

Significant variants

Gene: PRX


Variant information:

Location	chr19
Disease mode of inheritance	recessive
Reference allele	G
Alternate allele	A
CSN	ENST00000324001.7
Consequence	stop gained
dbSNP ID	rs104894714
Type	snp
Qual	1933.95
SIFT	
REVEL	
HGVSc	ENST00000324001.7:c.2857C>T
HGVSp	ENSP00000326018.6:p.Arg953Ter
Gnomad allele frequency	3.183e-05
ExAC allele frequency	.
Impact	high

Notes:

asdf

Variant Summaries:

	Proband	HOM	<div><div></div></div>	41 of 43
	Mother	HET	<div><div></div><div></div></div>	27 of 47
	Father	HET	<div><div></div><div></div></div>	19 of 35

Unknow significance variants

Gene: APOPT1

Variant information:

Location	chr14
Disease mode of inheritance	de novo
Reference allele	G
Alternate allele	A
CSN	ENST00000409074.2
Consequence	splice region variant, intron variant
dbSNP ID	rs114895750
Type	snp
Qual	670.36
SIFT	
REVEL	
HGVSc	ENST00000409074.2:c.515+7G>A
HGVSp	

Gnomad allele frequency	3.312e-05
ExAC allele frequency	3.3e-05
Impact	low

Notes: no note is added

Variant Summaries:

A

Proband

HET

30 of 60

Not significant variants

Gene: SLC9B1P1

Variant information:

Location	chrY
Disease mode of inheritance	recessive
Reference allele	C
Alternate allele	T
CSN	ENST00000331172.6
Consequence	splice region variant, intron variant
dbSNP ID	rs763588005
Type	snp
Qual	436.224
SIFT	
REVEL	
HGVSc	

HGVSp	
Gnomad allele frequency	0
ExAC allele frequency	.
Impact	low

Notes: no note is added

Poor quality variants

Gene: ASB12

Variant information:

Location	chrX
Disease mode of inheritance	de novo
Reference allele	C
Alternate allele	T
CSN	ENST00000362002.2
Consequence	missense variant
dbSNP ID	rs748815216
Type	snp
Qual	178.625
SIFT	tolerated
REVEL	0.030
HGVSc	ENST00000362002.2:c.862G>A
HGVSp	ENSP00000355195.2:p.Val288Ile

Gnomad allele frequency	3.935e-05
ExAC allele frequency	4.9e-05
Impact	moderate
Impact	

Notes: no note is added

Disclaimers

Genetic testing information has caveats and should not be considered a definitive diagnosis.

References/Methodology

DNA sequencing was performed in accordance with established Utah Genome Project (UGP) methodologies including sample preparation, sequencing and data analysis.

Genes

Phenotypes searched	Genes (100)
GTR: Dejerine-Sottas disease	MPZ , EGR2 , PMP22 , PRX , GDAP1 , FGD4 , DNM2 , HSPB1 , FIG4 , DYNC1H1 , NEFL , MFN2 , LMNA , MTMR2 , NDRG1 , SH3TC2 , SBF2 , RAB7A , LITAF , HSPB8 , TRPV4 , MED25 , LRSAM1 , BSCL2 , SBF1 , SPG11 , HK1 , PEX7 , PHYH , SPAST , GAN , GJB1 , AARS1 , GARS1 , GNB4 , YARS1 , AIFM1 , COX6A1 ,
Phenolyzer: dejerine sottas	

PRPS1 , PDK3 , DHTKD1 , PLEKHG5 , KARS1 , KIF1B , TRIM2 , INF2 , C12orf65 , ATP1A1 , HADHB , IGHMBP2 , TFG , GLA , HINT1 , DNAJB2 , MARS1 , HARS1 , KIF5A , TTR , CTDP1 , FBLN5 , SPTLC1 , MORC2 , DNMT1 , HOXD10 , SCN9A , SPTLC2 , SLC12A6 , ATL1 , REEP1 , TSEN54 , ALMS1 , RARS2 , FA2H , L1CAM , SEPT9 , SMCHD1 , PLP1 , ALS2 , DUX4 , ETS1 , SPG7 , FGF3 , ISCU , MARS2 , GARS , TSEN2 , TSEN34 , VRK1 , GRN , SPG20 , KIAA0196 , AARS , EXOSC3 , OPA3 , GATA2 , SEPSECS , FRG1 , PRKCA , YBX1 , AKT1

Summary

Date of Birth: 04/15/1950	Provider: Intermountain	Specimen ID #: 1234567
Gender: Male	Healthcare	Date Collected: 09/09/2016
Medical Record #: 00123456	Physician: Dr. Jane Smith	Specimen Site:
Additional Recipients: John Doe	Pathologist: Dr. John Brown	Specimen Grade:

Clinical Description

According to information provided to ARUP, the patient is a one year old male. He was delivered by cesarean section at 39 weeks and 5 days. At birth he weighed 6 pounds and 1 ounce, and was 17.5 inches long. He has multiple congenital anomalies including a large occipital encephalocele, tecto-cerebellar dysraphism, posterior plagiocephaly, relative macrocephaly, left-sided facial weakness, unilateral lack of eye closure, optic nerve hypoplasia, prominent nasal bridge and columella, bilateral low-set microtia with ear tags, bilateral mixed hearing loss, Mobitz type II atrioventricular block s/p epicardial pacemaker, right torticollis, vertebral segmentation defects (C2-3 fusion, abnormal T2-3 and T12), fused right first and second rib and rudimentary left rib, mild scoliosis, long and narrow left thumb, polysplenia, transverse liver and horseshoe kidney.. His weight and height are less than 1st percentile but show normal growth velocity. He was socially smiling at 8 weeks, rolling from front to back at 5 months and babbling since 6 months. He did not fully support his head at nine months. Previous normal diagnostic test results included creatinine, blood urea nitrogen, cytomegalovirus and cytogenomic SNP microarray. He has one healthy older sister with heterochromia. His father has 2-3

syndactyly and history of porencephalic cyst. His family history also includes a maternal grandfather with unilateral hearing loss at birth, a maternal uncle with macrocephaly, a maternal uncle who died with congenital anomalies and abnormal ears, a maternal great uncle with an unilateral ear anomaly and bilateral hearing loss, a maternal second cousin with an unilateral ear anomaly and hearing loss, a paternal first cousin with congenital heart valve defect requiring surgery, a paternal uncle with sarcoid disease who is 80 percent blind in one eye, another paternal uncle with sarcoidosis and a paternal uncle with cleft palate. His paternal grandmother died with lupus and Crohn's disease and a paternal great uncle has intellectual disabilities and has been in assisted living since early adulthood.