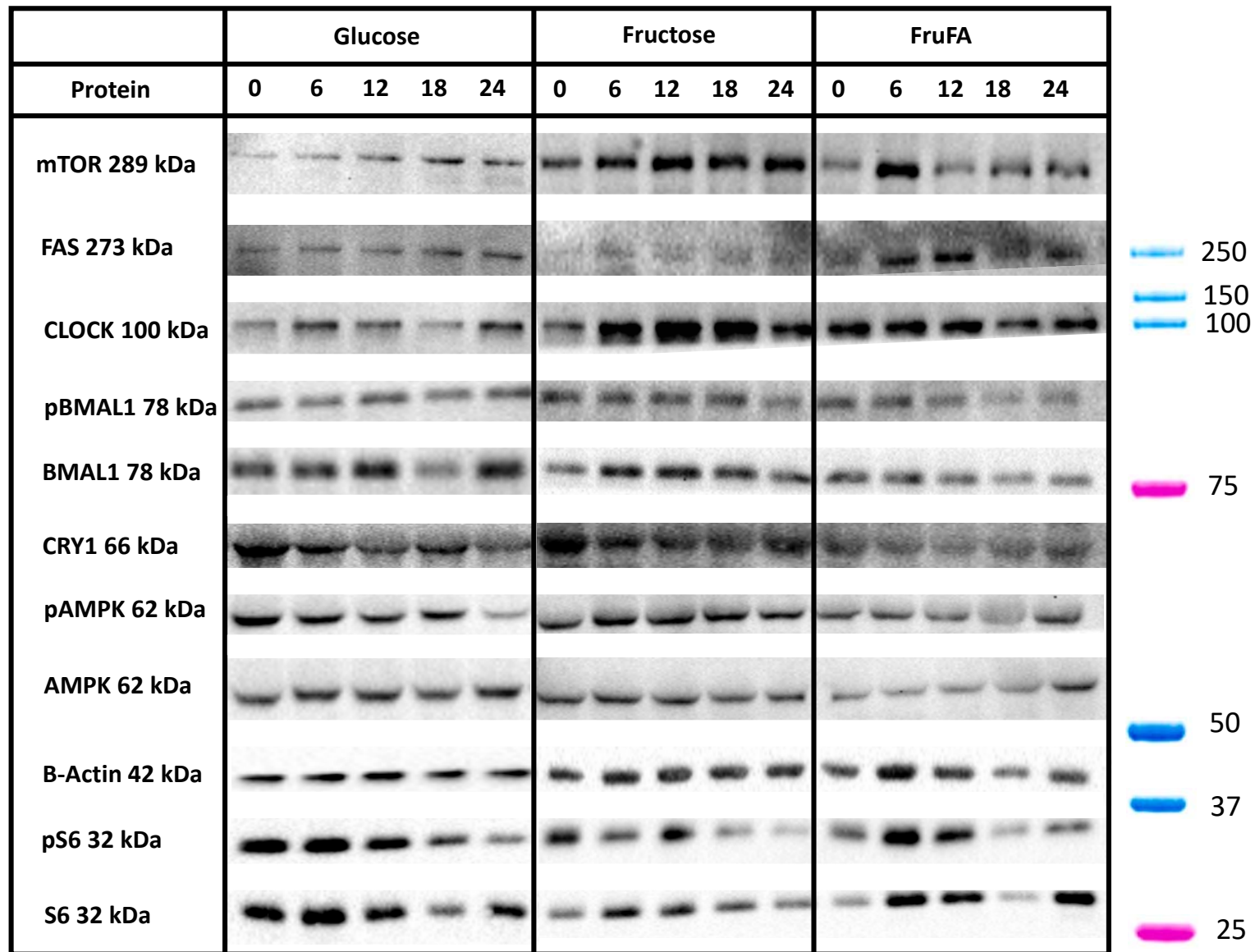
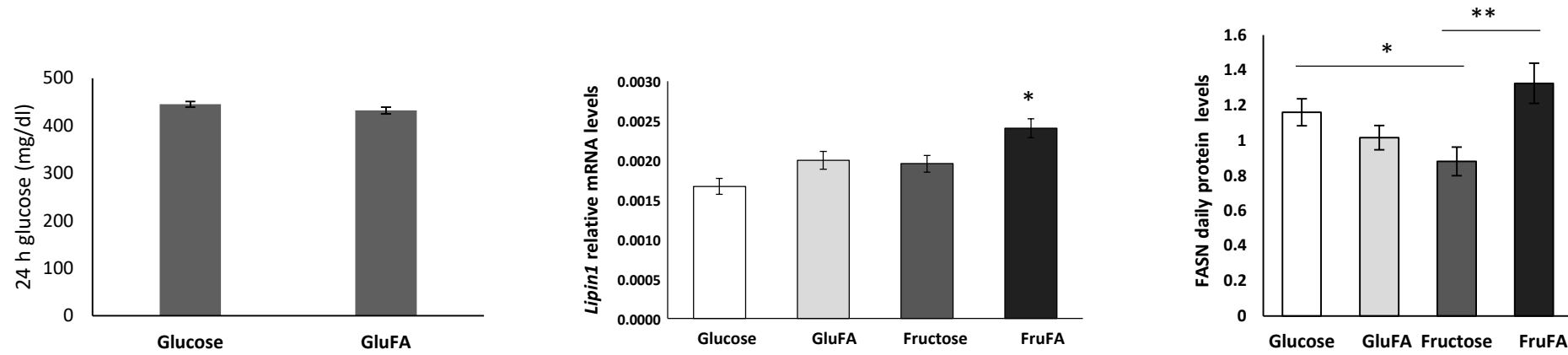


