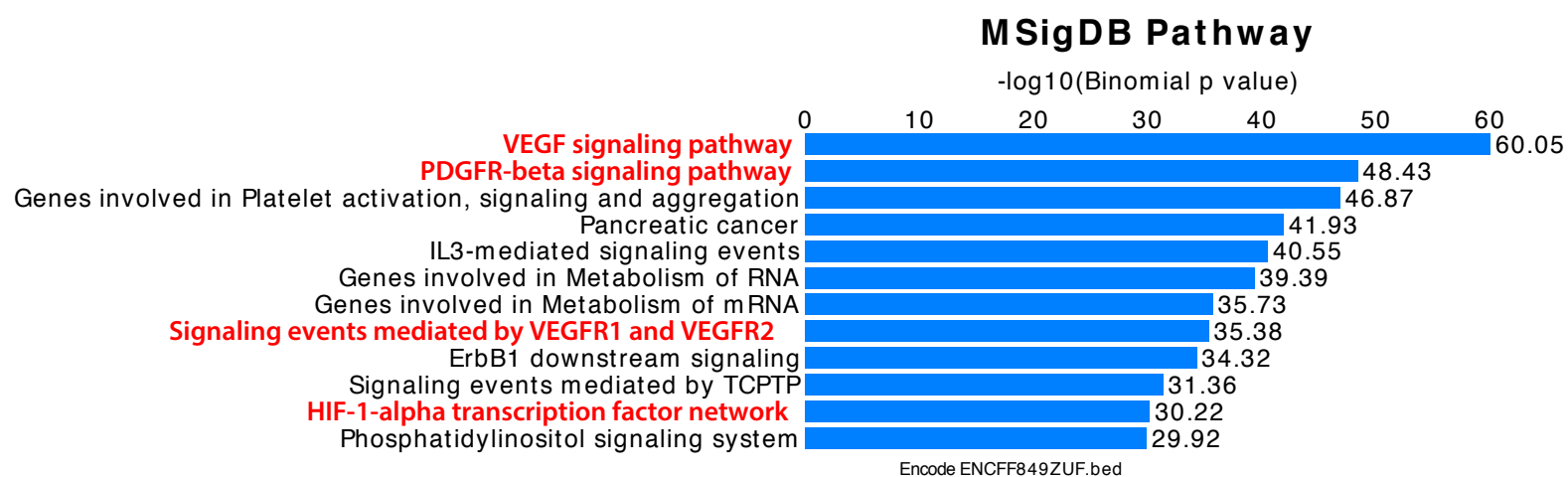


A

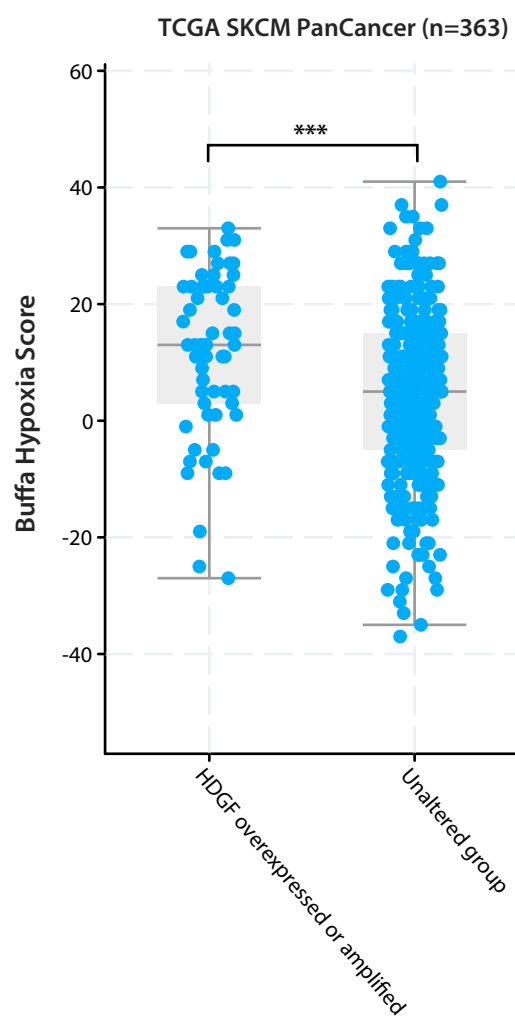
Predicted Upstream Regulator	Molecule Type	Predicted Activation State	Activation z-score	p-value of overlap
<i>MYOCD</i>	transcription regulator	Activated	2.921	0.000000902
<i>HAND2</i>	transcription regulator	Activated	2.587	0.00000517
<i>GATA4</i>	transcription regulator	Activated	2.585	0.0000177
<i>TBX5</i>	transcription regulator	Activated	2.585	0.00000517
<i>HIF1A</i>	transcription regulator		1.372	0.00173
<i>NANOG</i>	transcription regulator		1	0.0313
<i>SATB1</i>	transcription regulator		1	0.00873
<i>ESR1</i>	ligand-dependent nuclear receptor		0.788	0.00000524
<i>WT1</i>	transcription regulator		0.728	0.000263
<i>POU5F1</i>	transcription regulator		0.668	0.00417

B

Analysis of HDGF targets from ENCODE project



C



D

Pooled vector injection in casper *kdrl:mCherry*