Online Supplementary file

Section 1. Descriptive statistics

Table S1.1 – Descriptive statistics

					Std.				
	N	Minimum	Maximum	Mean	Deviation	Skewr	iess	Kurto	osis
	~	~ · ·		a	a	a	Std.	a	Std.
Variable	Statistic	Statistic	Statistic	Statistic	Statistic	Statistic		Statistic	Error
Age when completed module	204	.51	6.98	3.2547	1.61429	.472	.170	843	.339
Communication									
Best expressive language	145	1.00	6.00	2.3241	1.14190	.357	.201	470	.400
Best receptive language	108	1.00	5.00	2.3241	1.17472	.433	.233	-1.066	.461
Frequency of speaking words or word approximations	181	1.00	5.00	1.6851	1.24063	1.837	.181	2.106	.359
Please rate your child/adult ability to use									
the following communication									
methods/systems:									
Spoken words	187	1.00	5.00	1.4492	.92825	2.249	.178	4.680	.354
Gestures	187	1.00	5.00	2.5348	1.23681	.376	.178	746	.354
Signing	182	1.00	5.00	1.5495	.94330	1.573	.180	1.366	.358
Visual Pictures	178	1.00	5.00	1.6348	.90593	1.343	.182	1.052	.362
Eye tracking devices	174	1.00	5.00	1.1149	.50260	5.189	.184	29.837	.366
Low tech AAC	175	1.00	5.00	1.4629	.74859	1.750	.184	3.234	.365
High tech AAC	181	1.00	5.00	1.5580	.92087	1.684	.181	2.380	.359
Gross Motor Function - please describe									
your child/adult's ability to do the									
following:									
Walking (unassisted)	147	1.00	5.00	2.5374	1.59740	.391	.200	-1.489	.397
Sit up	192	1.00	5.00	3.9531	1.33925	-1.182	.175	.213	.349
Fine Motor Function please describe									
your child/adult's ability to do the									
following:									
Hold things, such as a stuffed toy	174	1.00	5.00	4.6264	.69148	-2.321	.184	6.535	.366
Point to indicate things	142	1.00	5.00	2.5563	1.56887	.409	.203	-1.407	.404
Transfer things between hands	164	1.00	5.00	4.2683	.97890	-1.476	.190	1.872	.377
Adaptive Skills – Dressing - please									
describe your child/adult's ability to do									
the following:									
Put up their hands to help dress	148	1.00	5.00	2.9324	1.64405	039	.199	-1.646	.396
Take off simple clothes such as socks	145	1.00	5.00	2.5655	1.56264	.331	.201	-1.462	.400
Take off complex clothes such as shirts	125	1.00	5.00	1.4960	.96406	1.932	.217	2.856	.430
Dress themselves, even if not always	119	1.00	5.00	1.1765	.64633	4.413	.222	21.146	.440
right (eg buttons not lined up, clothes									
back to front)									

Adaptive Skills – Toileting and									
Continence - please describe your									
child/adult's ability to do the following:									
Is continent (toilet trained)	133	1.00	5.00	1.6842	1.19575	1.633	.210	1.422	.417
Showed indications of toileting	134	1.00	5.00	1.7761	1.19926	1.478	.209	1.111	.416
behaviours									
Indicates when they want to go to the	129	1.00	5.00	1.6977	1.22860	1.754	.213	1.950	.423
toilet									
Continent of stools (bowel movements)	126	1.00	5.00	1.7381	1.30953	1.563	.216	.964	.428
Continent of urine (dry) during the day	122	1.00	5.00	1.7131	1.35134	1.662	.219	1.167	.435
Adaptive Behaviour: Eating - please									
describe your child/adult's ability to do									
the following:									
Hold a bottle	179	1.00	5.00	3.9832	1.28288	-1.131	.182	.142	.361
Hold a cup or tumbler and drink	156	1.00	5.00	3.4679	1.55094	533	.194	-1.265	.386
Finger feed	159	1.00	5.00	3.8553	1.24695	-1.071	.192	.223	.383
Chew all textures	150	1.00	5.00	3.5133	1.30429	545	.198	786	.394
Feed self using fingers or utensils	158	1.00	5.00	3.4747	1.28539	563	.193	702	.384
Indicates that they are full	148	1.00	5.00	3.8649	1.36849	-1.012	.199	257	.396
Behaviour									
How problematic do you see your child/	163	1	10	5.88	2.792	094	.190	-1.117	.378
adult's behaviour on a scale of 1 to 10									
in comparison to age matched typical									
peers?									
Appropriate affect	165	1.00	5.00	3.9788	.88060	823	.189	.405	.376
Self injury	162	1.00	5.00	1.3632	.66509	2.982	.191	11.190	.379
Spontaneous affect	165	1.00	5.00	2.2788	1.08156	.663	.189	312	.376
Anxiety	162	1.00	4.83	2.3005	.84405	.443	.191	074	.379
Behaviour Dysregulation	161	1.00	5.00	2.2939	.85836	.646	.191	.122	.380
Repetitive Behaviours	162	1.00	5.00	2.2757	.98930	.550	.191	482	.379
Valid N (listwise)	42								

Section 2. Frequencies and age descriptives Speech and Communication

Table S2.1

Frequency Speaking and age first spoke

Imp	orinting ce	entre	e defect/ U	JPD/U	JBE3A l	Mutation	!						Chr	omosome	dele	tion									
Ne													Nev	er	Rar	ely	Som	etimes	Most o	f the time	Alv	vays	Age	first sp	ooke
N	Never Rarely Sometimes Most of the time Always Age first sp N % N % N % N M											SD	N	%	N	%	N	%	N	%	N	%	N	M	SD
27	62.8%	5	11.6%	1	2.3%	2	4.7%	8	18.6%	30	2.97	1.509	89	72.4%	20	16.3%	7	5.7%	0	0.0%	7	5.7%	62	3.48	2.775

Table S2.2

Most effective verbal language

Impri	nting cent	tre defe	ct/ UPD/	UBE3A	Mutation	ı						Chron	nosome d	eletion									
Moan	Moans Babbles Intentional Single words 2-3 word Long phrases phrases speed											Moan	s	Babbl	les	Intent sound		Single words		2-3 we phrase		Longe phrase speech	e .
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
11	26.2%	5	11.9%	18	42.9%	8	19.0%	0	0.0%	0	0.0%	34	37.0%	16	17.4%	35	38.0%	4	4.3%	2	2.2%	1	1.1%

Table S2.3
Best understanding

Imprint	ing centre	defect/ U	PD/UBE3	BA Mutatio	on					Chromo	some dele	etion							
	ngle word, ch as no commands such as Don't Touch Single step- step e.g Go to step step as Don't Touch longer sentence i,e, Go to your room and bring back your room now. water bottle.										vord, no	Simple p comman as Don	nds such	Comman single st longer s i,e, Go t room no	tep- entence o your	Comma step e.g your roo bring be water be	Go to om and ack your	Comma step	nds 3
N					%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
4	11.4%	7	20.0%	7	20.0%	16	45.7%	1	2.9%	22	34.9%	27	42.9%	8	12.7%	6	9.5%	0	0.0%

Table S2.4
Use of speech

Imprin	ting centre	defect/ [JPD/UBE	3A Mutati	on					Chromo	some del	etion							
1.00 D	2.00 Rarely uses 3.00 Uses for single requests regularly 3.00 Uses for single requests regularly 4.00 Communicates effectively with known people known an unknown									1.00 Do	esn't	2.00 Ra uses	rely	3.00 Us single re regularl	equests	4.00 Commu effective known p	ely with	5.00 Commu effective known a unknow	ely with
N	% N % N % N		N	%	N	%	N	%	N	%	N	%	N	%	N	%			
24	55.8%	7	16.3%	9	20.9%	0	0.0%	3	7.0%	109	83.8%	11	8.5%	6	4.6%	2	1.5%	2	1.5%

Table S2.5

Gestures

Imprint	ing centre	defect/ U	PD/UBE	3A Mutati	on					Chromo	some del	etion							
1.00 Do	regularly effectively with effectivel known people known ar unknown									1.00 Do	esn't	2.00 Ra uses	rely	3.00 Usi single re regulari	equests	4.00 Commu effective known p	ely with	5.00 Commu effective known a unknow	ely with
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
6	13.6%	6	13.6%	15	34.1%	7	15.9%	10	22.7%	41	31.8%	35	27.1%	38	29.5%	12	9.3%	3	2.3%

Table S2.6

Signing

Imprin	ting centre	defect/	JPD/UBE.	3A Mutati	on					Chromo	some dele	etion							
1.00 D use	regularly effectively with effectively w known people known and unknown pe								ely with and	1.00 Do	esn't	2.00 Ra uses	rely	3.00 Us single r regular	equests	4.00 Commu effective known p		5.00 Commu effective known c unknow	ely with
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
17	38.6%	6	13.6%	15	34.1%	5	11.4%	1	2.3%	100	80.6%	15	12.1%	7	5.6%	2	1.6%	0	0.0%

Table S2.7
Visual pictures

Imprin	ting centre	defect/ l	JPD/UBE.	3A Mutati	on					Chromo	some del	etion							
1.00 D use	regularly effectively with effectively w known people known and unknown peo									1.00 Do	oesn't	2.00 Ra uses	rely	3.00 Us single re regulari	equests	4.00 Commu effective known p	ely with	5.00 Commu effective known c unknow.	ely with
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
17	39.5%	10	23.3%	11	25.6%	4	9.3%	1	2.3%	83	68.6%	27	22.3%	8	6.6%	3	2.5%	0	0.0%

Table S2.8

Eye tracking devices

Imprin	ting centre	defect/ U	PD/UBE3	A Mutatio	on					Chromo	some dele	etion							
1.00 Da	1.00 Doesn't use 2.00 Rarely uses 3.00 Uses for single requests regularly effectively with known people known a unknown									1.00 Do	esn't	2.00 Ra uses	irely	3.00 Us single r regular	equests	4.00 Commu effective known p	ely with	5.00 Commu effective known c unknow	ely with
N					%	N	%	N	%	N	%	N	%	N	%	N	%		
41	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	110	91.7%	4	3.3%	4	3.3%	1	0.8%	1	0.8%

Table S2.9
Low tech AAC

Imprin	ting centre	e defect/	<i>UPD/UBE</i>	3A Mutat	ion					Chromo	some del	etion							
1.00 Do use	regularly effectively with effectively known people known and unknown p										oesn't	2.00 Ra uses	rely	3.00 Us single re regulari	equests	4.00 Commu effective known p	ely with	effective known d	•
N			%	N	%	N	%	N	%	N	%	N	%	N	%				
19	46.3%	13	31.7%	7	17.1%	1	2.4%	1	2.4%	85	70.2%	27	22.3%	8	6.6%	1	0.8%	0	0.0%

