

Differential effects on human cytochromes P450 by CRISPR/Cas9-induced genetic knockout of cytochrome P450 reductase and cytochrome b5 in HepaRG cells

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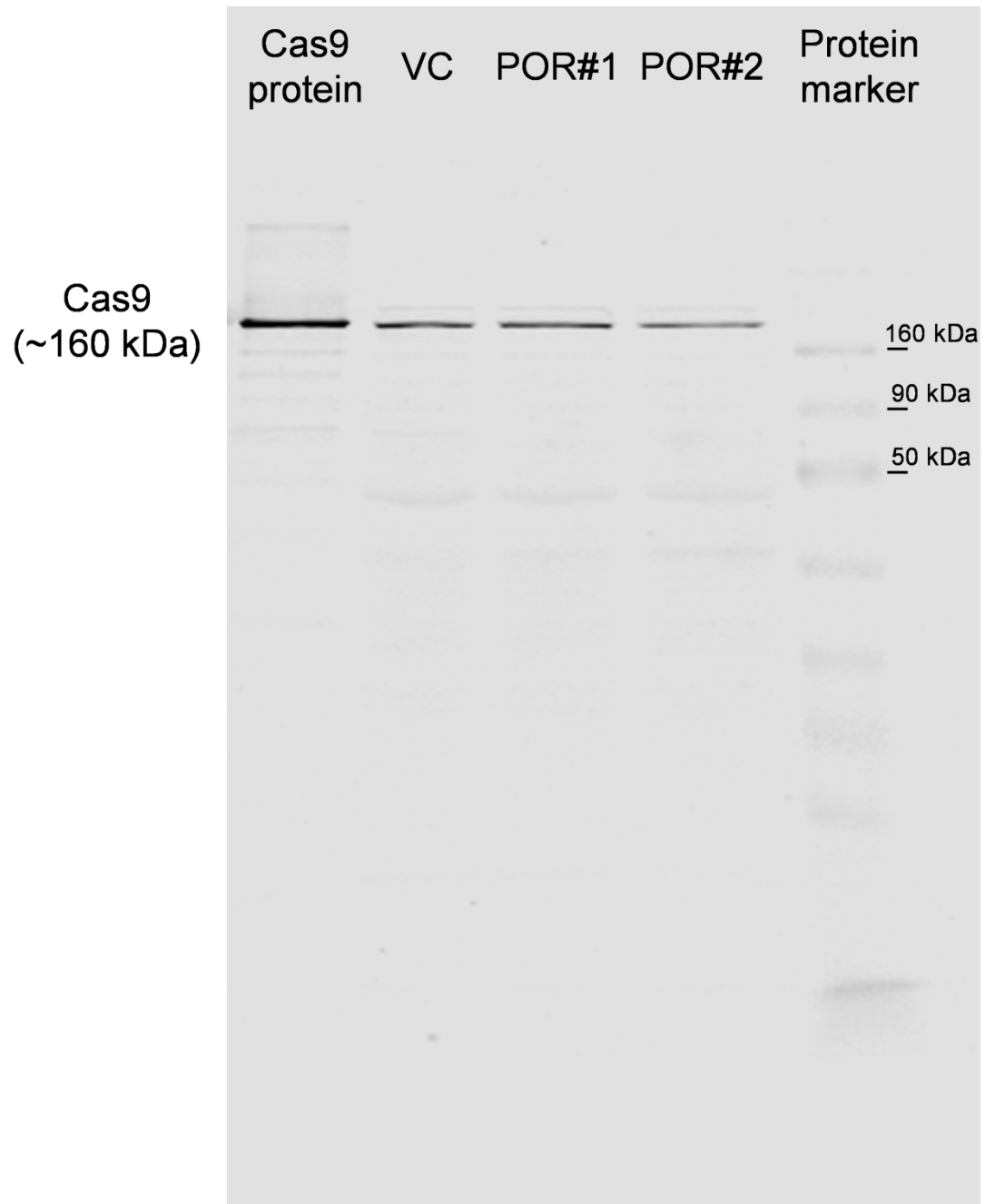
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Supplementary Information:

