

**Supplementary Material 1 : List of genes located in the deleted 11 p arm region.**

Name	Refseq	Description	Cytobands	Down and Up Regulation	Pathway Link
CALCA	NM_001033953	calcitonin/calcitonin-related polypeptide, alpha	11p15.2		
CALCB	NM_000728	calcitonin-related polypeptide, beta	11p15.2		
INSC	NM_001031853	inscuteable homolog (Drosophila)	11p15.2		
SOX6	NM_001145811	SRY (sex determining region Y)-box 6	11p15.2 - 11p15.1	X (-3,02)	X
C11orf58	NM_001142705	small acidic protein	11p15.1	X (-2,00)	
PLEKHA7	NM_175058	pleckstrin homology domain containing, family A member 7	11p15.1		
RPS13	NM_001017	ribosomal protein S13	11p15.1	X (-2,64)	
PIK3C2A	NM_002645	phosphoinositide-3-kinase, class 2, alpha polypeptide	11p15.1	X (-1,61)	
NUCB2	NM_005013	nucleobindin 2	11p15.1	X (-2,05)	
KCNJ11	NM_000525	potassium inwardly-rectifying channel, subfamily J, member 11	11p15.1		
ABCC8	NM_000352	ATP-binding cassette, sub-family C (CFTR/MRP), member 8	11p15.1		
USH1C	NM_005709	Usher syndrome 1C (autosomal recessive, severe)	11p15.1		
MYOD1	NM_002478	myogenic differentiation 1	11p15.1		X
KCNC1	NM_001112741	potassium voltage-gated channel, Shaw-related subfamily, member 1	11p15.1		
SERGEF	NM_012139	deafness locus associated putative guanine nucleotide exchange factor	11p15.1	X (-2,25)	
TPH1	NM_004179	tryptophan hydroxylase 1 (tryptophan 5-monooxygenase)	11p15.1		
SAAL1	NM_138421	serum amyloid A-like 1	11p15.1		
SAA3P	NR_026576	serum amyloid A3 pseudogene	11p15.1		
MRGPRX3	NM_054031	frizzled homolog 4 (Drosophila)	11p15.1		
MRGPRX4	NM_054032	MAS-related GPR, member X4	11p15.1		
LOC494141	NR_026541	mitochondrial carrier triple repeat 1 pseudogene	11p15.1		
SAA4	NM_006512	serum amyloid A4, constitutive	11p15.1		
SAA2	NM_001127380	serum amyloid A2	11p15.1		
SAA1	NM_000331	serum amyloid A1	11p15.1		
HPS5	NM_007216	Hermansky-Pudlak syndrome 5	11p15.1		
GTF2H1	NM_001142307	general transcription factor IIH, polypeptide 1, 62kDa	11p15.1	X (-1,76)	X
LDHA	NM_001135239	lactate dehydrogenase A	11p15.1		
LDHC	NM_002301	lactate dehydrogenase C	11p15.1		
LDHAL6A	NM_001144071	Lactate dehydrogenase A-like 6A	11p15.1		
TSG101	NM_006292	tumor susceptibility gene 101	11p15.1	X (-1,72)	X
UEVLD	NM_001040697	ubiquitin-conjugating enzyme E2-like	11p15.1	X (-1,59)	
SPTY2D1	NM_194285	SPT2, Suppressor of Ty, domain containing 1 (S. cerevisiae)	11p15.1		
TMEM86A	NM_153347	transmembrane protein 86A	11p15.1		

