





















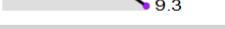


Spleen - Downregulated

List of differentially epxressed genes

TRANSCRIPT	GENE	PROTEIN	SUMMARY	EXPRESSION_OVER_TIME
ENST00000233505	CENPA	centromere protein A	Component of the centromere	 7.6
ENST00000240423	NCAPH	non-SMC condensin I complex subunit H	Interphase chromosome condensation	 7.1
ENST00000251496	NCAPG	non-SMC condensin I complex subunit G	Chromosome condensation and stabilization	 7.9
ENST00000260359	NUSAP1	nucleolar and spindle associated protein 1	Spindle microtubule organization	 8.6
ENST00000260731	KIF11	kinesin family member 11	Spindle dynamics	 8.3
ENST00000287598	BUB1B	BUB1 mitotic checkpoint serine/threonine kinase B	Spindle checkpoint function	 8.1
ENST00000300093	PLK1	polo like kinase 1	Highly expressed during mitosis	 7.7
ENST00000302759	BUB1	BUB1 mitotic checkpoint serine/threonine kinase	Central role in mitosis	 7.3
ENST00000306324	HOXD4	homeobox D4		 6.8
ENST00000310955	CDC20	cell division cycle 20	Nuclear movement in the cell cycle	 8.3
ENST00000313288	TACC3	transforming acidic coiled-coil containing protein 3	Stabilization of the mitotic spindle	 7.7
ENST00000327331	CDCA8	cell division cycle associated 8	Regulator of mitosis	 7.8
ENST00000335658	DPPA4	developmental pluripotency associated 4	Stem cell pluripotency	 6.7
ENST00000348459	HELLS	helicase, lymphoid specific	Involved with cellular proliferation	 7.2
ENST00000348581	EXO1	exonuclease 1	Mismatch repair	 7.5
ENST00000349718	CMTM7	CKLF like MARVEL transmembrane domain containing 7	Regulates G1/S transition	 7.6
ENST00000352331	KIF23	kinesin family member 23	Moves chromosomes	 7.7
ENST00000352433	PTTG1	PTTG1 regulator of sister chromatid separation, securin	Anaphase-promoting complex substrate	 9.4
ENST00000355112	BLM	BLM RecQ like helicase	Unwinds Holliday junction	 7.2
ENST00000357481	ACIN1	apoptotic chromatin condensation inducer 1	Induces apoptotic chromatin condensation	 7.9
ENST00000359803	MDK	midkine	Promotes cell growth	 9.4
ENST00000361953	FOXM1	forkhead box M1	Transcriptional activator in proliferation	 7.6
ENST00000366955	CENPF	centromere protein F	Associates with centromer-kinetochore complex	 8.2
ENST00000371566	ORC1	origin recognition complex subunit 1	Initiation of DNA replication	 7.0
ENST00000372462	CDC20	cell division cycle 20	Regulatory in the cell cycle	 8.3
ENST00000374403	KIF4A	kinesin family member 4A	Maintaining chromosome integrity in mitosis	 8.1
ENST00000380026	CENPE	centromere protein E	Stable spindle microtubule capture	 8.1
ENST00000380756	DNMT3A	DNA methyltransferase 3 alpha	CpG methylation	 7.7
ENST00000382011	MCM5	minichromosome maintenance complex component 5	Initiation of DNA replication	 8.1
ENST00000395284	CDK1	cyclin dependent kinase 1	Subunit of M-phase promoting factor	 8.7
ENST00000395405	ZWINT	ZW10 interacting kinetochore protein	Involved in kinetochore function	 8.9
ENST00000396863	MYBL2	MYB proto-oncogene like 2	Cell cycle progression	 7.6
ENST00000404276	CHEK2	checkpoint kinase 2	Cell cycle checkpoint regulator	 7.4
ENST00000412359	BUB1B	BUB1 mitotic checkpoint serine/threonine kinase B	Spindle checkpoint function	 8.1
ENST00000414849	NUSAP1	nucleolar and spindle associated protein 1	Spindle microtubule organisation	 8.7
ENST00000420246	TP53	tumor protein p53	Inducing cell cycle arrest	 7.3
ENST00000427946	NCAPH	non-SMC condensin I complex subunit H	Subunit of condensin complex	 7.1
ENST00000428239	CDC7	cell division cycle 7	Cell division cycle protein	 8.0
ENST00000433496	RFC4	replication factor C subunit 4	DNA polymerase accessory	 8.3
ENST00000515001	CENPH	centromere protein H	Centromere-microtubule complex	 7.6
ENST00000518483	EXO1	exonuclease 1	Mismatch repair	 7.5
ENST00000520452	PTTG1	PTTG1 regulator of sister chromatid separation, securin	Anaphase-promoting complex substrate	 9.4
ENST00000534871	AURKB	aurora kinase B	Segregation of chromosomes	 7.7
ENST00000535254	BUB1	BUB1 mitotic checkpoint serine/threonine kinase	Central role in mitosis	 7.3
ENST00000561208	MEIS2	Meis homeobox 2	Contributor to developmental programs	9.3