NLRP7 Enhances Choriocarcinoma Cell Survival and Camouflage in an Inflammasome Independent Pathway

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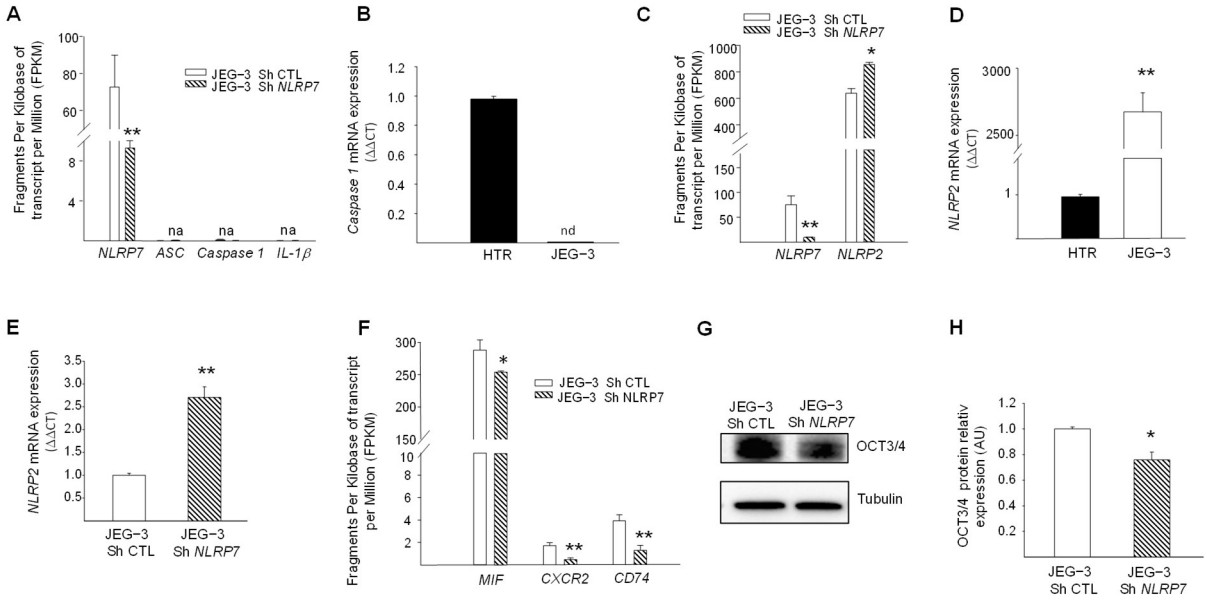


Figure S1: Validation of the differential expression of some genes selected upon RNA-sequencing in JEG-3 Sh CTL and JEG-3 Sh NLRP7. Panel A reports a comparison of Fragments per Kilobase of transcription per Million (FPKM) in gene expression levels of NLRP7, ASC, CASP 1 and IL-1β in JEG-3 Sh CTL and JEG-3 Sh NLRP7 (n = 3); ** $p < 0.01$, na: not applicable, ns: not significant. Panel B reports a comparison of the mRNA levels of CASP1 expression in HTR8/SVneo and JEG-3 cells (n = 3); nd: not detectable. Panel C comparison of Fragments per Kilobase of transcription per Million (FPKM) in gene expression levels of NLRP7 and NLRP2 (n = 3); * $p < 0.05$, ** $p < 0.01$. Panel D reports a comparison of the mRNA levels of NLRP2 expression in HTR8/SVneo and JEG-3 cells (n = 3); ** $p < 0.01$. Panel E reports a comparison of the mRNA levels of NLRP2 expression in JEG-3 Sh CTL and JEG-3 Sh NLRP7 (n = 3); ** $p < 0.01$. Panel F comparison of Fragments per Kilobase of transcription per Million (FPKM) in gene expression levels of MIF, CXCR2 and CD74 in JEG-3 Sh CTL and JEG-3 Sh NLRP7 (n = 3); * $p < 0.05$, ** $p < 0.01$. Panel G reports a comparison of OCT3/4 protein levels in JEG-3 Sh CTL and JEG-3 Sh NLRP7 cells. Panel H reports a quantification of the OCT3/4 protein levels (n = 3); * $p < 0.05$. Standardization of protein signals was performed using antibodies against tubulin.