Table S2.10

High tech AAC

Imprin	ting centre	e defect/ (UPD/UBE	3A Mutat	ion					Chromo	osome dele	etion							
1.00 De use	regularly effectively with effectively known people known and unknown p									1.00 Do	oesn't	2.00 Ra uses	rely	3.00 Us single re regular	equests	4.00 Commu effective known p	ely with	effective known d	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
24	57.1%	5	11.9%	11	26.2%	0	0.0%	2	4.8%	88	70.4%	23	18.4%	12	9.6%	1	0.8%	1	0.8%

Gross and fine motor

Table S2.11

Gross motor sit

Imprint	ing centre	defect/ U	PD/UBE3	3A Mutatio	on					Chromo	some dele	etion							
	able to activity	2.00 Sev difficulty		3.00 Mo difficulty		4.00 Mil difficulty		5.00 No difficulty		1.00 Un perform		2.00 Sev difficulty		3.00 Mo difficulty		4.00 Mil difficulty		5.00 No difficulty	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1	2.2%	1	2.2%	8	17.8%	8	17.8%	27	60.0%	22	16.5%	3	2.3%	16	12.0%	36	27.1%	56	42.1%

Table S2.12

Gross motor walking

Imprint	ing centre	defect/ U.	PD/UBE3	3A Mutatio	on					Chromo	some dele	etion							
	00 Unable to 2.00 Severe 3.00 Moderate 4.00 Mild 5.00 No erform activity difficulty difficulty difficulty difficulty										able to activity	2.00 Sev		3.00 Mo		4.00 Mil difficulty		5.00 No difficulty	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
11	28.2%	4	10.3%	2	5.1%	8	20.5%	14	35.9%	50	52.1%	11	11.5%	14	14.6%	14	14.6%	7	7.3%

Table S2.13

Hold things

Imprint	ing centre	defect/ U	PD/UBE.	3A Mutatio	on					Chromo	some dele	etion							
	1.00 Unable to 2.00 Severe 3.00 Moderate 4.00 Mild 5.00 No perform activity difficulty difficulty difficulty difficulty N N N N N N N N N N N N N N N N N N N										able to activity	2.00 Sev difficulty		3.00 Mo difficulty		4.00 Mil difficulty		5.00 No difficulty	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
0	0.0%	1	2.4%	2	4.9%	8	19.5%	30	73.2%	1	0.8%	2	1.7%	4	3.3%	30	24.8%	84	69.4%

Table S2.14

Fine motor transfer

Imprin	ting centre	defect/ U	PD/UBE.	3A Mutatio	on					Chromo	some dele	etion							
	nable to n activity	2.00 Sev		3.00 Mo		4.00 Mil difficulty		5.00 No difficulty		1.00 Un perform	able to activity	2.00 Sev		3.00 Mo		4.00 Mil		5.00 No difficulty	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
0	0.0%	0	0.0%	3	8.1%	10	27.0%	24	64.9%	4	3.5%	7	6.1%	12	10.4%	37	32.2%	55	47.8%

Table S2.15

Fine motor point

Imprinti	ing centre	defect/ U	PD/UBE	3A Mutatio	on					Chromo	some dele	etion							
1.00 Un perform		2.00 Sev		3.00 Mo difficulty		4.00 Mil difficulty		5.00 No difficulty		1.00 Un perform		2.00 Sev		3.00 Mo difficulty		4.00 Mil difficulty		5.00 No difficulty	
N	perform activity difficulty difficulty difficulty difficulty N							%	N	%	N	%	N	%	N	%	N	%	
7	18.4%	3	7.9%	6	15.8%	6	15.8%	16	42.1%	46	50.0%	14	15.2%	12	13.0%	14	15.2%	6	6.5%

Adaptive development

Table S2.16

Put up hands to help dress

Imprint	ing centre	defect/ U	PD/UBE.	3A Mutatio	on					Chromo	some dele	etion							
	nable to nactivity	2.00 Sev		3.00 Mo		4.00 Mil difficulty		5.00 No difficulty		1.00 Un perform	able to activity	2.00 Sev		3.00 Mo		4.00 Mil difficulty		5.00 No difficulty	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
8	20.5%	1	2.6%	6	15.4%	5	12.8%	19	48.7%	38	39.2%	7	7.2%	14	14.4%	24	24.7%	14	14.4%

Table S2.17 Take off simple clothes

Imprint	ing centre	defect/ U	PD/UBE3	3A Mutatio	on					Chromo	some dele	etion							
	nable to nactivity	2.00 Sev		3.00 Mo		4.00 Mil difficulty		5.00 No difficulty		1.00 Un perform		2.00 Sev		3.00 Mo		4.00 Mil difficulty		5.00 No difficulty	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
9	23.1%	1	2.6%	6	15.4%	14	35.9%	9	23.1%	48	51.1%	9	9.6%	18	19.1%	7	7.4%	12	12.8%

Table S2.18 Take off complex clothes

Imprint	ing centre	defect/ U	PD/UBE3	3A Mutatio	on					Chromo	some dele	etion							
	nable to nactivity	2.00 Sev	-	3.00 Mo difficulty		4.00 Mil difficulty		5.00 No difficulty		1.00 Un perform		2.00 Sev		3.00 Mo difficulty		4.00 Mil difficulty		5.00 No difficulty	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
20	57.1%	6	17.1%	6	17.1%	2	5.7%	1	2.9%	67	84.8%	5	6.3%	4	5.1%	3	3.8%	0	0.0%

Table S2.19

Dresses self but with errors

Imprinting	g centre defe	ct/ UPD/UB	E3A Mutati	on				Chromoso	me deletion						
1.00 Unab		2.00 Sever	e difficulty	3.00 Mode difficulty	rate	5.00 No dij	ficulty	1.00 Unab perform ac		2.00 Sever	e difficulty	3.00 Mode difficulty	erate	5.00 No dij	ficulty
N	** *						%	N	%	N	%	N	%	N	%
29	82.9%	4	11.4%	2	5.7%	0	0.0%	72	96.0%	1	1.3%	2	2.7%	0	0.0%

Table S2.20

Is continent

Imprin	ting centre	defect/ U	PD/UBE.	3A Mutatio	on					Chromo	some dele	etion							
	nable to n activity	2.00 Se		3.00 Mo		4.00 Mil difficulty		,	1.00 Un perform		2.00 Sev		3.00 Mo		4.00 Mil difficulty		5.00 No difficulty		
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
25	67.6%	3	8.1%	4	10.8%	1	2.7%	4	10.8%	60	70.6%	9	10.6%	6	7.1%	8	9.4%	2	2.4%

Table S2.21
Shows toileting behaviours

Imprint	ing centre	defect/ U.	PD/UBE3	3A Mutatio	on					Chromo	some dele	etion							
	nable to nactivity	2.00 Sev difficulty		3.00 Mo difficulty		4.00 Mil difficulty		5.00 No difficulty		1.00 Un perform	able to activity	2.00 Sev		3.00 Mo difficulty		4.00 Mil difficulty		5.00 No difficulty	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
17	44.7%	8	21.1%	6	15.8%	3	7.9%	4	10.5%	59	69.4%	12	14.1%	7	8.2%	4	4.7%	3	3.5%

Table S2.23
Indicates when they want to go to the toilet

Q5_44_	2_TOILE	TINDICA'	TE_ABIL	ITY_R						Q5_44_	2_TOILE	TINDICA	TE_ABIL	ITY_R					
1.00 Un perform		2.00 Sev difficulty		3.00 Mo		4.00 Mil difficulty		5.00 No difficulty		1.00 Un perform		2.00 Sev		3.00 Mo difficulty		4.00 Mi difficulty		5.00 No difficulty	
N	perform activity difficulty difficulty difficulty difficulty difficulty N N N N N N N N N N N N N N N N N N N									N	%	N	%	N	%	N	%	N	%
17	44.7%	7	18.4%	7	18.4%	0	0.0%	7	18.4%	63	78.8%	8	10.0%	6	7.5%	1	1.3%	2	2.5%

Table S2.24
Continent of stools

.00 Imp	orinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
	1.00 Unable to 2.00 Severe 3.00 Moderate 4.00 Mild 5.00 No defficulty difficulty difficulty difficulty difficulty										able to activity	2.00 Sev		3.00 Mo		4.00 Mi difficult		5.00 No difficulty	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
22	59.5%	3	8.1%	4	10.8%	2	5.4%	6	16.2%	63	79.7%	5	6.3%	2	2.5%	6	7.6%	3	3.8%

Table S2.24

Continent of urine during day

.00 Imp	rinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Chi	romosome	e deletion							
										1.00 Un perform		2.00 Sev		3.00 Mo difficulty		4.00 Mil difficulty		5.00 No difficulty	,
N							%	N	%	N	%	N	%	N	%	N	%		
26	72.2% 0 0.0% 3 8.3% 2 5.6% 5 13.5										76.6%	6	7.8%	2	2.6%	5	6.5%	5	6.5%

Table S2.25

Hold a bottle

.00 Imp	rinting cer	ntre defect	t/ UPD/U	BE3A Mu	tation					1.00 Chi	romosome	e deletion							
	1.00 Unable to 2.00 Severe 3.00 Moderate 4.00 Mild 5.00 No perform activity difficulty difficulty difficulty N % N % N %									1.00 Un perform		2.00 Sev difficulty		3.00 Mo difficulty		4.00 Mil difficulty		5.00 No difficulty	
N				%	N	%	N	%	N	%	N	%	N	%					
0	0 0.0% 3 7.0% 7 16.3% 10 23.3% 23 5								53.5%	13	10.7%	9	7.4%	14	11.5%	31	25.4%	55	45.1%

Table S2.26

Chew all textures

.00 Imp	printing ce	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
	00 Unable to 2.00 Severe 3.00 Moderate 4.00 Mild 5.00 No erform activity difficulty difficulty difficulty difficulty									1.00 Un perform	able to activity	2.00 Sev		3.00 Mo		4.00 Mil difficulty		5.00 No difficulty	
N					%	N	%	N	%	N	%	N	%	N	%				
1	1 2.6% 2 5.1% 6 15.4% 14 35.9% 16 4							41.0%	14	14.3%	14	14.3%	22	22.4%	27	27.6%	21	21.4%	

Table S2.27

Finger feed

.00 Imp	rinting ce	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
	1.00 Unable to 2.00 Severe 3.00 Moderate 4.00 Mild 5.00 No perform activity difficulty difficulty difficulty difficulty									1.00 Un perform		2.00 Sev		3.00 Mo difficulty		4.00 Mi difficulty		5.00 No difficult	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1	2.6%	1	2.6%	5	13.2%	7	18.4%	24	63.2%	12	11.1%	7	6.5%	15	13.9%	43	39.8%	31	28.7%

