

## Description of Additional Supplementary Files

**Supplementary Data 1. List of target sites and guide RNA sequences.** Given are the unique number of each guide RNA, the target gene ID, the target site, target codon, guide RNA chemical modification pattern, the PTM modification type, the expected effect upon editing, the uniprot ID and a literature reference. gRNA sequence: [2'-O-methyl rNT], fN in blue = 2'-F-rNT, (RNA), {LNA}, I in orange = deoxy Inosine, \*=Phosphorothioate. PTMi modification type: pY/S/T (phosphor tyrosine/serine/threonine), Ac (acetylation), Ub (ubitinylation), di-Me (dimethylation), GOF (gain of function mutation). Expected outcome upon editing: red – downregulation; green – upregulation.

**Supplementary Data 2. List of qPCR primers.**

**Supplementary Data 3. List of sense DNA oligonucleotides to bind guide RNA.** DNA sequences are given from 5' to 3'.