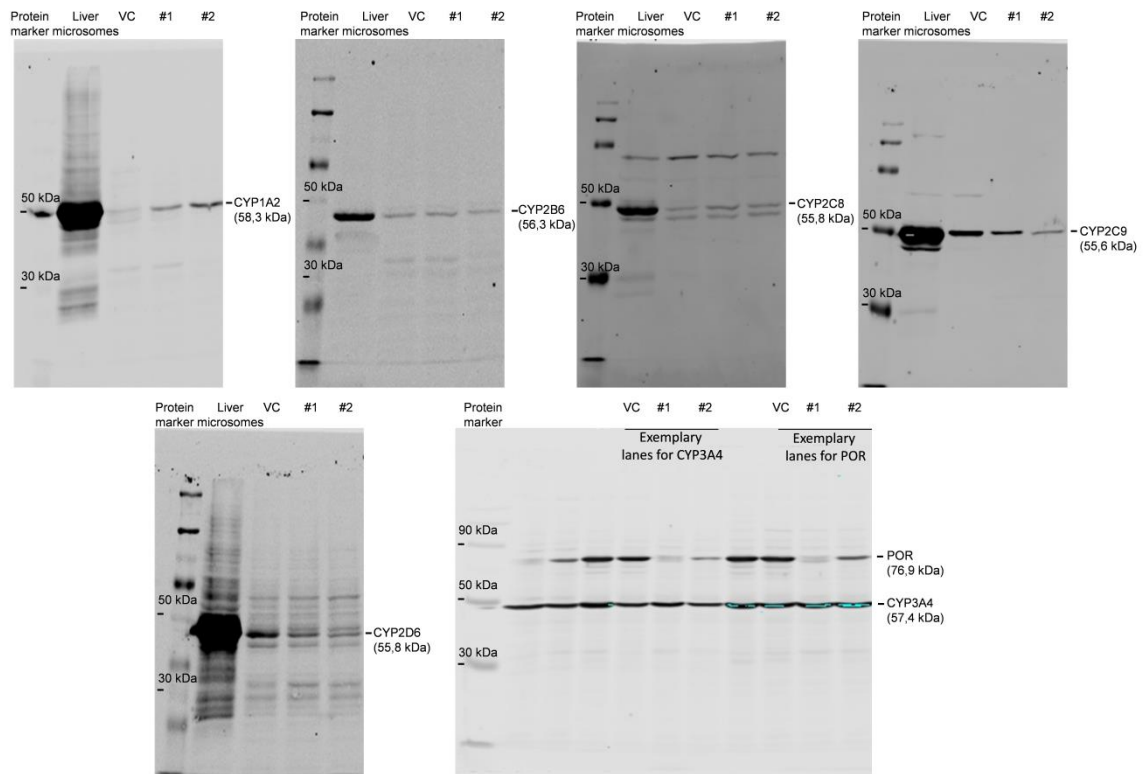
Supplementary Figure S1: Full length western blot of Fig. 1b

Supplementary Figure S2: Full length western blots of Fig. 6a

Supplementary Table S1: Sequences of primers used for PCR amplification of sgRNA target sites for T7E1 digest



Supplementary Figure S1: Full length western blot of Fig. 1b. Analysis of Cas9 expression in lysates of undifferentiated HepaRG^{VC}, HepaRG^{-POR#1} and HepaRG^{-POR#2}, Cas9 protein as positive control. Protein Marker: ChameleonTM Duo LI-COR.



Supplementary Figure S2: Full length western blots of Fig. 6a: Exemplary Western Blots of microsomal fractions of HepaRG cells transduced with vector control (VC) or sgRNAs POR#1 or POR#2 after differentiation for three weeks. CYP expression in liver microsomes was analysed as positive control. Protein Marker: ChameleonTM Duo LI-COR.

Supplementary Table S1: Sequences of primer used for PCR amplification of sgRNA target sites for T7E1 digest.

Primer name	Sequence	Function
POR#1 fwd	5'-GGATGTTCCAGCACACTGAGA-3'	Primer for T7E1 digest of sgRNA POR#1 target site
POR#1 rev	5'-CCAAGAGTCACCCCAAAATGC-3'	
POR#2 fwd	5'-TGTGTGAGATTGCCTTGGTGA-3'	Primer for T7E1 digest of sgRNA POR#2 target site
POR#2 rev	5'-ACGGGAAGGCAACTTCCGA-3'	
POR off-target#1 fwd	5'-GACTGTCAGCGGGTGGAAAA-3'	Primer for T7E1 digest of predicted off-target site #1 of sgRNA POR#2
POR off-target#1 rev	5'-TGAGGAGGTTTCCTGGTGGA-3'	
POR off-target#2 fwd	5'-TCCTACGGGTTGTGTTGAGC-3'	Primer for T7E1 digest of predicted off-target site #2 of sgRNA POR#2
POR off-target#2 rev	5'-TGGCTGATTAACCAGGTGCC-3'	
POR off-target#3 fwd	5'-TGGCATAGTCCATAAGCTTGC-3'	Primer for T7E1 digest of predicted off-target site #3 of sgRNA POR#2
POR off-target#3 rev	5'-ACAACAGCTGCTAAGGGTCC-3'	