Table S2.28

Feed self with fingers or utensils

.00 Imp	rinting ce	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
										1.00 Un perform		2.00 Sev		3.00 Mo		4.00 Mil difficulty		5.00 No difficulty	
N					%	N	%	N	%	N	%	N	%	N	%				
1	1 2.5% 6 15.0% 7 17.5% 10 25.0% 16 4								40.0%	15	14.3%	10	9.5%	24	22.9%	37	35.2%	19	18.1%

Table S2.29

Hold cup

.00 Imp	rinting ce	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
										1.00 Un perform		2.00 Sev		3.00 Mo difficulty		4.00 Mil difficulty		5.00 No difficulty	
N						%	N	%	N	%	N	%	N	%	N	%			
4	4 10.5% 1 2.6% 5 13.2% 11 28.9% 17 44.								44.7%	24	22.4%	14	13.1%	11	10.3%	22	20.6%	36	33.6%

Table S2.30
Indicates when full

.00 Imp	rinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
	.00 Unable to 2.00 Severe 3.00 Moderate 4.00 Mild 5.00 No perform activity difficulty di										able to activity	2.00 Sev		3.00 Mo difficulty		4.00 Mi difficult		5.00 No difficult	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
6	17.1%	2	5.7%	4	11.4%	7	20.0%	16	45.7%	9	9.0%	8	8.0%	11	11.0%	26	26.0%	46	46.0%

Behaviour

Table S2.31

Behavioural problems

Imp	orinting c	entre	defect/	UPD	VUBE3A	Muta	ition												
1	2 3 4 5 6 7 8 9 10 1 0 1 0 1 0 1 0 1 0 1 0 0 1 0 0 0 0																		
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
5	12.2%	1	2.4%	5	12.2%	4	9.8%	5	12.2%	3	7.3%	8	19.5%	4	9.8%	3	7.3%	3	7.3%

Chi	romoson	ne de	letion																
1		2		3		4		5		6		7		8		9		10	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
6	5.5%	8	7.3%	9	8.3%	9	8.3%	21	19.3%	4	3.7%	12	11.0%	10	9.2%	13	11.9%	17	15.6%

Table S2.32
Repetitive behaviours

.00 Imp	rinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	1.00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Alway time N 94 N 94 N 94 N 94 N 94 N 94							vays	1.00 Ne	ver	2.00 Rai	rely	3.00 Sor	netimes	4.00 Mo time	st of the	5.00 Alv	vays	
N	time				%	N	%	N	%	N	%	N	%	N	%				
20	52.6%	10	26.3%	3	7.9%	3	7.9%	2	5.3%	53	48.2%	18	16.4%	18	16.4%	14	12.7%	7	6.4%

Table S2.33

Focal movements

.00 Imp	rinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	1.00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Alv								vays	1.00 Ne	ver	2.00 Ra	rely	3.00 Son	netimes	4.00 Mo time	st of the	5.00 Alv	vays
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
11	11 28.9% 7 18.4% 11 28.9% 4 10.5% 5								13.2%	30	28.6%	18	17.1%	32	30.5%	15	14.3%	10	9.5%

Table S2.34
Whole body movements

.00 Imp	rinting cer	ıtre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	.00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Alw J % N % N % N % N									1.00 Ne	ver	2.00 Ra	rely	3.00 Sor	netimes	4.00 Mo time	st of the	5.00 Alv	ways
N					N	%	N	%	N	%	N	%	N	%	N	%			
24	60.0%	10	25.0%	3	7.5%	3	7.5%	0	0.0%	32	30.5%	21	20.0%	28	26.7%	20	19.0%	4	3.8%

Table S2.35

Mouthing

.00 Imp	rinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	O Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Always							vays	1.00 Ne	ver	2.00 Rai	rely	3.00 Son	netimes	4.00 Mo time	st of the	5.00 Alv	vays	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
12	29.3%	6	14.6%	8	19.5%	11	26.8%	4	9.8%	30	27.3%	9	8.2%	15	13.6%	25	22.7%	31	28.2%

Table S2.36
Agitation in new situations

.00 Imp	rinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the 5.00 Alwa time								vays	1.00 Ne	ver	2.00 Rai	rely	3.00 Sor	netimes	4.00 Mo time	st of the	5.00 Alv	vays
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
8	19.5%	10	24.4%	16	39.0%	2	4.9%	5	12.2%	28	26.2%	25	23.4%	28	26.2%	19	17.8%	7	6.5%

Table S2.37
Fear of strangers

.00 Imp	orinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	0 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Always 06 N 96 N 96 N 96 N								vays	1.00 Ne	ver	2.00 Rai	rely	3.00 Sor	netimes	4.00 Mo time	st of the	5.00 Alv	vays
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
10	25.0%	13	32.5%	12	30.0%	3	7.5%	2	5.0%	38	35.2%	36	33.3%	23	21.3%	7	6.5%	4	3.7%

Table S2.38
Will socialise with anyone

.00 Imp	rinting ce	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Alw								vays	1.00 Ne	ver	2.00 Rai	rely	3.00 Sor	netimes	4.00 Mo time	st of the	5.00 Alv	vays
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
2	4.9%	4	9.8%	10	24.4%	18	43.9%	7	17.1%	12	11.2%	17	15.9%	16	15.0%	41	38.3%	21	19.6%

Table S2.39
Fear new situations

.00 Imp	orinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosom	e deletion							
1.00 No	Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the 5.00 Alway time								ways	1.00 Ne	ver	2.00 Ra	rely	3.00 Soi	netimes	4.00 Mo		5.00 Alv	ways
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
9	22.5%	6	15.0%	20	50.0%	2	5.0%	3	7.5%	39	36.8%	30	28.3%	26	24.5%	7	6.6%	4	3.8%

Table S2.40
Anxious behaviours

.00 Imp	rinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	.00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the 5.00 Alway time								vays	1.00 Ne	ver	2.00 Rai	rely	3.00 Son	netimes	4.00 Mo time	st of the	5.00 Alv	vays
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
12	33.3%	9	25.0%	9	25.0%	3	8.3%	3	8.3%	47	47.0%	15	15.0%	25	25.0%	10	10.0%	3	3.0%

Table S2.41
Oppositional behaviours

.00 Imp	rinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	1.00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Always									1.00 Ne	ver	2.00 Rai	rely	3.00 Sor	netimes	4.00 Mo time	st of the	5.00 Alv	vays
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
8	19.5%	6	14.6%	18	43.9%	6	14.6%	3	7.3%	23	22.8%	26	25.7%	39	38.6%	12	11.9%	1	1.0%

Table S2.42

Biting

.00 Imp	orinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Always							vays	1.00 Ne	ver	2.00 Rai	rely	3.00 Son	netimes	4.00 Mo time	st of the	5.00 Alv	vays	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
15	36.6%	11	26.8%	9	22.0%	4	9.8%	2	4.9%	57	54.3%	25	23.8%	16	15.2%	6	5.7%	1	1.0%

Table S2.43

Hair pulling

.00 Imp	rinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Alway time 06 N 06 N 06 N 06 N 09							vays	1.00 Ne	ver	2.00 Rai	rely	3.00 Sor	netimes	4.00 Mo time	st of the	5.00 Alv	vays	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
11	27.5%	8	20.0%	11	27.5%	5	12.5%	5	12.5%	32	30.2%	24	22.6%	32	30.2%	12	11.3%	6	5.7%

Table S2.44

Hitting

.00 Imp	rinting ce	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Alway time						vays	1.00 Ne	ver	2.00 Rai	rely	3.00 Sor	netimes	4.00 Mo time	st of the	5.00 Alv	vays		
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
24	58.5%	3	7.3%	7	17.1%	5	12.2%	2	4.9%	73	67.6%	15	13.9%	17	15.7%	2	1.9%	1	0.9%

Table S2.45

Grabbing

.00 Impi	rinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	1.00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Alway							vays	1.00 Ne	ver	2.00 Rai	rely	3.00 Son	netimes	4.00 Mo time	st of the	5.00 Alv	ways	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
11	1 26.8% 9 22.0% 13 31.7% 7 17.1% 1									37	34.3%	22	20.4%	26	24.1%	19	17.6%	4	3.7%

Table S2.46

Hyperactivity

.00 Imp	rinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the 5.00 Alway time								vays	1.00 Ne	ver	2.00 Rai	rely	3.00 Soi	netimes	4.00 Mo time	st of the	5.00 Alv	vays
N					N	%	N	%	N	%	N	%	N	%	N	%			
5	% N % N % N % N % N								12.2%	17	15.9%	15	14.0%	32	29.9%	26	24.3%	17	15.9%

Table S2.47

Poor attention

.00 Imp	rinting ce	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	0 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time									1.00 Ne	ver	2.00 Rai	rely	3.00 Sor	netimes	4.00 Mo time	st of the	5.00 Alv	vays
N	time					N	%	N	%	N	%	N	%	N	%	N	%		
1	2.4% 5 12.2% 9 22.0% 16 39.0% 10									4	3.7%	15	14.0%	35	32.7%	36	33.6%	17	15.9%

Table S2.48

Good concentration

.00 Imp	rinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion	!						
1.00 Ne	ever	2.00 Ra	rely	3.00 Soi	metimes	4.00 Mo	st of the	5.00 Alv	ways	1.00 Ne	ver	2.00 Ra	rely	3.00 Soi	metimes	4.00 Mc		5.00 Alv	ways
N	time					N	%	N	%	N	%	N	%	N	%	N	%		
4	10.0%	1	2.5%	11	27.5%	16	40.0%	8	20.0%	13	13.7%	15	15.8%	30	31.6%	28	29.5%	9	9.5%

Table S2.49
Fascination with water

.00 Imp	rinting ce	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosom	e deletion							
1.00 No	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Always									1.00 Ne	ver	2.00 Rai	rely	3.00 Soi	netimes	4.00 Mo		5.00 Alv	ways
N	time				%	N	%	N	%	N	%	N	%	N	%				
4	N % N % N % N 4 9.8% 2 4.9% 8 19.5% 3 7.3% 24									9	8.3%	11	10.2%	13	12.0%	27	25.0%	48	44.4%

Table S2.50

Impulsivity

.00 Imp	rinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Alwa									1.00 Ne	ver	2.00 Rai	ely	3.00 Sor	netimes	4.00 Mo		5.00 Alv	vays
N	time			N	%	N	%	N	%	N	%	N	%	N	%				
17	77 43.6% 3 7.7% 9 23.1% 7 17.9% 3								7.7%	62	70.5%	6	6.8%	10	11.4%	7	8.0%	3	3.4%

Table S2.51
Smiling at nothing

.00 Imp	rinting cer	ıtre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Alwa									1.00 Ne	ver	2.00 Ra	rely	3.00 Soi	netimes	4.00 Mc		5.00 Alv	ways
N					N	%	N	%	N	%	N	%	N	%	N	%			
18										24	21.8%	26	23.6%	28	25.5%	22	20.0%	10	9.1%

