

## Supplementary information, Table S4

**Table S4 Sequence of primers or shRNA against human USP8**

Primers used for site-directed mutagenesis

P720R-forward P720R-reverse	5-tgaagcgctcctactcctccgagatataaccaggctattc-3 5-gaatagcctgggttatatctcgggaggagtaggagcgcttca-3
S718del-forward S718del-reverse	5-tccaaactgaagcgctcctactcccagatataaccaggc-3 5-gcctgggttatatctggggagtaggagcgcttcagttgga-3
S718P-forward S718P-reverse	5-ccaaactgaagcgctcctaccctcccagatataaccag-3 5-ctgggttatatctggggagggtaggagcgcttcagttgg-3

Primers used for RT-QPCR

EGFR-forward EGFR-reverse	5-catttaggggtgactcctcac -3 5-gaatcagcaaaaaccctgtgat -3
USP8-forward USP8-reverse	5-aaaggacaaccagaaagtggaa -3 5-gctctgtcaaaggttctcgtt -3
POMC-forward POMC-reverse	5-accacggaaagcaacctg-3 5-gtggcccatgacgtactc-3
HPRT-forward HPRT-reverse	5-accagtcaacaggggacataaa -3 5-ctgaccaaggaaagcaaagtct -3

Sequence of shUSP8

shUSP8-1	5- ccggtcaagcaacagcaggattattctcgagaataatcctgctggttgctgattttg -3
shUSP8-2	5- ccggtcaagcaacagcaggattattctcgagaataatcctgctggttgctgattttg -3