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MRGPRX1	NM_147199	MAS-related GPR, member X1	11p15.1		
MRGPRX2	NM_054030	MAS-related GPR, member X2	11p15.1		
ZDHHC13	NM_001001483	zinc finger, DHHC-type containing 13	11p15.1		
CSRP3	NM_001127656	cysteine and glycine-rich protein 3 (cardiac LIM protein)	11p15.1		
E2F8	NM_024680	E2F transcription factor 8	11p15.1	X (-1,84)	
NAV2	NM_001111018	neuron navigator 2	11p15.1		
DBX1	NM_001029865	developing brain homeobox 1	11p15.1		
HTATIP2	NM_006410	HIV-1 Tat interactive protein 2, 30kDa	11p15.1	X (-2,21)	X
PRMT3	NM_001145166	HMT1 hnRNP methyltransferase-like 3 (S. cerevisiae)	11p15.1		
SLC6A5	NM_004211	solute carrier family 6 (neurotransmitter transporter, glycine), member 5	11p15.1		
NELL1	NM_006157	NEL-like 1 (chicken)	11p15.1		
ANO5	NM_001142649	transmembrane protein 16E	11p14.3	X (-1,78)	
SLC17A6	NM_020346	solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 6	11p14.3		
FANCF	NM_022725	Fanconi anemia, complementation group F	11p14.3		
GAS2	NM_001143830	growth arrest-specific 2	11p14.3		
SVIP	NM_148893	Hypothetical protein DKFZp313A2432	11p14.3		
LUZP2	NM_001009909	leucine zipper protein 2	11p14.3		
ANO3	NM_031418	transmembrane protein 16C	11p14.2		
MUC15	NM_001135091	Mucin 15	11p14.2		
SLC5A12	NM_178498	Solute carrier family 5 (sodium/glucose cotransporter), member 12	11p14.2		
FIBIN	NM_203371	fin bud initiation factor homolog (zebrafish)	11p14.2		
BBOX1	NM_003986	butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 1	11p14.2		
CCDC34	NM_030771	Coiled-coil domain containing 34	11p14.1		
LGR4	NM_018490	leucine-rich repeat-containing G protein-coupled receptor 4	11p14.1		
LIN7C	NM_018362	lin-7 homolog C (C. elegans)	11p14.1		
BDNF	NM_001143805	brain-derived neurotrophic factor	11p14.1		
KIF18A	NM_031217	kinesin family member 18A	11p14.1		
METT5D1	NM_001113528	Methyltransferase 5 domain containing 1	11p14.1	1,86	
KCNA4	NM_002233	potassium voltage-gated channel, shaker-related subfamily, member 4	11p14.1		
FSHB	NM_000510	Follicle stimulating hormone, beta polypeptide	11p14.1		

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MPPED2	NM_001145399	metallophosphoesterase domain containing 2	11p14.1	X (-2,02)	
DCDC1	NM_181807	doublecortin domain containing 1	11p13		
DNAJC24	NM_181706	zinc finger, CSL-type containing 3	11p13		
IMMP1L	NM_144981	IMP1 inner mitochondrial membrane peptidase-like (S. cerevisiae)	11p13		
ELP4	NM_019040	elongation protein 4 homolog (S. cerevisiae)	11p13		
PAX6	NM_000280	paired box gene 6 (aniridia, keratitis)	11p13		
RCN1	NM_002901	Down syndrome critical region gene 1	11p13	X (-2,89)	
WT1	NM_000378	Wilms tumor 1	11p13		X
WIT1	NR_023920	Wilms tumor upstream neighbor 1	11p13		
EIF3M	NM_006360	dendritic cell protein	11p13	X (-1,93)	
CCDC73	NM_001008391	coiled-coil domain containing 73	11p13		
PRRG4	NM_024081	proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane)	11p13		
QSER1	NM_001076786	Hypothetical protein FLJ21924	11p13		
DEPDC7	NM_001077242	novel 58.3 KDA protein	11p13		
TCP11L1	NM_018393	t-complex 11 (mouse) like 1	11p13		
LOC283267	NR_015451	hypothetical protein LOC283267	11p13		
CSTF3	NM_001326	cleavage stimulation factor, 3' pre-RNA, subunit 3, 77kDa	11p13		
HIPK3	NM_001048200	homeodomain interacting protein kinase 3	11p13	X (-1,73)	
C11orf41	NM_012194	chromosome 11 open reading frame 41	11p13	X (-1,53)	
C11orf91	NM_001166692	chromosome 11 open reading frame 91	11p13		
CD59	NM_000611	CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32 and G344)	11p13		
FBXO3	NM_012175	F-box protein 3	11p13	X (-1,75)	
LMO2	NM_001142315	LIM domain only 2 (rhombotin-like 1)	11p13		
CAPRIN1	NM_005898	GPI-anchored membrane protein 1	11p13		
NAT10	NM_001144030	N-acetyltransferase-like protein	11p13		
ABTB2	NM_145804	ankyrin repeat and BTB (POZ) domain containing 2	11p13		
CAT	NM_001752	catalase	11p13		
ELF5	NM_001422	E74-like factor 5 (ets domain transcription factor)	11p13		
EHF	NM_012153	ets homologous factor	11p13		
APIP	NM_015957	APAF1 interacting protein	11p13	X (-2,28)	

