

Table 1. Regionalized gene expression in the adult non-primate epididymis: genes encoding secretory proteins

Gene	Species	Tissue	Region	mRNA (kb)	Protein (kDa)	AR/TR	Identity	Reference
SGP-1	mouse	many	ED	2.6	70	ND	prosaposin	Garrett et al., 1991
matrilysin	mouse	many	ED, IS, cauda	1.1	28, 18	ND	matrix metalloprotease	Wilson et al., 1995
proenk	rat	many	IS	1.45	28	TR	proenkephalin	Garrett et al., 1990
BMP7	mouse	many	IS	1.8	49	ND	bone morphogenic/TGF β superfamily	Zhao et al., 1998
EP17	mouse	epididymis	IS	1.0, 3.1	17	TR	lipocalin	Lareyre et al., 2001
Cres	mouse	epididymis testis/pituitary	IS, p. caput	0.7	14, 19	TR	cystatin-related	Cornwall et al., 1992
BMP8a	mouse	many	IS, p. caput	1.9	45	ND	bone morphogenic/ TGF β superfamily	Zhao et al., 1998
GGTII-IV	rat	many	IS, caput	2.2, 2.4, 2.5	71	AR/TR	γ glutamyl transpeptidase	Palladino & Hinton, 1994
SGP-2	rat	many	IS, d. caput	2.1	73	AR	clusterin/ApoJ	Garrett et al., 1991
β -gal	mouse	many	IS, corpus	2.3	64	ND	galactosidase	Sonnenberg-Riethmacher et al., 1996
GPX5	mouse	epididymis	caput	1.8	24	AR/TR	glutathione peroxidase	Ghyselinck et al., 1990
POMC	mouse	many	caput	0.8	29-32	ND	proopiomelanocortin	Gizang-Ginsberg and Wolgemuth, 1987
procathepsin L	pig	many	d. caput	1.3	40	ND	cysteine protease	Okamura et al., 1995a
B/C/	rat	epididymis	d. caput	0.85	18.5	AR	retinoic acid binding protein	Brooks et al, 1986a; Lareyre et al., 1998a, b
E-RABP	mouse							
D/E/	rat	epididymis	d. caput	1.2	29-32	AR	cysteine-rich secretory protein	Brooks et al., 1986b
CRISP1	mouse	salivary gland						
CE8	dog	epididymis	caput	0.9	19	ND	single Ly-6-domain protein	Gebhardt et al., 1999
CE4	dog	epididymis	caput, cauda	0.7	13	ND	2 domain WAP protein	Pera et al., 1994
CE1	dog	many	caput, corpus, p. cauda	0.9	20	ND	insect protein	Pera et al., 1994
α -mannosidase	pig	epididymis	corpus	3.3	135	ND	glycosidase	Okamura et al., 1995b
β -hex	rat	many	corpus	1.9, 1.8	63	ND	β -hexosaminidase	Hermo et al., 1997
CD52	mouse	epididymis lymphocytes	corpus	0.6	26	AR/TR	lymphocyte antigen	Kirchhoff, 1994
NGF	mouse, rat	many	corpus	1.3	32	AR	nerve growth factor	Ayer-LeLievre et al., 1988
P26h	hamster	epididymis testis	corpus	1.0	26	ND	short chain dehydrogenase reductase	Gaudreault et al., 1999
CE10	dog	epididymis	corpus, cauda	0.7	13	ND	single domain WAP protein	Gebhardt et al., 1999
E-SOD	rat	many	corpus, cauda	1.6	25	ND	superoxide dismutase	Perry et al., 1993

Relative levels of mRNA in each epididymal region were extrapolated from published Northern blot, RNase protection assay, in situ hybridization or RTPCR studies. The epididymal region noted reflects either exclusive or predominant expression of the relevant gene. ED, efferent ducts; IS, initial segment; p., proximal; d., distal; AR, androgen-regulated; TR, testis-regulated; ND, not determined.

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