Table S2.52
Appropriate smiling

.00 Imp	orinting ce	ntre defec	ct/ UPD/U	JBE3A Mu	tation					1.00 Ch	romosom	e deletion							
1.00 No	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Alwa time									1.00 Ne	ver	2.00 Ra	rely	3.00 Son	metimes	4.00 Mo		5.00 Alv	ways
N	time				N	%	N	%	N	%	N	%	N	%	N	%			
2										0	0.0%	6	5.5%	25	22.7%	45	40.9%	34	30.9%

Table S2.53
Spontaneous laughter

.00 Imp	rinting cer	ıtre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	0 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Alv								vays	1.00 Ne	ver	2.00 Rai	ely	3.00 Sor	netimes	4.00 Mo		5.00 Alv	vays
N				%	N	%	N	%	N	%	N	%	N	%					
20										30	27.3%	29	26.4%	36	32.7%	9	8.2%	6	5.5%

Table S2.54
Night time laughter

.00 Impr	inting centr	e defect	/ UPD/U	BE3A Mu	tation					1.00 CF	hromosome	deletio	n						
1.00 Nev	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 A										ever	2.00 F	Rarely	3.00 Soi	metimes	4.00 Most	of the time	5.00 A	lways
N							%	N	%	N	%	N	%	N	%	N	%		
29	70.7%	8	19.5%	2	4.9%	1	2.4%	1	2.4%	52	46.8%	26	23.4%	23	20.7%	5	4.5%	5	4.5%

Table S2.55
Appropriate laughter

.00 Imp	orinting ce	ntre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosom	e deletion							
1.00 No	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Alway time									1.00 Ne	ver	2.00 Ra	rely	3.00 Soi	netimes	4.00 Mo		5.00 Alv	ways
N						%	N	%	N	%	N	%	N	%	N	%			
2	N % N % N % N 2 4.9% 2 4.9% 3 7.3% 18 43.9% 16									3	2.7%	7	6.3%	26	23.4%	41	36.9%	34	30.6%

Table S2.56
Separation anxiety

.00 Imp	rinting cer	ıtre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	0 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Alw									1.00 Ne	ver	2.00 Rai	rely	3.00 Soi	metimes	4.00 Mo		5.00 Alv	vays
N					%	N	%	N	%	N	%	N	%	N	%				
7	N % N % N % N 7 17.1% 11 26.8% 15 36.6% 6 14.6% 2										22.0%	34	31.2%	27	24.8%	17	15.6%	7	6.4%

Table S2.57
Fear of being left with strangers

.00 Imp	rinting cer	ıtre defec	t/ UPD/U	BE3A Mu	tation					1.00 Ch	romosome	e deletion							
1.00 Ne	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Alw									1.00 Ne	ver	2.00 Rai	rely	3.00 Soi	metimes	4.00 Mo		5.00 Alv	ways
N	time					%	N	%	N	%	N	%	N	%	N	%			
13	13 34.2% 12 31.6% 7 18.4% 4 10.5% 2										62.2%	15	16.7%	13	14.4%	3	3.3%	3	3.3%

Table S2.58

Skin picking

.00 Imp	rinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation				1.00 Ch	romosome	e deletion								
1.00 Ne	1.00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Always											2.00 Rai	rely	3.00 Sor	netimes	4.00 Mo		5.00 Alv	ways
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
30	75.0%	3	7.5%	5	12.5%	1	2.5%	1	2.5%	96	88.9%	5	4.6%	6	5.6%	1	0.9%	0	0.0%

Table S2.59

Head banging

.00 Imprir	nting centre d	lefect/ UPD/	/UBE3A Mu	ıtation			1.00 Chro	mosome dele	etion						
1.00 Neve	er	2.00 Rarel	у	3.00 Some	times	5.00 Alway	1.00 Neve	r	2.00 Rarel	у	3.00 Some	etimes	5.00 Alway	VS	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
26	63.4%	7	17.1%	7	17.1%	1	2.4%	77	71.3%	14	13.0%	14	13.0%	3	2.8%

Table S2.60

Self hitting

.00 Impi	rinting cer	ntre defec	t/ UPD/U	BE3A Mu	tation				1.00 Ch	romosome	e deletion								
1.00 Ne	1.00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Always											2.00 Rai	rely	3.00 Sor	netimes	4.00 Mo		5.00 Alv	ways
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
32	80.0%	2	5.0%	5	12.5%	0	0.0%	1	2.5%	101	92.7%	2	1.8%	5	4.6%	1	0.9%	0	0.0%

Section 3. Descriptive statistics and statistical tests, age first performed activity

Table S3.1

Comparisons age first performed activity

ctivity	Non	deletion		Dele	tion		t-test	Mann Whitney U
	N	M	SD	N	M	SD		
peaking	17	2.31	0.966	31	2.19	1.106	t(1,48)=0.369, p=0.714, d=1.06	U(1, 48)=240.000, Z=-0.513, p=.608
itting	38	0.90	0.372	97	1.30	0.657	t(1,115.95)=-4.50, p<.001, d=0.59	U(1, 135)=2605.000, Z=3.763, p<.001
⁷ alking	23	2.61	1.070	38	3.15	2.636	<i>t</i> (1,61)=-0.95, <i>p</i> =0.346, <i>d</i> =2.19	U(1, 61)=511.000, Z=1.109, p=.267
old things	33	1.03	1.332	90	0.97	0.653	t(1,123)=0.32, p=0.748, d=0.88	U(1, 123)=1623.000, Z=0.799, p=.424
oint	26	2.14	1.075	29	2.51	0.883	t(1,55)=-1.38, p=0.174, d=0.98	U(1, 55)=483.000, Z=1.836, p=.066
ransfer items between hands	31	1.27	0.664	79	1.32	0.757	t(1,110)=-0.33, p=0.742, d=0.73	U(1, 110)=1250.500, Z=.174, p=.861
ut up hands to help dress	26	2.15	0.965	38	2.45	1.119	t(1,64)=-1.11, p=0.272, d=1.06	U(1, 64)=576.500, Z=1.147, p=.251
ake off simple clothes	25	2.64	0.999	30	2.37	1.020	t(1,55)=0.98, p=0.333, d=1.01	<i>U</i> (1, 55)=319.500, <i>Z</i> =953, <i>p</i> =.341
ake off complex clothes	14	3.33	1.347	10	2.95	1.301	t(1,24)=0.69, p=0.500, d=1.33	U(1, 24)=64.000, Z=360, p=.752
ress self with errors	5	3.80	0.837	2	2.00	1.414	t(1,7)=2.20, p=0.080, d=0.98	<i>U</i> (1, 7)=1.000, <i>Z</i> =1.623, <i>p</i> =.190
ontinent/ toilet trained	8	3.52	0.862	18	3.00	1.318	t(1,26)=1.01, p=0.323, d=1.20	U(1, 26)=48.500, Z=-1.321, p=.196
ndications of toileting behaviours	18	3.33	1.241	20	3.20	1.229	t(1,38)=0.32, p=0.749, d=1.23	U(1, 38)=156.500, Z=699, p=.496
ndicates when wants to go to the toilet	16	3.56	1.051	12	3.19	1.051	t(1,28)=0.92, p=0.368, d=1.05	U(1, 28)=76.000, Z=955, p=.371
ontinent of urine in day	10	3.80	1.059	12	3.35	1.352	t(1,22)=0.847, p=0.407, d=1.23	U(1, 22)=46.000, Z=948, p=.381
ontinent of stools	11	3.42	1.745	11	2.93	1.550	t(1,22)=0.70, p=0.492, d=1.650	U(1, 22)=48.500, Z=796, p=.438
old bottle	35	1.18	0.806	95	1.23	0.741	t(1,130)=-0.31, p=0.757, d=0.76	U(1, 130)=1857.500, Z=1.039, p=.299
hew all textures	26	1.80	0.785	49	1.59	0.758	t(1,75)=1.144, p=0.256, d=0.77	U(1, 75)=497.500, Z=-1.596, p=.100
inger feed	32	1.29	0.710	71	1.50	0.716	t(1,103)=-1.41, p =0.162, d =0.71	<i>U</i> (1, 103)=1343.000, <i>Z</i> =-1.512, <i>p</i> =.130
eed self with fingers or utensils	29	1.78	0.971	61	1.71	0.998	t(1,90)=0.29, p=0.775, d=0.990	U(1, 90)=838.000, Z=408, p=.683
old cup/ drink	30	1.92	1.110	59	1.79	1.039	t(1,89)=0.55, p=0.583, d=1.063	U(1, 89)=809.500, Z=662, p=.508
dicates when full	22	2.06	1.121	48	1.53	1.715	t(1,70)=1.33, p=0.189, d=1.56	U(1, 70)=302.000, Z=-2.963, p=.003

Section 4. Frequencies and age descriptives

Table S4.1
Frequency Speaking by current age

Imp	rinting centre defect/ UPD/UBE3A Mutation Never Rarely Sometimes Most of the time Always M SD N M SI														Chr	omoson	ne delet	ion											
	Never	•		Rarei	ly	S	ometin	ies	Mo	st of th	e time		Alway	'S		Nevei	r		Rarel	v	Å	Sometin	nes	Mos	st of th	he time		Alway	S
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
27	3.26	1.41	5	4.20	1.19	1	3.36		2	3.07	1.28	8	4.84	1.09	89	2.80	1.50	20	3.38	1.52	7	3.99	2.07	0			7	4.60	1.27

Table S4.2

All forms of communication by age

I	трі	rinting	sounds phrases														romosc	ome de	letion	ı										
														ord		Babbl	es		Moan	S	I	ntentio	nal	Si	ngle w	ords	2	or 3 wo	ord	
								sounds	S					phrases	S								sounds	S					phrases	S
1	V	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
																														1
2	:9	3.76	1.26	38	3.76	1.40	38	3.84	1.45	16	4.55	1.36	0			62	3.16	1.61	91	3.17	1.62	76	3.26	1.62	19	4.32	1.71	1	5.87	

Table S4.3

Most effective verbal language by age

Imp															romos	ome d	eleti	on																	
Mo																Mo	ans		Bal	bbles			ention ınds	al	Sin	igle w	ords	1 -	word rases	[phi	nger rase eech			
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	S D	Ñ	M	S D	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	S D
<i>1 1</i>	3.9 5	1.4 2	5	3.4 8	1.6 5	<i>1</i> 8	3.9 0	1.4 1	8	3.9 7	1.3 5	0			0			<i>3 4</i>	3.1 1	1.6 3	<i>1 6</i>	3.3 9	1.6 3	<i>3 5</i>	3.0 3	1.5 9	4	4.2 7	2.1 4	2	1.8 4	0.2 7	1	4.0 2	

