

Supplementary Table S1. The sequence of genes in the manuscript.

# Sequence	TGGCGGCGTGAATGGCAAGATGG
# Genome	hg19
# PAM	NGG
# Position	chr18:45423097-45423120:+
# Version	CRISPOR 5.01, 2023-08-31T19:44:01CEST
Chromosomal position of sgRNA binding site	Chr18:47896727-47896749
#guideld	targetSeq
SMAD2 sg4	TGGCGGCGTGAATGGCAAGATGG
# Sequence	TTCACGATCGGGGGAGTGAAAGG
# Genome	hg19
# PAM	NGG
# Position	chr15:67358507-67358530:-
# Version	CRISPOR 5.01, 2023-08-31T19:48:51CEST
Chromosomal position of sgRNA binding site	Chr15:67066170-67066192
#guideld	targetSeq
SMAD3 sg2	TTCACGATCGGGGGAGTGAAAGG
# Sequence	AACTCTGTACAAAGACCGCGTGG
# Genome	hg19
# PAM	NGG
# Position	chr18:48593460-48593483:-
# Version	CRISPOR 5.01, 2023-08-31T19:50:26CEST
Chromosomal position of sgRNA binding site	Chr18:51067091-51067113
#guideld	targetSeq
SMAD4 sg1	AACTCTGTACAAAGACCGCGTGG

Supplementary Table S1. *Cont.*

mitSpecScore	cfdSpecScore	offtargetCount	targetGenomeGeneLocus	Doench '16-Score	OldDoench '16-Score
81	89	84	exon:SMAD2	60	59

mitSpecScore	cfdSpecScore	offtargetCount	targetGenomeGeneLocus	Doench '16-Score	OldDoench '16-Score
87	92	42	exon:SMAD3	53	52

mitSpecScore	cfdSpecScore	offtargetCount	targetGenomeGeneLocus	Doench '16-Score	OldDoench '16-Score
94	95	39	exon:SMAD4	70	75

Supplementary Table S1. *Cont.*

Chari-Score	Xu-Score	Wu-Crispr-Score	Doench '14-Score	Wang-Score	Moreno-Mateos-Score
84	0.16579	67	24	66	66

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Chari-Score	Xu-Score	Wu-Crispr-Score	Doench '14-Score	Wang-Score	Moreno-Mateos-Score
63	-0.1942	0	19	24	63

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Chari-Score	Xu-Score	Wu-Crispr-Score	Doench '14-Score	Wang-Score	Moreno-Mateos-Score
97	0.30044	87	92	81	24

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Supplementary Table S1. Cont.

Azimuth in-vitro-Score	CCTop-Score	Out-of-Frame-Score	Lindel-Score	GrafEtAlStatus	grafType
55	67.249906		72	84	GrafOK



Azimuth in-vitro-Score	CCTop-Score	Out-of-Frame-Score	Lindel-Score	GrafEtAlStatus	grafType
59	48.7785995		60	82	GrafOK



Azimuth in-vitro-Score	CCTop-Score	Out-of-Frame-Score	Lindel-Score	GrafEtAlStatus	grafType
20	47.7187295		64	90	GrafOK



Figure S1. Original Blots: Cropped regions are in red

