aga-tgt-tta-ttt-gac-taa-aat-tac-tca-att-att-gaa-atc-tac-at-3' in which a polyA site was inserted upstream of the Sac I restriction site.

Table II: Primer sequences used to generate full-length HIF-1 α 3'-UTR, F7 and TTP mutants.

Mutant	Forward primer
FL mARE c3	5'-aca-cct-ttt-ttt-tca-cat-ggg-aca-taa-ata-ata-atgc-3'
FL mAB	5'-cac-tac-cta-aag-cag-tct-atg-gat-att-ttc-tac-ata-taa-tgg-gag-aag-cct-ggc-tac-aat-act-3'
F7 mut hexamer1	5'-gct-caa-aat-aca-atg-ttt-gat-gtg-atg-cac-ttt-gtc-gct-atta-3
F7 mut hexamer 2	5'-ttc-aat-aat-tga-gta-atg-tga-gaa-gca-tta-ttt-tag-ga-3'
F7 mut hexamer 3	5'-aat-ttt-aga-agg-att-atg-tga-gga-ata-tat-agt-tgt-3'
F7 mut hexamer 2+3	5'-ttc-aat-aat-tga-gta-atg-tga-gaa-gca-tta-tgt-gag-gaa-tat-ata-gtt-gt-3'
F7 mut polyU	5'-ctt-tgt-cgc-tat-taa-cat-cct-ggt-ggt-cat-gta-gat-ttc-aat-tg-3'.
F7 mut miR17-92 site	5'-tca-tgc-att-ctt-agg-aaa-att-gcc-tag-tat-gtt-aat-ttg-ctc-aaa-ata-caa-tgg-tgg-att-tta-taa-acg-gg-3'
TTP mutant zinc finger 1	5'-tac-ggg-gcc-aag-cgc-cag-ttt-gcc-c-3'

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TTP mutant zinc finger 2	5'-aag-acg-gaa-ctc-cgc-cac-aag-ttc-tac-3'
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Table III: Primer sequences used in RT-qPCR.

Gene	Primer
HIF-1 α	5'-cta-cta-gtg-cca-cat-cat-cac-ca-3' (sense) 5'-gat-tgc-ccc-agc-agt-cta-cat-3' (antisense)
18s	5'-aaa-cgg-cta-cca-cat-cca-ag-3' (sense) 5'-cct-cca-atg-gat-cct-cgt-ta-3' (antisense)
luciferase-3'HIF-1 α	5'-gta-ccg-aaa-ggt-ctt-acc-gg-3' (sense, luciferase specific) 5'-gcc-tgg-tcc-aca-gaa-gat-g-3' (antisense, 3'HIF-1 α specific)

Table IV: TTP family siRNA sequences

	sequence
ZnF	5'-cgc-ugc-cac-uuc-auc-cac-aac-3' (Sense) 5'-ugu-gga-uga-agu-ggc-agc-ggg-3' (Antisense)
TIS11b	5'-agg-gua-aca-aga-ugc-uca-acu-3' (Sense) 5'-uug-agc-auc-uug-uua-ccc-uug-3' (Antisense)
TIS11d	5'-gug-gau-guu-cag-uuu-aga-3' (Sense) 5'-uuc-uaa-acu-gaa-cau-cca-cua-3' (Antisense)

TTP siRNAs and control siRNAs were purchased from Ambion (Austin, TX, USA).