

Fig. S1 Results from the Blood cohort. A Normalized expression of L1 elements. B Espression ratio of L1 elements between ASD and control siblings.

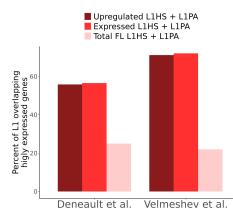


Fig. S2 Overlap between different groupings of L1 and expressed genes.

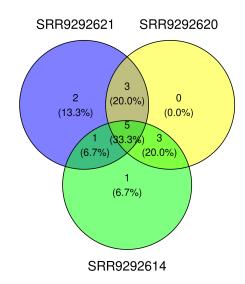


Fig. S3 Overlaps between negatively correlated genes from the 3 ACC significant samples of the Velmeshev dataset.

	chr1:220,814,156-220,822,856								
	←	,000 bp 2							
Coverage	[9-70]								
SRR9292621									
Refseq Genes	MARK1	• • • • •							
SINE		AluJr							
LINE	LIPA10	L1ME4a							

Fig. S4 Reads mapping on L1 intronic to the MARK1 gene in the SRR9292621 sample.

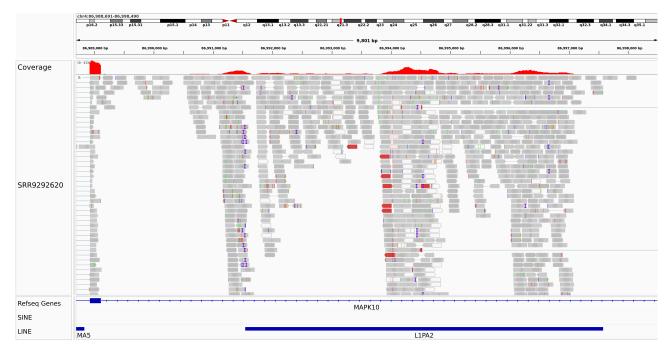


Fig. S5 Reads mapping on L1 intronic to the MAPK10 gene in the SRR9292620 sample.

	chr18:3,692,278-3,703,551										
	p11.32 p11.31 p	p11.23 p11.21	p11.1	q11.2 q12.1	q12.2	q12.3	q21.1	q21.2 q21.31 q	21.32 q21.33	q22.1 q22.2	q22.3 q23
	۰ ۱	3,694 kb 	1	3,696 kb 	1	- 11 kb	1	3,700 kb 	1	3,702 kb	
Coverage	[0 - 245]		Alberton .		-						
SRR9292614											
Refseq Genes		****	*****	*****		DLGAP1	· · · · · · · · · · · · ·		** ** ** **	** ** ** ** **	
SINE	Aluj		AluY						AluY	AluSq	2
LINE	,		PA7			L1PA7			-	, 1004	_

Fig. S6 Reads mapping on L1 intronic to the DLGAP1 gene in the SRR9292614 sample.