

Anhang Tabelle A1: Meningeom-assoziierte Antigene im serologischen Spotassay

Klonnum mer	Gene ID	Symbol	Gename	Chrom.Lokalisation	zelluläre Lokalisation	Signalwege
1-63	57544	TXNDC16	thioredoxin domain containing 16	14q22.1	mitochondion, extracellular space	-
1-19	4820	NKTR	natural killer-tumor recognition sequence	3p23-p21	membrane	-
1-50II	6657	SOX2	SRY (sex determining region Y)-box 2	3q26.3-q27	cytoplasm, nucleus	-
1-28(1)	287	ANK2	ankyrin 2, neuronal	4q25-q27	cytoplasm, cytoskeleton	-
1-75II	9882	TBC1D4	TBC1 domain family, member 4	13q22.2	-	-
3-3	57695	USP37	ubiquitin specific peptidase 37	2q35	nucleus	-
2-32(1)	88745	C6orf153	chromosome 6 open reading frame 153	6p21.1		-
H4 18-11	4253	MGEA11	CTAGE family, member 5	14q13.3	cytoplasm, mitochondion	-
1-34II	51199	NIN	ninein (GSK3B interacting protein)	14q22.1	centrosome, microtubule	-
2-14	4904	YBX1	Y box binding protein 1	1p34	cytoplasm, nucleus	-
3-11	10609	SC65	synaptonemal complex protein SC65	17q21.2	nucleolus, nucleus, synaptonemal complex	-
1-90III	10464	PIBF1	progesterone immunomodulatory binding factor 1	13q22.1	-	-
1-51	56954	NIT2	nitrilase family, member 2	3q12.2	cytoplasm, mitochondrion	-
H4 33-19	93663	ARHGAP18	Rho GTPase activating protein 18	6q22.33	intracellular	-
H4 11-9	3488	IGFBP5	insulin-like growth factor binding protein 5	2q33-q36	endoplasmatic reticulum, extracellular region, insulin-like growth factor binding complex	-
H4 33-20	10724	MGEA5s	meningioma expressed antigen 5 (hyaluronidase)	10q24.1-q24.3	cytoplasm, nucleus	-
1-3II	8658	TNKS	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase	8p23.1	Golgi apparatus, Golgi membrane, chromosome, chromosome, telomeric region, cytoplasm, membrane, nuclear pore, nucleus	-
2-36(1)	55219	TMEM57	transmembrane protein 57	1p36.11	integral to membrane, membrane, nucleus	-
H83 2-2	9448	MAP4K4	mitogen-activated protein kinase kinase kinase 4	2q11.2-q12	cellular_component	MAPK signaling pathway
1-29	5048	PAFAH1B1	platelet-activating factor acetylhydrolase, isoform 1b, alpha subunit 45kDa	17p13.3	astral microtubule, cell cortex, centrosome, cytoplasm, cytosol, kinetochore, leading edge, membrane, microtubule, microtubule associated complex, motile primary cilium, NOT nonmotile primary cilium, nuclear membrane, nucleus, perinuclear region of cytoplasm, spindle	hsa00565 Ether lipid metabolism

2-21	7170	TPM3	tropomyosin 3	1q21.2	cleavage furrow, cortical cytoskeleton, cytoplasm, cytoskeleton, filamentous actin, growth cone, muscle thin filament tropomyosin, neuron projection, podosome	hsa05216 Thyroid cancer
3-6	3178	HNRNPA1	heterogeneous nuclear ribonucleoprotein A1	12q13.1	cytoplasm, cytoplasm, heterogeneous nuclear ribonucleoprotein complex, nucleoplasm, nucleus, spliceosome	-
2-11	8315	BRAP	BRCA1 associated protein	12q24	cytoplasm	-
H4 2-2	4337	MOCS1	molybdenum cofactor synthesis 1	6p21.3	molybdopterin synthase complex, nucleus	-
2-5	55827	IQWD1	IQ motif and WD repeats 1	1q24.2	nucleus	-
H4 8-6	4253	CTAGE5	CTAGE family, member 5	14q13.3	-	-
1-40	6531	SLC6A3	solute carrier family 6 (neurotransmitter transporter, dopamine), member 3	5p15.3	Cytoplasm, integral to plasma membrane, plasma membrane	-
3-9	9832	JAKMIP2	janus kinase and microtubule interacting protein 2	5q32	Golgi apparatus	-
1-56	23328	SASH1	SAM and SH3 domain containing 1	6q24.3	-	-
1-121	9925	ZBTB5	zinc finger and BTB domain containing 5	9p13.2	intracellular nucleus	-
Primär2	23387	KIAA0999	KIAA0999 protein	11q23.3	cytoplasm	-