Table S4.4

Best understanding by age

Imp	orinting	g centre	defec	t/ UPL	D/UBE3	A Mı	ıtation								Chr	omoso	me dele	etion											
Sin															Sing	gle wor	·d,	Sim	ple phi	rase	Con	ımands	s -	Con	nmand.	s - 2	Con	nman	ds 3
suc	h as no)		mands Oon't T			gle step ger sen		-	e.g Go room		step			such	h as no			imands Don't T			le step ger sen		_	e.g Go r room	_	step	•	
							Go to y m now.			g back er bottl	-											Go to y n now.			ig back er bott	-			
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
4	4.5	1.91	7	3.4	1.21	7	4.0	1.48	16	4.0	1.17	1	6.7 5		22	3.3	1.58	27	3.3	1.53	8	3.5 6	1.59	6	4.5 7	1.60	0		

Table S4.5
Use of speech by age

Imj	uses single requests Communicates regularly effectively effectively with														Chro	moson	ne delet	ion											
1.0														1.00	Doesn'	't use	2.00	0 Rarel	y	3.00) Uses :	for	4.00	0		5.00)		
	uses single requests Communicates Communicates													uses	S			gle requ	ests		mmuni			nmunic					
						reg	ularly			know		kno	wn and								regi	ılarly			ectively own peo		kno	ectively wn and nown ple	
N	N M SD N M SD					N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
24	4 3.3 1.3 7 4.1 1.6 9 4.0 1.2 0 3 4.7 2.0									2.0	10	2.9	1.5	11	3.6	1.5	6	4.4	1.1	2	3.9	2.7	2	4.0	0.4				
	5	3		5	8		9	3					4	3	9	0	9		2	9		6	4		5	1		8	7

Table S4.6
Gestures by age

Impi	1.00 Doesn't 2.00 Rarely 3.00 Uses for 4.00 5.00 communicates uses single requests Communicates to Communicate														Chro	этоѕон	ne dele	etion											
1.00	1.00 Doesn't 2.00 Rarely 3.00 Uses for 4.00 5.00 1.0													1.00	Doesn	ı't	2.00	Rarel	v	3.00	Uses f	or	4.00)		5.00	,	-	
use			uses			_	•	ests							use			uses	•			le requ	ests		ımunic			nmunic	
						regu	larly		- 00	tively i vn peop		knov	ctively vn and 10wn p	'							regu	larly		00	ctively vn peop		knov	ctively v wn and nown pe	
Age	ComM	od5	Age	ComM	od5	Age	ComM	od5	Age	ComMe	od5	Age	ComM	od5	Age	ComM	od5	Age	ComM	od5	Age	ComMo	od5	Age	ComM	od5	Age	ComMo	od5
N	M							SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD			
6	2.8 1.3 6 4.0 1.8 15 3.5 1.0 7 3.9 1.0 10 4.5 1.7											1.7	41	2.1	1.2	35	3.1	1.4	38	3.7	1.5	12	3.4	1.5	3	4.9	1.8		
	5	1		3	2		3	2		3	1		1	4		3	6		8	9		1	9		6	4		8	7

Table S4.7
Signing by age

Imp	orinting	centre	defec	t/ UPL	D/UBE3	A Mu	tation								Chro	mosom	ie delet	ion											
1.0	0 Doesr	ı't use	2.00) Rarel	y uses	sing) Uses le requ ularly		effe	nmunic ctively wn peo	with	effe kno	nmunic ctively wn and nown	with	1.00	Doesn	't use	2.00) Rarel	y uses	sing) Uses j de requ ularly		effe	nmunic ctively wn peo	with	effec	muni tively yn an yown	cates with d
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	S D	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
17	3.3 0	1.4 1	6	4.3 8	0.7 8	15	3.9 2	1.4 6	5	3.7 7	1.1 4	1	6.7 5		10 0	2.9 2	1.6 1	15	3.9 0	1.5 3	7	3.3 6	1.7 0	2	4.8 9	0.1 8	0		

Table S4.8

Visual pictures by age

Imp	rinting	centre	defect	t/ UPD	/UBE3	A Mui	tation								Chre	omoson	ne dele	etion											
1.00							Uses J le requ llarly		effec	munic tively vn peo _l	with	effec know	nmunic ctively wn and nown	with	1.00	Doesn	l't use	2.00	Rarely	uses)	sing	Uses f le requ larly		effec	nmunice stively v wn peop	with	effec knov	munio tively vn and own	cates with d
Age	ComMo	od5	Age	ComMo	od5	Age	ComM	od5	Age	ComM	od5	Age	ComMo	od5	Age	ComMo	od5	Age	ComM	od5	Age	ComMo	od5	Age	ComMo	od5	Age	Com M	lod5
N	$egin{array}{ c c c c c c c c c c c c c c c c c c c$		SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD		
17	17 3.2 1.5 10 4.0 1.6 9 5 2 9					11	3.8 5	1.3 1	4	4.8 2	1.4 7	1	5.6 2		83	2.7 8	1.5 4	27	3.4 6	1.6 0	8	4.2 2	1.0 8	3	4.8 6	2.4 7	0		

Table S4.9

Eye tracking devices by ages

Im	uses single Communicates communicates requests effectively with regularly known people known and unknown														Chro	mosom	e deletio	on											
1.0	uses single Commu requests effective										with	Com effec know	munic tively yn and own	with	1.00	Doesn't	use	2.00) Rarely	uses	sing	Uses for the Uses		effec) nmunica ctively v wn peop	vith	effec know	imunica ctively v wn and iown	
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
41	3.77	1.45	0			0			0			0			110	3.01	1.58	4	4.92	2.01	4	3.30	1.90	1	4.12		1	2.83	

Table S4.10

Low tech AAC by age

Imprintin	Doesn't use 2.00 Rarely uses 3.00 Uses for single requests regularly 4.00 Communicates effectively with known people communicates which is the communicates of the com														omoson	ne dele	tion											
1.00 Does	single requests Communicates Communicates regularly effectively with effect known people known unknown people											nmunic ctively wn and nown	with	1.00) Doesn	l't use	2.00	0 Rarely	uses .	sing	Uses f le requ ılarly		effe) nmunice ctively v wn peop	vith	effec knov	munic tively vn and iown	with
$N \mid M$	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
19 3.58	1.54	13	3.81	1.44	7	3.65	0.97	1	6.75		1	4.55		85	2.73	1.49	27	3.72	1.58	8	4.27	1.75	1	2.03		0		

Table S4.11
High tech AAC by age

Imp	rinting	ting centre defect/ UPD/UBE3A Mutation Desn't use														omosor	ne dele	etion											
1.00) Doesn	't use	2.00	Rarely	vuses	sing	le requ		Com effec	munic tively	with	Com effec knov	munice tively with the string to the string	with	1.00	Doesn	ı't use	2.00	Rarely	v uses	sing	Uses f le requ larly		effec) nmunic ctively wn peo	with	effec knov	nmunice ctively with and nown po	with
AgeComMod5			Age	ComMo	od5	Age	ComMo	od5	Age	ComM	od5	Age	ComMe	od5	Age	ComM	od5	Age	ComM	od5	Age	ComMo	od5	Age	ComM	od5	Age	ComMo	od5
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
24	3.5 7	1.4 3	5	4.0 6	1.1 2	11	4.1 6	1.6 0	0			2	3.3 5	1.6 9	88	2.9 4	1.6 2	23	3.4 9	1.6 9	12	3.6 8	1.5 5	1	2.8 3		1	3.6 9	

Gross and fine motor

Table S4.12

Gross motor sit by age

Im	perform difficulty difficulty difficulty difficulty ctivity														Chr	omoson	ne delei	tion											
to													Unabl form ac			0 Sever ficulty	·e) Moder iculty	rate) Mild iculty			No culty				
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
1	3.43		1	1.52		8	4.59	1.91	8	3.70	0.91	27	3.47	1.30	22	1.73	1.04	3	1.82	0.20	16	3.26	1.65	36	2.86	1.48	56	3.55	1.60

Table S4.13

Gross motor walking by age

Impr															Chro	mosome (deletion												
	perform activity difficulty difficulty difficulty difficulty								,		Unable to rm activi			0 Sevei iculty	re		Moder culty	ate		0 Mila iculty	!		0 No iculty	,					
N	M	SD	N	M	SD	N	M	SD	N	М	SD	N	M	S D	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
11	2.89	1.20	4	3.8 6	1.5 8	2	4.26	0.40	8	4.5 8	1.5 0	<i>1 4</i>	3. 84	1. 50	50	2.38	1.23	1 1	4.1 3	1.2 6	14	3.67	1.20	<i>1 4</i>	4.4 8	1.4 8	7	4.5 9	1.6 6

Table S4.14

Hold things by age

Imprin	Unable to 2.00 Severe 3.00 Moderate 4.00 Mild 5.00 No														Chrom	osome d	leletion												
					·e			ate			1				1.00 U perform	nable to n activit		2.00 diffic	Sever culty	e	3.00 diffic	Moder ulty	ate		Mild Culty	1	5.00 diffi	No culty	
N	M	SD	N	M	SD	N	M	SD	N	M	S D	N	M	S D	N	M	SD	N	M	SD	N	M	SD	N	M	S D	N	M	S D
0			1	5.4 6		2	1.8 8	0.5 0	8	3. 95	1. 07	30	3. 68	1. 53	1	1.53		2	1.5 4	0.8 4	4	2.9 2	1.4 2	30	2. 90	1. 38	84	3. 05	1. 62

Table S4.15

Fine motor transfer by age

Imp	printi	erform difficulty difficulty difficulty difficulty M SD N													Ch	romoso	me del	etion	ı										
to p	p perform difficulty difficulty difficulty difficulty ctivity													per	0 Unab form ivity	le to		0 Sever ficulty	·e) Mode culty	rate) Mild iculty		5.00 diffi) No culty		
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
0			0			3	2.05	0.46	10	3.58	1.70	24	3.76	1.38	4	1.69	0.82	7	2.24	1.27	12	2.52	1.60	37	3.02	1.45	55	3.22	1.66

Table S4.16

Fine motor point by age

Imprir	Unable to 2.00 Severe 3.00 Moderate 4.00 Mild 5.00 No 1														Chrom	osome a	leletion												
	perform activity difficulty				·e			ate			!					nable to n activit		2.00 diffic	Sever culty	re	3.00 diffic	Moder culty	ate) Mild culty	1	5.00 diffic		
N	M	SD	N	M	SD	N	M	SD	N	M	S D	N	M	S D	N	M	SD	N	M	SD	N	M	SD	N	M	S D	N	M	S D
7	3.24	1.81	3	3.7 5	1.3 5	6	3.5 6	1.4 1	6	3. 75	1. 24	16	3. 84	1. 51	46	2.43	1.33	14	3.7 6	1.4 2	12	3.6 1	1.5 4	14	4. 13	1. 60	6	4.2 2	1. 49