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CD44	NM_000610	CD44 antigen (homing function and Indian blood group system)	11p13	X (-1,82)	X
SLC1A2	NM_004171	Solute carrier family 1 (glial high affinity glutamate transporter), member 2	11p13	X (-2,17)	
PAMR1	NM_001001991	regeneration associated muscle protease	11p13		
FJX1	NM_014344	four jointed box 1 (Drosophila)	11p13		
TRIM44	NM_017583	tripartite motif-containing 44	11p13		
LDLRAD3	NM_174902	low density lipoprotein receptor class A domain containing 3	11p13		
COMMMD9	NM_001101653	COMM domain containing 9	11p13		
PRR5L	NM_001160167	hypothetical protein FLJ14213	11p13 - p12		
TRAF6	NM_004620	TNF receptor-associated factor 6	11p12		X
RAG1	NM_000448	recombination activating gene 1	11p12		
RAG2	NM_000536	recombination activating gene 2	11p12		
C11orf74	NM_138787	HEPIS	11p12		
LRRC4C	NM_020929	Leucine rich repeat containing 4C	11p12		
API5	NM_001142930	apoptosis inhibitor 5	11p12	X (-1,59)	
TTC17	NM_018259	Tetratricopeptide repeat domain 17	11p12 - 11p11.2	X (-1,69)	
HSD17B12	NM_016142	hydroxysteroid (17-beta) dehydrogenase 12	11p11.2	X (-2,20)	
ALKBH3	NM_139178	hypothetical protein LOC221120	11p11.2	X (-1,68)	
LOC729799	NR_026952	SEC14-like 1 pseudogene	11p11.2		
LOC387763	NM_001145033	hypothetical protein LOC387763	11p11.2		
ACCS	NM_001127219	1-aminocyclopropane-1-carboxylate synthase	11p11.2		
EXT2	NM_000401	exostoses (multiple) 2	11p11.2		
ALX4	NM_021926	aristaless-like homeobox 4	11p11.2		
CD82	NM_001024844	CD82 antigen	11p11.2		
TSPAN18	NM_130783	tetraspanin 18	11p11.2	2,69	
TP53I11	NM_001076787	Tumor protein p53 inducible protein 11	11p11.2		
LOC221122	NR_026681	hypothetical protein LOC221122	11p11.2		
PRDM11	NM_020229	PR domain containing 11	11p11.2		
SYT13	NM_020826	synaptotagmin XIII	11p11.2		
CHST1	NM_003654	carbohydrate (keratan sulfate Gal-6) sulfotransferase 1	11p11.2		
DKFZp779M0652	NR_027134	Hypothetical protein DKFZp779M0652	11p11.2		
SLC35C1	NM_001145265	solute carrier family 35, member C1	11p11.2		
CRY2	NM_001127457	cryptochrome 2 (photolyase-like)	11p11.2		
MAPK8IP1	NM_005456	mitogen-activated protein kinase 8 interacting protein 1	11p11.2	X (-1,75)	

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PEX16	NM_004813	peroxisomal biogenesis factor 16	11p11.2		
GYLTL1B	NM_152312	glycosyltransferase-like 1B	11p11.2	X (-1,97)	
PHF21A	NM_001101802	PHD finger protein 21A	11p11.2		X
CREB3L1	NM_052854	cAMP responsive element binding protein 3-like 1	11p11.2		
DGKZvar4	NM_201532	diacylglycerol kinase, zeta 104kDa	11p11.2	X (-1,75)	X
MDK	NM_001012334	midkine (neurite growth-promoting factor 2)	11p11.2		
CHRM4	NM_000741	cholinergic receptor, muscarinic 4	11p11.2		
AMBRA1	NM_017749	Hypothetical protein FLJ20294	11p11.2	2,47	