							Glycolysis / Gluconeogenesis Citrate cycle (TCA cycle) Alanine and aspartate metabolism Glycine, serine and threonine metabolism Valine, leucine and isoleucine degradation Pyruvate metabolism Cell Communication
1-33III	1738	DLD	dihydrolipoamide dehydrogenase	7q31-q32	cytoplasm, mitochondrial matrix, mitochondrial matrix, mitochondrion		
1-17(1)II	9118	INA	internexin neuronal intermediate filament protein, alpha	10q24.33	neurofilament		
1-42III	9295	SFRS11	splicing factor, arginine/serine-rich 11	1p31	NOT nucleolus, nucleus		-
3-2	7184	HSP90B1	heat shock protein 90kDa beta (Grp94), member 1	12q24.2-q24.3	Cytosol, endoplasmic reticulum, endoplasmic reticulum lumen, endoplasmic reticulum membrane, melanosome, microsome, perinuclear region of cytoplasm	hsa05215 Prostate cancer	
H4 10-8	1490	CTGF	connective tissue growth factor	6q23.1	extracellular region plasma membrane PubMed 10809757 TAS, proteinaceous extracellular matrix PubMed 10809757 TAS	IEA	-
1-64II	80173	IFT74	intraflagellar transport 74 homolog (Chlamydomonas)	9p21.2	-		-
H4 22-14	4253	CTAGE5	CTAGE family, member 5	14q13.3	-		-
1-24	135112	NCOA7	nuclear receptor coactivator 7	6q22.31-q22.32	intracellular, nucleus		-
1-43II	333	APLP1	amyloid beta (A4) precursor-like protein 1	19q13.1	basement membrane, cytoplasm, integral to membrane, membrane fraction, plasma membrane	Neurodegenerativ e Diseases Prion disease	
H4 39-22	2186	BPTF	bromodomain PHD finger transcription factor	17q24.3	Cytoplasm, nucleus		-

H170 3-4	6597	SMARCA4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	19p13.2	heterochromatin, nucleoplasm, nucleus	-
H46 1-2	3326	HSP90AB1	heat shock protein 90kDa alpha (cytosolic), class B member 1	6p12	cellular_component, cytoplasm, melanosome	Antigen processing and presentation
1-7	80351	TNKS2	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2	10q23.3	Golgi apparatus, Golgi membrane, chromosome, chromosome, telomeric region, cytoplasm, membrane	-
1-27II	3516	RBPJ	recombination signal binding protein for immunoglobulin kappa J region	4p15.2	nucleus	Notch signaling pathway
2-3	9055	PRC1	protein regulator of cytokinesis 1	15q26.1	nucleolus, nucleus	-
1-11 II	1010	CDH12	cadherin 12, type 2 (N-cadherin 2)	5p14-p13	spindle microtubule integral to membrane, plasma membrane	-
H15 3-5	9092	SART1	squamous cell carcinoma antigen recognized by T cells	11q13.1	cytoplasm, nucleus, spliceosome	-
3-14	4301	MLLT4	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 4	6q27	cell-cell junction, cellular_component,	Adherens junction Tight junction Leukocyte transendothelial migration
1-45	57142	RTN4	reticulon 4	2p16.3	endoplasmic reticulum, endoplasmic reticulum membrane, integral to endoplasmic reticulum membrane, integral to membrane, membrane,	-
H4 45-26	10724	MGEA5	meningioma expressed antigen 5 (hyaluronidase)	10q24.1-q24.3	nuclear envelope	-
H4 13-10	54861	SNRK	SNF related kinase	3p22.1	cytoplasm, nucleus	-
1-8II	142	PARP1	poly (ADP-ribose) polymerase 1	1q41-q42	nucleus	Base excision repair

H15 1-1	23075	SWAP70	SWAP-70 protein	11p15	cell projection, cytoplasm, nucleus, plasma membrane	-
1-23	55357	TBC1D2	TBC1 domain family, member 2	9q22.33	intracellular	-
2-2	79632	FAM184A	family with sequence similarity 184, member A	6q22.31	-	-
1-48II	92715	WDR85	WD repeat domain 85	9q34.3	-	-