**Figure S1: Effect of fructose and fructose-induced steatosis on lipid content in AML-12 hepatocytes.** Relative lipid content after 12-48 h in AML-12 hepatocytes. Asterisk denote significant differences by Tukey HSD (\*p<0.05, \*\*p<0.01, \*\*\*p<0.0001).



**Figure S2: Western blots Effect of glucose, fructose and FruFA on protein levels in AML-12 hepatocytes.** Each protein was measured in 5 time-points throughout the circadian



**Figure S3:** Effect of glucose/fructose and fatty acids on 24 h glucose levels and lipid synthesis. Asterisk denote significant differences by Tukey HSD (\* $p < 0.05$ , \*\* $p < 0.01$ ).

**Supplementary Table S1: Quantitative real-time PCR primer sequences**

<b>Gene</b>	<b>Forward primer</b>	<b>Reverse primer</b>
<i>Actin</i>	5'-CTAAGGCCAACCGTGAAAAG-3'	5'-GGGGTGTGTAAGGTCTCAAA-3'
<i>Tnfa</i>	5'-ATGAGAAGTTCCCAAATGGCC-3'	5'-GGGTCTGGGCCATAGAACTGA-3'
<i>Lipin1</i>	5'-ATGCCAAGACCAACATCAGCT-3'	5'-GATCGACCACTTCGCAGAGC-3'
<i>R-age</i>	5'-CTACCTATTCCTGCAGCTTC-3'	5'-CTGATGTTGACAGGAGGGCTTTCC-3'
<i>Rora</i>	5'-CAGAAATGCCTGGCCGTG-3'	5'-CCGACCAAACCTTGACAGCATC-3'
<i>RevErba</i>	5'-GGGCACAAGCAACATTACCAA-3'	5'-CACCTTACACAGTAGCACCATGC-3'
<i>Bmal1</i>	5'-CAAGAATGCAAGGGAGGCC-3'	5'-TTGTCCCGACGCCTCTTTT-3'
<i>Clock</i>	5'-CCTAGAAAATCTGGCAAAATGTCA-3'	5'-CCTTTTCCATATTGCATTAAGTGCT-3'
<i>Cry1</i>	5'-AGGCAGCTGATGTATTTCCCA-3'	5'-AGTTTAGTGATGTTCCATTCCTTGAA-3'
<i>Per1</i>	5'-CCGAATACACACTTCGAAACCAG-3'	5'-TCCCGTTTGCAACGCAG-3'