



Whole Genome Sequencing of a Vietnamese Family from a Dioxin Contamination Hotspot Reveals Novel Variants in the Son with Undiagnosed Intellectual Disability

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Table S1. List of de novo SNVs in the proband.

Chr	Position (Hg19)	Ref	Genotype	CpG	Transversion/Transition	Gene_region	Gene_symbol
8	38953881	T	AA	0	Transversion	intronic	ADAM9
5	159360230	G	AG	0	Transition	intronic	ADRA1B
15	44621257	G	AG	0	Transition	intronic	CASC4
4	91413165	G	AG	1	Transition	intronic	CCSER1
19	52826007	C	CT	0	Transition	intronic	ZNF480
5	122723763	T	CC	0	Transition	intronic	CEP120
16	12783269	T	GT	0	Transversion	intronic	CPPED1
21	40182023	C	CT	0	Transition	exonic	ETS2
21	33805918	C	AC	0	Transversion	intronic	EVA1C
15	29592703	T	CT	0	Transition	intronic	FAM189A1
9	128026834	A	AG	0	Transition	intronic	GAPVD1
19	19602403	A	AG	0	Transition	intronic	GATAD2A
1	210753987	T	CT	0	Transition	intronic	HHAT
16	25939395	C	CT	1	Transition	intronic	HS3ST4
7	110574326	A	AG	0	Transition	intronic	IMMP2L
2	48928665	T	GT	0	Transversion	intronic	LHCGR
12	25642875	C	CG	0	Transversion	intronic	LMNTD1
2	102348244	G	GT	0	Transversion	intronic	MAP4K4
6	150474569	C	CT	1	Transition	intronic	PPP1R14C
7	83233199	G	GT	0	Transversion	intronic	SEMA3E
9	38011043	C	CT	1	Transition	intronic	SHB
19	52826007	C	CT	1	Transition	exonic	ZNF480
3	66152636	C	CT	1	Transition	intronic	SLC25A26
6	155492346	C	CG	0	Transversion	intronic	TIAM2
14	76286442	G	GT	1	Transversion	exonic	TTLL5
11	122585803	A	AC	0	Transversion	intronic	UBASH3B
19	17372237	C	CT	1	Transition	intronic	USHBP1
1	108386014	T	AT	0	Transversion	intronic	VAV3
1	182028259	C	CT	1	Transition	intronic	ZNF648
1	23538156	T	AT	0	Transversion		

1	46249721	T	GT	0	Transversion
2	44237622	C	CG	0	Transversion
2	51453535	T	AT	0	Transversion
2	139600915	T	CT	0	Transition
2	169306454	C	CT	0	Transition
2	199164696	G	AG	0	Transition
3	5702434	A	AG	0	Transition
3	33273790	G	AG	1	Transition
3	59078789	A	AG	0	Transition
3	89060999	A	AC	0	Transversion
3	89061001	G	AG	0	Transition
3	89544369	T	CC	0	Transition
3	115257101	G	AG	0	Transition
3	139464120	C	AC	0	Transversion
3	162994573	C	AC	0	Transversion
4	8657803	G	AG	1	Transition
4	116826844	G	GT	0	Transversion
5	8031502	G	AG	0	Transition
5	71837052	G	AG	0	Transition
5	143972308	C	CT	0	Transition
5	151582484	T	CT	0	Transition
5	154481138	C	AC	0	Transversion
5	154481139	T	GT	0	Transversion
6	14683612	A	AT	0	Transversion
6	84207537	A	AG	0	Transition
6	120503506	G	AG	0	Transition
6	158122671	G	AG	1	Transition
7	14111847	T	CT	0	Transition
7	17545963	C	CT	1	Transition
7	38403767	A	AG	0	Transition
7	54666477	A	AC	0	Transversion
7	151026041	G	CG	0	Transversion
8	122004586	T	CT	0	Transition
8	130091717	G	AG	0	Transition

9	138428950	C	CT	0	Transition
10	16448221	C	CT	1	Transition
10	27233572	G	AG	1	Transition
10	59937141	T	CT	0	Transition
10	80693834	C	CT	1	Transition
11	57992413	A	AG	0	Transition
12	27005234	A	AT	0	Transversion
12	34491009	C	CT	1	Transition
13	87921799	T	CT	0	Transition
13	90117960	A	AG	0	Transition
14	19823638	C	CG	0	Transversion
14	82359410	A	AG	0	Transition
14	95196582	G	AG	0	Transition
14	104872678	C	CT	0	Transition
14	106267695	A	AG	0	Transition
14	106267696	C	AC	0	Transversion
15	78199077	G	GT	0	Transversion
15	78199078	G	AG	0	Transition
16	33934955	G	AG	1	Transition
17	4064193	C	CT	0	Transition
17	18551512	C	AC	0	Transversion
17	29072909	C	CT	0	Transition
17	33546294	G	GT	0	Transversion
17	33546295	C	CT	0	Transition
17	46718792	C	AC	0	Transversion
19	39733123	C	CT	0	Transition
22	17366628	A	AG	0	Transition
X	22672879	C	TT	0	Transition
X	111721362	A	AT	0	Transversion
X	111721363	A	AG	0	Transition