Adaptive behaviour

Table S4.17

Put up hands to help dress by age

Impi	orm activity difficulty difficulty difficulty difficulty														Chro	moson	ne dele	etion											
	1.00 Unable to 2.00 Severe 3.00 Moderate 4.00 Mild 5.00 No											Unabl orm ac		2.00 diffic	Severe culty	?	3.00 diffic	Moder culty	rate	4.00 diffic	Mild culty		5.00 diffic						
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
8	2.6	0.7 7	1	3.1 5		6	4.4 5	1.7	5	4.3 0	1.0	19	3.7 9	1.5 1	38	2.3	1.3 9	7	3.2	0.9	14	3.5 8	1.5	24	3.3 7	1.5 0	14	4.4 5	1.5

Table S4.18

Take of simple clothes by age

Imprin	ıting cen	tre defec	ct/ UP.	D/UBI	E3A M	lutation	ı								Chron	osome a	leletion												
	1.00 Unable to 2.00 Severe perform activity difficulty					3.00 diffic	Moder ulty	ate		Mild culty	!) No iculty			nable to m activit			Sever culty	re	3.00 diffic	Moder ulty	ate		Mild culty	1	5.00 diffi	No culty	
N	M	SD	N	M	SD	N	M	SD	N	M	S D	N	M	S D	N	M	SD	N	M	SD	N	M	SD	N	M	S D	N	M	S D
9	2.30	0.65	1	2.6 9		6	4.3 4	1.1 1	14	3. 74	1. 20	9	4. 79	1. 52	48	2.48	1.43	9	3.4 2	1.7 7	18	4.1 9	1.5 1	7	3. 00	1. 00	12	3. 75	1. 83

Table S4.19

Table off complex clothes by age

Imp															Chro	moson	ne dele	etion											
1.00					ate	4.00	Mild		5.00	No		1.00	Unabl	le to	2.00	Severe	?	3.00	Moder	ate	4.00	Mild		5.00	No				
perf	perform activity difficulty				diffic	culty		diffic	ulty		diffic	culty		perfo	orm ac	tivity	diffic	culty		diffic	culty		diffic	culty		diffic	ulty		
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
20	3.1	1.1	6	4.5	1.4	6	3.7	1.8	2	5.3	1.9	1	3.2		67	2.8	1.5	5	4.4	1.1	4	4.2	1.8	3	5.8	0.7	0		
	4	6		1	0		1	5		6	6		6			4	3		0	5		0	6		2	8			

Table S4.20

Dresses self but with errors by age

.00 Im	printing cer	ntre defect/	UBE3A .				1.00 C	Thromosome	e deletion														
1.00 U activity	Inable to pe y	erform		3.00 diffic	Moderate culty	2	5.00 diffi	No culty		1.00 U activit	Inable to pe y	erform	2.00 diffic	Severe culty		3.00 diffic	Moderat culty	e	5.00 diffic				
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
29	3.61	1.40	4	3.56	1.50	2	6.17	0.83	0			72	2.99	1.58	1	6.06		2	6.11	0.35	0		

Table S4.21
Is continent by age

.00	Imprint	ting cer	ıtre d	efect/ U	JPD/U	BE3A	Mutati	on							1.00) Chron	nosome	e dele	tion										
	0 Unabi form ac) Sever iculty	е) Modei iculty	rate		Mild culty			0 No iculty) Unab form ac) Severo culty	2		0 Modei iculty	rate		0 Mild iculty			0 No iculty	
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
25	3.37	1.32	3	4.98	1.86	4	3.76	1.16	1	4.62		4	5.03	1.70	60	2.74	1.55	9	4.54	1.33	6	3.88	1.09	8	4.28	1.54	2	5.44	0.60

Table S4.22
Shows toileting behaviours by age

.00	Imprin	ting cer	ıtre d	defect/	UPD/U	JBE3	A Muto	ation							1.00) Chroi	nosome	e dele	etion										
	0 Unab form ac			0 Sever	re		00 Mode ficulty	erate		0 Mild ficulty			00 No ficulty) Unab form ac			0 Sever ìculty	e		0 Mode ficulty	erate		00 Mild ficulty			00 No ficulty	
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
17	3.05	1.43	8	4.05	0.95	6	4.54	1.39	3	3.79	0.61	4	4.44	2.10	59	2.66	1.43	12	4.40	1.62	7	4.14	1.05	4	4.16	1.80	3	5.82	0.78

Table S4.23
Indicates when they want to go to the toilet by age

.00	Imprint	ting cen	tre de	efect/ U	PD/UE	<i>BE3A</i> .	Mutatio	on							1.00	Chron	nosome	dele	tion										
) Unabl form ac			Severe culty	2		Moder culty	rate		Mild culty			No culty			Unabi form ac) Severe iculty	?		Modei culty	rate		Mild culty		5.00 diffi	No culty	
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
17	3.15	1.41	7	4.60	1.38	7	3.73	0.89	0			7	4.00	1.71	63	2.85	1.57	8	3.95	1.16	6	5.55	0.74	1	4.61		2	5.44	0.60

Table S4.24

Continent of stools by age

.00	Imprin	ting cer	itre a	lefect/ l	UPD/U	BE3A	Mutat	tion							1.00) Chror	nosome	e dele	etion										
	0 Unabi form ac) Sever ìculty	e) Mode iculty	rate		0 Mild iculty) No iculty) Unab form ac			0 Sever iculty	e) Mode culty	rate		0 Mild iculty			0 No iculty	
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	\overline{M}	SD	N	M	SD	N	M	SD
22	3.40	1.33	3	5.66	0.81	4	3.13	1.25	2	4.07	0.52	6	4.04	1.90	63	2.77	1.46	5	4.62	1.67	2	5.43	1.19	6	4.74	1.03	3	5.74	0.28

Table S4.25

Continent of urine during day by age

.00	Imprini	ting cer	itre d	efect/	UPD/	/UBE	3A Mu	tation							1.00) Chron	nosome	e dele	tion										
) Unabi form ac			Seve culty	re) Mode iculty	rate		Mild culty) No iculty) Unabi form ac			0 Severe iculty	2) Modei iculty	rate		Mild iculty) No iculty	
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
26	3.40	1.32	0			3	5.59	0.91	2	3.14	0.79	5	4.36	1.93	59	2.73	1.49	6	5.01	1.17	2	4.43	0.02	5	4.42	2.11	5	5.15	0.99

Table S4.26

Hold a bottle by age

.00	Impr	inting	centi	re defec	t/UPD	/UBE	3A Mu	tation							1.00	Chron	nosome	dele	tion										
	0 Und perfor ivity			0 Sever ficulty	е		Moder culty	rate		Mild culty			No culty) Unabi form ac) Severe iculty	2) Moder culty	rate		Mild culty		5.00 diffi	No culty	
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
0			3	3.07	2.10	7	3.63	1.18	10	4.61	1.78	23	3.41	1.15	13	2.08	1.18	9	3.40	1.87	14	2.40	1.77	31	3.28	1.56	55	3.16	1.63

Table S4.27
Chew all textures by age

.001	mprint	ing ce	ntre de	fect/ U	JPD/U	BE3A	Mutati	ion							1.00	Chron	iosom	e delet	ion										
_	Unabl orm ac		2.00 diffic	Severe culty	2		Moder culty	rate	4.00 diffic	Mild culty		5.00 diffic	No culty			Unabl orm ac		2.00 diffic	Severe culty	2	3.00 diffic	Moder culty	rate	4.00 diffic	Mild culty		5.00 diffic		
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
1	1.8 0		2	6.2 2	1.0 8	6	3.0 6	1.5 7	14	3.4 9	1.1 0	16	3.7 4	1.4 9	14	1.4 7	0.4 9	14	3.6 3	1.8 1	22	2.4 0	1.3 0	27	3.3 5	1.4 7	21	4.0 3	1.4 1

Table S4.28
Finger feed by age

.00	Imprin	iting c	entr	e defec	t/ UPI	D/UI	BE3A N	Iutatio	n						1.00	Chron	nosome	e del	etion										
to	00 Unab perform ivity			0 Sever ficulty	re		0 Mode ficulty	erate		0 Mild ficulty) No iculty) Unabi form ac			00 Sever ficulty	re) Mode iculty	rate) Mild iculty) No iculty	
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
1	3.43		1	1.91		5	4.26	2.20	7	3.79	0.81	24	3.65	1.48	12	1.32	0.31	7	2.66	1.05	15	2.98	1.17	43	2.89	1.40	31	3.69	1.66

Table S4.29

Feed self with fingers or utensils by age

.00) Imprin	iting c	centr	e defec	t/ UPD	/UBI	E3A Mı	utation							1.00	Chron	nosom	e dele	tion										
to	00 Unab perform tivity			0 Sever ficulty	·e		0 Mode ficulty	erate		Mild culty			No culty			Unabl erform vity		.00 Se ifficul			3.00 M difficul	oderate ty		.00 M ifficul		5.	.00 No	o diffici	ulty
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
1	3.43		6	3.80	1.97	7	3.40	1.41	10	3.70	1.11	16	3.71	1.64	15	1.78	0.73	10	3.54	1.5.	3 24	2.47	1.47	37	3.35	1.51	19	3.71	1.54

Table S4.30 Hold cup by age

.00) Imprin	nting ce	entre	defect/	UPD	/UBI	E3A Mı	utation							1.00	Chron	nosome	e dele	etion										
pe	00 Unab rform tivity	ble to		00 Sever ficulty	re		0 Mode ficulty	erate) Mild iculty) No iculty			Unabi form ac) Severo iculty	е) Model iculty	rate) Mild iculty) No iculty	
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
4	4.61	2.06	1	1.80		5	3.47	1.08	11	3.89	1.47	17	3.56	1.40	24	1.96	1.03	14	3.16	1.55	11	3.37	1.85	22	3.67	1.57	36	3.27	1.56

Table S4.31
Indicates when full by age

.00	Imprin	iting ce	ntre	defect/	UPD/	UBE.	3A Mut	ation							1.0	0 Chro	mosom	e de	letion										
per	0 Unab form	ole to		00 Sever ficulty	re		0 Mode ficulty	erate		0 Mild ficulty) No iculty		per	0 Unal form	ole to		00 Sever ficulty	re) Model iculty	rate) Mild culty			0 No ìculty	
acı	tivity										1		асі	ivity			1												
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
6	3.84	1.75	2	3.54	1.85	4	3.18	1.36	7	3.22	1.22	16	4.13	1.54	9	2.75	1.55	8	3.06	1.64	11	2.78	1.54	26	3.05	1.64	46	3.17	1.64

Behaviour

Table S4.32
Behavioural problems by age

.00	Imprint	ting cer	ıtre de	efect/ U	IPD/U	JBE3A	Muta	tion																					
1			2			3			4			5			6			7			8			9			10		
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
5	3.0 8	1.6 9	1	4.7 6		5	4.6 8	1.5 1	4	4.1 2	1.9 0	5	3.6 9	1.0 6	3	3.3 9	1.2 9	8	3.7 0	1.6 5	4	3.6 2	1.6 8	3	2.4 5	0.8 3	3	3.0 7	0.7 2