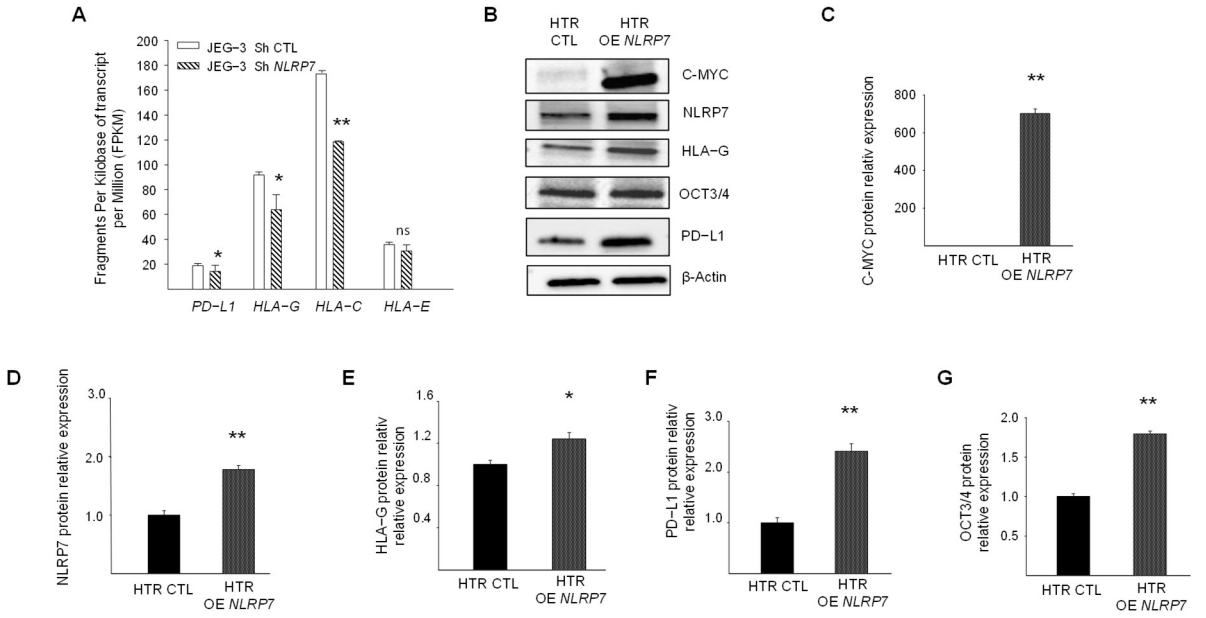


Figure S2: Characterization of NLRP7 involvement in cell camouflage. Panel A comparison of Fragments per Kilobase of transcription per Million (FPKM) in gene ex-pression levels of PD-L1, HLA-G, HLA-C and HLA-E in JEG-3 Sh CTL and JEG-3 Sh NLRP7 (n = 3); * $p < 0.05$, ** $p < 0.01$, ns: not significant. Panel B reports the comparison of protein levels in HTR CTL and HTR-OE NLRP7 cells. Membranes were incubated with antibodies to detect C-MYC, NLRP7, HLA-G, OCT3/4 and PD-L1. β-Actin was used as a loading control (n = 3). Panel C reports a quantification of the C-MYC protein levels extracted from HTR CTL and HTR-OE NLRP7 (n = 3); ** $p < 0.01$. Panel D reports a quantification of the NLRP7 protein levels extracted from HTR CTL and HTR-OE NLRP7 cells (n = 3); ** $p < 0.01$. Panel E reports a quantification of the HLA-G protein levels extracted from HTR8/SVneo CTL and HTR8/SVneo OE NLRP7 (n = 3); * $p < 0.05$. Panel F reports a quantification of the PD-L1 protein levels extracted from HTR CTL and HTR-OE NLRP7 cells (n = 3); ** $p < 0.01$. Panel G reports a quantification of the OCT3/4 protein levels extracted from HTR CTL and HTR-OE NLRP7 cells (n = 3); ** $p < 0.01$.