

## Abkürzungen der Protein und Gen Namen:

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Wenn der Name speziesspezifisch ist wird die jeweilige Spezies in Klammer angegeben.

Proteinennamen: Zumindestens erster Buchstabe großgeschrieben.

Gennamen: klein und kursiv geschrieben

ACT16a	Actin-like-6a, a component of BAF (SWI/SNF) complexes
Akt	Protein kinase B (PKB)
ALK	Activin linked kinase
Akt1/PKB	Thymoma viral proto oncogene 1 / Protein Kinase B
ActRII	Activin receptor type II
BAC	Bacterial artificial chromosome
BAF	ATP-dependent chromatin remodeling complex BAF
Bmp 2	Bone morphogenetic protein 2
DUSP	DUAL Specific Phosphatase
Elk 1	<u>E</u> ts-like <u>k</u> inase 1
ERK 1/2	Extracellular signal related kinase 1/2
Esrrb	Estrogen Related Receptor Beta
Ets	Transcription factor from avian E26 ( <u>E</u> - <u>T</u> wenty- <u>S</u> ix) retrovirus
FBS	fetal bovine serum
Fbx-15	F-box protein 15 (E3-Ubiquitinligase Untereinheit)
FGF 4	Fibroblast growth factor 4
Gap 1	GTPase activating enzyme 1
Grb 2	growth factor receptor binding protein 2
GSK3	Glycogen synthase kinase 3
HSPG	Heparan sulphate Proteoglycans
Id 1	Inhibitor of DNA binding and differentiation 1

JAK	Janus activated kinase
Klf4	Krüppel-like factor 4
LEF 1	<u>L</u> ymphoid <u>e</u> nhancer <u>f</u> actor 1
LIF	Leukemia inhibitory factor
LRP 6	Low-density lipoprotein receptor-related protein 6
MAPK	Mitogen activated protein kinase
MEK 1/2	MAP-ERK kinase 1/2
Mesp 1/2	<u>M</u> esoderm <u>p</u> osterior <sup>1/2</sup>
miR302	Micro.RNA locus 302
Myc	<u>M</u> yelocytomatosis virus gene (v-Myc); c-Myc, cellular Myc
Nanog	Tír na nOg [celtic: Land der ewigen Jugend]
N2B27	defined medium for ESCs
Oct 3/4	Octamere binding factor, alias Pou5f1
OKSM	Abkürzung für die 4 Yamanaka Faktoren
<i>Pou5f1</i>	Pou-domain, class5, transcription factor1 (codiert für Oct3/4)
Raf	v-raf-leukemia viral oncogene 1 oder <u>r</u> apid growing <u>f</u> ibrosarcoma (?)
Ras	<u>R</u> ats with <u>S</u> arcoma
PDK1	Phosphoinositide-dependent kinase 1
PI3K	Phosphoinositol-3 kinase
PKC	Protein Kinase C
PMS	pregnant mare serum
Rex 1	alias Zfp42, ? Retinoic acid Expressed 1 ?
Sall4	Spalt Like Transcription Factor 4
SH2P	SH2 domain containing protein; Tyrosin phosphatase 2
Smad	Small tail and mothers against decapentaplegic

SOCS 2	Suppressor of cytokine signaling; auch Cytokine inducible SH2 containing protein (CIHS)
Sos	Son of sevenless (D. melanogaster)
Sox2	SRY box 2 Sex determining Region Y
SRF	Serum response factor
SRY	Sex determination region Y
Tbx3	T-box factor 3
STAT 3	Signal Transducer and activator of transcription 3
T	Brachyury (= [griech.] Kurzer Schwanz)
TCF 1	<u>T</u> - <u>c</u> ell <u>f</u> actor 1
TERT	Telomerase reverse transcriptase
Tyk1	(Interferon alpha activated) <u>t</u> yr <sup>o</sup> sine <u>k</u> inase 2
Wnt	Wingless (wg) (D. melanogaster) + Int-1 (M. musculus)
Znf42	ZiNk Finger protein 42
3i	CHIR99021 inhibiert GSK3a, b und aktiviert so Wnt –β-catenin signaling. PD98059 oder PD03259010 inhibieren ERK1/2 Phosphorylierung und so die Differenzierung von ESCs. XAV939 inhibiert die Tankyrase = Poly-ADP-ribosyltransferase, die Differenzierung fördert.