1.0) Chron	nosom	e dele	tion																									
1			2			3			4			5			6			7			8			9			10		
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
6	3.7 7	2.2 3	8	3.6 0	0.9 1	9	3.7 6	1.9 4	9	3.0 9	1.5 7	21	2.1 4	1.0 0	4	3.7 5	1.7 3	12	3.2 7	1.0 2	10	2.7 1	1.7 6	13	3.2 2	1.8 8	17	2.4 8	1.4 9

Table S4.33
Repetitive behaviours by age

.00	Imprin	ting cer	ıtre d	lefect/ (UPD/U	BE3A	Mutai	tion							1.00	Chro.	mosome	e dele	tion										
1.0	0 Nevei	•	2.00) Rarel	'y	3.00) Some	times	4.00	Most	of the	5.00) Alwa	vs	1.00) Neve	•	2.00) Rarel	'y	3.00) Some	times	4.00) Most	of the	5.00	0 Alway	VS.
									time	!														time	2				
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
20	3.3	1.41	10	3.2	1.04	3	4.8	1.58	3	4.0	1.50	2	4.4	3.66	53	2.8	1.47	18	3.3	2.04	18	2.9	1.20	14	3.3	1.72	7	2.3	1.26
	3			6			4			6			0			1			6			9			5			6	

Table S4.34

Focal movements by age

.00	Imprin	ting cer	ntre d	lefect/ (UPD/U	BE3A	1 Muta	tion							1.00	Chro	mosome	e dele	tion										
1.00	Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Always														1.00) Nevei	r	2.00) Rarel	y	3.00) Some	times	4.00 time		of the	5.00) Alway	'S
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
11	3.5 9	1.69	7	3.1 0	0.75	11	3.6 8	1.37	4	4.8 1	0.22	5	3.6 0	2.33	30	2.5 6	1.14	18	3.0 8	1.58	32	3.1 6	1.56	15	3.5 7	1.87	10	3.0 8	1.98

Table S4.35
Whole body movements by age

.00	Imprin	ting cer	ıtre d	efect/ l	UPD/UI	BE3A	Mutat	ion							1.00	Chroi	nosome	e dele	tion										
1.0	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the 5.00 Always													ays	1.00) Never	^	2.00) Rarel	v	3.00	Some	times	4.00) Most	of the	5.00) Alway	'S
	time																							time	?				
Age	ComM	od5	Age	ComM	od5	Age	ComM	od5	Age	ComM	od5	Age	Com N	Nod5	Age	ComM	od5	Age	ComM	od5	Age	ComM	od5	Age	ComM	lod5	Age	ComM	od5
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
24	3.4	1.32	10	3.9	1.46	3	4.9	2.00	3	2.8	1.68	0			32	2.6	1.47	21	3.4	1.44	28	3.4	1.70	20	2.5	1.30	4	3.4	2.28
	9			8			8			7						2			1			5			8			4	

Table S4.36

Mouthing by age

.00	Imprin	ting cer	ntre d	lefect/ (UPD/U	BE3A	Mutai	tion							1.00	Chro	mosome	e dele	etion										
1.0	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the 5.00 Always													2S	1.00) Nevei	•	2.00) Rarel	ly	3.00) Some	times	4.00) Most	of the	5.00) Alway	VS
									time	?														time	?				
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
12	3.7	1.31	6	3.6	1.92	8	3.9	2.06	11	3.1	1.00	4	4.2	0.86	30	2.3	1.22	9	2.7	1.69	15	3.3	1.80	25	3.2	1.64	31	3.1	1.55
	3			5			1			5			1			3			6			9			0			3	

Table S4.37

Agitation in new situations by age

.00	Imprin	ting cer	ntre a	lefect/	UPD/U	BE3A	Muta	tion							1.00) Chro	mosome	e dele	tion										
1.00) Nevei	,	2.00) Rare	ly	3.00) Some	times	4.00 time		of the	5.00	0 Alwa	vs	1.00) Nevei	,	2.00) Rarel	y	3.00) Some	times	4.00 time		of the	5.00	0 Alway	VS
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
8	3.0 7	1.22	10	4.1 2	1.60	16	3.3 6	1.15	2	3.9 0	2.21	5	4.3 9	2.04	28	2.8 6	1.44	25	3.0 4	1.51	28	2.8 7	1.53	19	2.8 4	1.57	7	3.9 2	2.31

Table S4.38
Fear of strangers by age

.00) Imprin	ting cer	ntre d	lefect/\	UPD/U	BE3A	Mutai	tion							1.00) Chro	mosome	e dele	tion										
1.0	1.00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the 5.00 Always													1.00) Nevei	•	2.00	Rarel	y	3.00) Some	times	4.00) Most	of the	5.00) Alway	'S	
									time															time	2				
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
10	3.5	1.77	13	3.8	1.77	12	3.4	1.15	3	3.6	0.39	2	4.1	1.02	38	2.9	1.56	36	3.6	1.58	23	2.4	1.20	7	2.0	1.38	4	1.8	0.71
	1			8			4			0			5			3			9			6			8			1	

Table S4.39

Will socialise with anyone by age

.00	Imprin	iting cei	ntre d	efect/ (UPD/U	BE3A	Muta	tion							1.00	Chro	mosome	e dele	tion										
1.0	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Always													1.00) Nevei	,	2.00) Rarel	y	3.00	Some	times	4.00 time		of the	5.00) Alway	'S	
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
2	4.7 1	0.23	4	3.4 5	0.91	10	3.1 7	1.12	18	3.7 7	1.36	7	3.7 8	2.35	12	2.9 9	1.43	17	2.6 3	1.69	16	2.3 4	1.02	41	3.3 2	1.52	21	3.1 9	1.76

Table S4.40

Fear new situations by age

.00	Imprin	ting cer	ntre a	lefect/	UPD/U	BE3A	1 Muta	tion							1.00	Chro	mosome	e dele	tion										
1.0	0 Nevei	time) Nevei	r	2.00) Rarel	ly .	3.00) Some	times	4.00 time		of the	5.00) Alway	VS
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
9	3.7 6	1.86	6	3.3 6	1.92	20	3.5 9	1.23	2	3.4 1	0.03	3	4.9 5	0.15	39	2.9 3	1.44	30	3.5 3	1.72	26	2.7 4	1.51	7	2.5 9	1.36	4	2.6 8	1.39

Table S4.41
Anxious behaviours by age

.00) Imprin	ting cer	ntre a	lefect/\	UPD/U	BE3A	Muta	tion							1.00) Chro	mosome	e dele	tion										
1.0	1.00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the 5.00 Always													1.00) Never	r	2.00) Rarel	y	3.00) Some	times	4.00) Most	of the	5.00) Alway	'S	
									time	?														time	2				
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
12	3.7	1.38	9	3.7	1.66	9	3.3	1.20	3	2.5	0.83	3	5.6	1.15	47	2.8	1.47	15	3.3	1.74	25	3.2	1.62	10	2.7	1.42	3	2.8	1.65
	6			1			0			1			6			8			1			2			6			3	

Table S4.42
Oppositional behaviours by age

.00	Imprin	ting cer	ntre d	lefect/	UPD/U	BE3A	Mutai	tion							1.00	Chro	mosome	e dele	tion										
1.00	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Always														1.00) Nevei	,	2.00) Rarel	y	3.00	Some	times	4.00 time		of the	5.00) Alway	'S
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
8	2.6 6	0.83	6	4.5 1	0.85	18	3.6 6	1.53	6	4.5 4	1.59	3	2.6 4	1.17	23	2.0 1	0.84	26	3.0 3	1.37	39	3.2 4	1.64	12	4.4 4	1.60	1	2.9 9	

Table S4.43
Biting by age

.00	Imprin	ting cer	ntre a	lefect/ (UPD/U	BE3A	Mutai	tion							1.00	Chro	mosome	e dele	tion										
1.00	Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Always														1.00) Nevei	r	2.00) Rarel	'y	3.00) Some	times	4.00 time		of the	5.00	0 Alway	VS
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
15	3.3 7	1.48	11	3.7 6	1.57	9	4.0 6	1.41	4	2.7 8	1.12	2	4.9 3	0.07	57	2.4 7	1.41	25	3.6 5	1.44	16	3.8 6	1.73	6	3.0 3	1.45	1	1.3 3	

Table S4.44
Hair pulling by age

.0) Imprin	ting ce	ntre a	lefect/ (UPD/U	BE3A	Muta	tion							1.00	Chro	mosome	e dele	tion										
1.0	00 Neve	r	2.00) Rarel	y	3.00) Some	times	4.00) Most	of the	5.00	9 Alwaj	VS	1.00) Neve	r	2.00) Rarel	ly .	3.00) Some	times	4.00) Most	of the	5.00) Alway)S
									time	?														time	?				
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
11	3.7	1.40	8	3.3	1.58	11	3.6	1.46	5	3.0	1.15	5	4.6	1.60	32	2.1	1.39	24	3.2	1.60	32	3.6	1.45	12	3.1	1.48	6	3.2	1.40
	8			3			6			2			5			6			0			1			8			5	

Table S4.45
Hitting by age

.00	Imprin	ting cer	ntre d	lefect/ l	UPD/U	BE3A	Mutai	tion							1.00	Chroi	nosome	e dele	tion										
1.0	0 Nevei	r	2.00) Rarel	y	3.00) Some	times	4.00	Most	of the	5.00) Alway	VS	1.00) Never		2.00) Rarel	'y	3.00) Some	times	4.00) Most	of the	5.00	0 Alway	VS
	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the 5.00 Always time																							time	?				
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
24	3.2	1.29	3	2.7	0.53	7	4.7	1.18	5	4.0	2.05	2	4.9	0.07	73	2.4	1.19	15	4.3	1.83	17	4.0	1.42	2	4.5	0.63	1	1.3	
	3			6			6			8			3			4			1			6			7			3	

Table S4.46

Grabbing by age

.00) Impri	nting ce	ntre a	lefect/ (UPD/U	BE3A	Muta	tion							1.00	Chro	mosome	e dele	tion										
1.0	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the 5.00 Always time														1.00) Neve	r	2.00) Rarel	'y	3.00) Some	times			of the	5.00) Alway	VS
									time	?														time	?				
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
11	3.1 3	1.25	9	3.7 1	1.62	13	3.9 0	1.61	7	3.6 7	1.32	1	4.9 8		37	2.2 1	1.09	22	3.7 8	1.86	26	3.3 8	1.43	19	3.1 9	1.41	4	2.2	1.89

Table S4.47
Hyperactivity by age

.00	Imprin	iting cer	ntre d	lefect/	UPD/U	BE3A	Mutai	tion							1.00) Chro	mosome	e dele	tion										
1.00) Neve	r	2.00) Rarei	ly	3.00) Some	times	4.00 time		of the	5.00) Alwaj	ys	1.00) Nevei	r	2.00) Rarel	у	3.00	Some	times	4.00 time		of the	5.00	Alway	lS
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
5	3.5 1	1.08	11	3.6 9	1.17	11	3.4 1	1.50	9	3.6 4	1.61	5	4.1 7	2.24	17	2.2	1.55	15	2.6	1.45	32	3.1 5	1.59	26	3.5 4	1.65	17	2.7 1	1.21

