

Table 1. The Number of Molecules of Endogenous Transcription Factors per Cell/Nucleus

Transcription Factor	DNA Binding Domain Family	Number Molecules per Cell/Nucleus	Cell Type	References
<i>Drosophila</i>				
Bcd	Homeodomain	20,000	anterior blastoderm nuclei	Little et al., 2011
Eve	Homeodomain	50,000	Eve expressing blastoderm nuclei	Walter et al., 1994
Ftz	Homeodomain	50,000	Ftz expressing blastoderm nuclei	Krause et al., 1988
GAGA	C2H2 zinc finger	1,000,000	Schneider cell line 2	Wilkins and Lis, 1998
Grainyhead	LSF/GRH	150,000	all blastoderm nuclei	Harrison et al., 2010
HSTF	Heat shock factor	32,000	Schneider cell line 2	Fritsch and Wu, 1999
Zelda	C2H2 zinc finger	250,000	all blastoderm nuclei	Harrison et al., 2010
Mouse/Rat				
AHR	bHLH-PAS	12,000; 320,000	murine NIH 3T3 fibroblast cell line; murine Hepa-1 hepatoma cell line	Holmes and Pollenz, 1997
AR	Receptor zinc finger	23,000	rat prostate tissue	Bruchofsky and Craven, 1975
ARNT	bHLH-PAS	26,000; 33,000	murine NIH 3T3 fibroblast cell line; murine Hepa-1 hepatoma cell line	Holmes and Pollenz, 1997
C/EBP β	bZIP	250,000; 2,500,000	murine macrophage; LPS stimulated macrophage	Bradley et al., 2003
CREB	bZIP	40,000	rat PC12 pheochromocytoma cell line	Conkright et al., 2003
E2A	bHLH	30,000	murine primary pro B cells	Zhuang et al., 2004
GR	Receptor zinc finger	13,000	murine primary macrophage	Salkowski and Vogel, 1992
Ikaros	C2H2 zinc finger	250,000	murine thymocytes	Bradley et al., 2003
NF-kB p65	Rel	250,000	murine macrophage	Bradley et al., 2003
TR	Receptor zinc finger	4,000	rat liver tissue	Oppenheimer et al., 1974
Human				
AP-2 α	AP-2	200,000	HepG2 hepatocarcinoma cell line	Egener et al., 2005
ER	Receptor zinc finger	11,000; 260,000	ZR-75-1 breast cancer cell line; MCF-7 breast carcinoma cell line	Reese and Katzenellenbogen, 1992
fos	bZIP	4,000	NA	De Togni et al., 1988
GR	Receptor zinc finger	100,000	HeLa carcinoma cell line	van Steensel et al., 1995
myc	bHLH-ZIP	60,000; 140,000	MCF-7 breast carcinoma cell line; HCT-116 colon carcinoma cell line	Nieddu et al., 2005
MyoD	bHLH	50,000	RD rhabdomyosarcoma cell line	S. Tapscott, personal communication
NF-kB p65	Rel	120,000	TNF α stimulated T-leukemia cell line	Hottiger et al., 1998
p53	p53	21,000; 160,000	LB19 B-lymphoblastoid cell line; MCF-7 breast carcinoma cell line	Ma et al., 2005
PR	Receptor zinc finger	200,000	T4D7 breast carcinoma cell line	Nordeen et al., 1989
P-Smad2	SMAD	20,000	TGF- β stimulated keratinocyte cell line	Zi et al., 2011
STAT2	STAT	150,000	INF α stimulated T-leukemia cell line	Hottiger et al., 1998
STAT6	STAT	10,000; 200,000	CD19+ primary B cells; B cell lymphoma cell line	Raia et al., 2011
Tcf-1	HMG	3,900,000	Jurkat T-leukemia cell line	Van de Wetering et al., 1996