Table S4.48

Poor attention by age

.00	Imprin	ting cer	ntre d	efect/ l	JPD/U	BE3A	Mutai	tion							1.00	Chro	mosome	e dele	tion										
1.0	0 Nevei	r	2.00	Rarel	y	3.00) Some	times	4.00) Most	of the	5.00) Alway	VS	1.00) Nevei	r	2.00) Rarel	'y	3.00) Some	times	4.00) Most	of the	5.00) Alway	'S
	00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Always																							time	?				
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
1	2.4		5	4.3	1.55	9	3.8	1.16	16	3.4	1.29	10	3.5	1.93	4	2.5	2.47	15	2.6	1.32	35	2.9	1.61	36	2.8	1.41	17	3.5	1.79
	0			0			7			3			8			7			6			4			9			1	

Table S4.49

Good concentration by age

.0	0 Impr	inting	z cen	tre de	efect/ U	JPD/U	JBE3.	A Muta	ition							1.00	Chron	nosome	e delei	tion										
1.0	00 Nev	0 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Always														1.00	Never	•	2.00	Rarely	Y	3.00	Some	times	4.00 time		of the	5.00) Alway	/S
N	M	Si	D	N	M	S D	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
4	3.2 5	2. 0	.5	1	2.9 2		11	3.0 7	0.8 5	16	3.7 7	1.3 7	8	4.7 2	1.2 5	13	3.5 3	1.6 9	15	3.1 8	1.5 6	30	3.0 5	1.5 0	28	2.8 9	1.5 0	9	3.6 2	1.9 7

Table S4.50

Fascination with water by age

.00	Imprin	ting cer	ntre d	lefect/ U	JPD/U	BE3A	Mutai	tion							1.00	Chroi	nosome	e dele	tion										
1.0	0 Never	•	2.00) Rarely	у	3.00) Some	times	4.00	Most	of the	5.00	Alwa	ys	1.00) Neve	•	2.00	Rarel	y	3.00	Some	times	4.00	Most	of the	5.00	Alwa	ys
									time	;														time	•				
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
4	3.0	1.3	2	3.6	1.8	8	3.4	1.6	3	4.3	1.7	24	3.7	1.4	9	1.5	0.9	11	2.4	1.0	13	2.7	1.5	27	2.5	1.4	48	3.5	1.5
	6	5		9	3		8	6		5	5		0	2		7	5		6	4		8	8		4	8		8	4

Table S4.51
Impulsivity by age

.00	Imprini	ting cer	ntre d	lefect/ l	JPD/U	BE3A	Mutat	ion							1.00	Chroi	nosom	e dele	tion										
1.00	.00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Always													1.00	Neve	ſ	2.00	Rarely	У	3.00	Some	times	4.00 time		of the	5.00	Alway	/S	
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
17	3.3 6	1.3 1	3	2.2 9	0.6 6	9	3.9 6	1.3 5	7	4.8 8	1.1 9	3	4.0 9	1.6 6	62	2.6 5	1.3 9	6	4.3 0	1.3 0	10	4.0 1	1.6 7	7	2.6 1	1.6 5	3	3.9 8	0.9 7

Table S4.52
Smiling at nothing by age

.00	Imprini	ting cer	ntre d	lefect/ l	JPD/U	BE3A	Mutat	ion							1.00	Chroi	nosom	e dele	tion										
1.00) Never	•	2.00) Rarely	у	3.00) Some	times	4.00 time		of the	5.00	Alwa	ys	1.00) Neve	ſ	2.00	Rarely	У	3.00	Some	times	4.00 time		of the	5.00	Alway	/S
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
18	3.4 8	1.1 8	9	4.1 0	1.7 1	7	3.2 2	1.0 9	4	3.3 7	1.7 5	3	4.5 9	2.6 1	24	2.5 7	1.5 6	26	2.7 7	1.5 6	28	3.2 0	1.7 9	22	3.1 8	1.4 5	10	2.8 1	1.0 9

Table S4.53
Appropriate smiling by age

.00	Imprin	ting cer	itre de	efect/ U	IPD/U	BE3A	1 Mutai	tion							1.00	Chro	moso	me de	letion										
1.0	0 Never	ŗ	2.00	Rarely	y	3.00	Some	times	4.00	Most	of the	5.00	Alway	/S	1.00	Neve	er	2.00	Rarely	7	3.00	Some	times	4.00) Most	of the	5.00	Alway	/S
	time																							time	•				
N	M	SD	N	M	S	N	M	SD	N	M	SD	N	M	SD	N	M	S	N	M	SD	N	M	SD	N	M	SD	N	M	SD
					D												D												
2	3.8	1.1	1	2.4		3	3.0	1.6	12	3.7	1.0	23	3.7	1.6	0			6	3.2	1.9	25	3.1	1.4	45	3.0	1.6	34	2.7	1.5
	0	5		0			0	1		7	9		0	6					2	5		0	8		0	4		0	1

Table S4.54

Spontaneous laughter by age

.00) Imprini	ting cen	tre a	lefect/ l	JPD/U	BE3.	A Muta	tion							1.00	Chron	nosome	delei	tion										
1.0	00 Never	•	2.0	0 Rarel	ly	3.0	0 Some	etimes		0 Most time	of	5.0	0 Alwa	ıys	1.00) Never		2.00) Rarely	7	3.00) Somet	times	_	00 Most time	of	5.0	00 Alwa	.ys
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
20	3.46	1.37	6	4.01	1.56	7	3.47	1.17	4	3.27	1.64	4	4.66	2.13	30	2.64	1.44	29	2.52	1.66	36	3.29	1.41	9	3.48	1.82	6	3.19	1.82

Table S4.55

Night time laughter by age

.00	Imprin	ting cer	itre de	efect/ U	JPD/U	BE3A	Mutati	ion							1.00	Chron	nosome	e delei	ion										
1.00	0 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the time 5.00 Always														1.00	Never		2.00	Rarely	7	3.00	Some	times	4.00 time		of the	5.00) Alway	/S
N	M	SD	N	M	SD	N	M	SD	N	M	S D	N	M	S D	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
29	3.6 3	1.4 6	8	4.2 7	1.3 7	2	2.3 4	1.1 5	1	3.4 3		1	1.8 2		52	2.6 7	1.4 6	26	3.4 1	1.9 5	23	2.8 9	1.1 7	5	2.5 3	1.5 7	5	3.8 8	1.5 9

Table S4.56

Appropriate laughter by age

.0	0 Imprii	iting ce	ntre d	lefect/ l	JPD/U	BE3A	Mutat	tion							1.00	Chroi	nosome	e dele	tion										
1.	1.00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the 5.00 Always											1.00) Neve	•	2.00	Rarel	У	3.00	Some	times	4.00) Most	of the	5.00	Alway	ys			
									time	;														time	•				
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
2	3.3	1.7	2	2.1	0.3	3	4.7	2.3	18	3.8	1.3	16	3.4	1.4	3	3.3	1.3	7	3.2	1.8	26	2.9	1.5	41	3.0	1.6	34	2.6	1.4
	9	4		5	5		3	8		2	1		5	4		1	5		1	0		7	4		8	6		5	6

Table S4.57
Separation anxiety by age

.0) Imprin	ting ce	ntre d	lefect/ l	JPD/U	BE3A	Mutat	ion							1.00	Chror	nosom	e dele	tion										
1.	1.00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of the 5.00 Always 1											1.00	Neve	:	2.00	Rarel	y	3.00) Some	times	4.00) Most	of the	5.00) Alway	ys .			
	time																						time	e					
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
7	2.6	1.1	11	3.5	1.3	15	3.8	1.4	6	4.3	1.8	2	3.5	1.8	24	2.7	1.8	34	3.0	1.2	27	3.4	1.7	17	2.7	1.4	7	2.1	0.9
	8	5		8	3		7	0		2	6		9	2		9	3		5	5		2	7		4	1		0	1

Table S4.58

Fear of being left with strangers by age

.00																Chroi	nosom	e dele	tion										
1.00) Never	•	2.00	Rarel	у	3.00) Some	times	4.00 time		of the	5.00) Alwa	ys	1.00) Neve	ſ	2.00	Rarel	у	3.00	Some	times	4.00 time		of the	5.00) Alway	/S
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
13	4.0 0	1.5 5	12	3.7 0	1.8 3	7	2.9 4	0.7 2	4	4.0 0	0.9 6	2	2.8 7	0.7 9	56	3.1 4	1.6 7	15	2.6 2	0.9 9	13	<i>4.1</i> 8	1.5 1	3	2.8 7	1.7 2	3	1.7 3	0.7 8

Table S4.59
Skin picking by age

.00	Imprint	ing cer	itre de	efect/ U	PD/UE	<i>BE3A I</i>	Mutatic	n							1.00	Chron	nosome	delet	ion										
1.00	1.00 Never 2.00 Rarely 3.00 Sometimes 4.00 Most of 5.00 Always												1.00	Never	,	2.00) Rarely	·	3.00	Some	times		Most o	of	5.00	Alwa	iys		
	the time																				the t	ime							
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
30	3.4 5	1.3 9	3	4.4 0	0.9 3	5	5.0 1	1.3 4	1	3.9 8		1	1.8 2		96	2.9 6	1.6 3	5	2.9 8	0.8 9	6	2.8 3	0.6 3	1	4.6 1		0		

Table S4.60
Head banging by age

.00 In	printing	centre d	lefect/ U	JPD/UB.	E3A Mu	tation						1.00 C	Chromos	ome del	etion								
1.00 N	Vever		2.00 R	Rarely		3.00 S	ometime	es	5.00 A	lways		1.00 N	lever		2.00 R	arely		3.00 S	ometime	es	5.00 A	lways	
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
26	3.65	1.46	7	3.10	1.16	7	4.43	1.47	1	1.82		77	2.91	1.59	14	3.45	1.60	14	2.87	1.42	3	2.86	1.42

Table S4.61
Self hitting by age

.00	Imprint	ting cen	tre de	efect/ U	PD/UE	BE3A I	Mutatio	n							1.00	Chrom	osome	deleti	on										
1.00	Never	•	2.00) Rarely	I	3.00	Some	times	4.00 the t	Most ime	of	5.00	Alway	ys	1.00	Never		2.00	Rarely	7	3.00	Some	times	4.00 the t	Most dime	of	5.00	Alwa	iys
N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD	N	M	SD
32	3.4 7	1.4 3	2	3.8 4	0.1 9	5	4.8 0	1.4 0	0			1	1.8 2		10 1	2.9 5	1.5 9	2	2.7 8	0.9 3	5	3.1 5	1.3 8	1	2.9 6		0		