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| --- | --- | --- | --- |
| Gene | Clinical features | Brain MRI | EEG |
| KCNQ2 | Dysmorphic features (2/8), drug-resistant epilepsy (6/8), global developmental delay (3/8), speech problems (3/8), cognitive impairment (5/8), multiple seizure types (3/8) | N/A | N/A |
| ACTL6B | Dysmorphic features (3/5), multiple seizure types (5/5), cognitive impairment, drug-resistant epilepsy, autistic features(2/5) | N/A |  |
| STXBP1 | Cognitive impairment (3/4), global developmental delay, speech problems (1/4), drug-resistant epilepsy (2/4) | N/A | Hipsaritmia/ Focal epileptic  |
| SCN1A | Dysmorphic features (1/4), multiple seizure types (2/4),Cognitive impairment, global developmental delay, speech problems (1/4), cerebral malformations (1/4), drug-resistant epilepsy(3/4) | N/A | Focal/ Multifocal epileptic  |
| CDKL5 | Multiple seizure types (1/3), cognitive impairment, global developmental delay, speech problems (1/3), drug-resistant epilepsy, autistic features | N/A | Multifocal epileptic/Burst-supression |
| SCN2A | Dysmorphic features (1/2), multiple seizure types, cognitive impairment (1/2), global developmental delay, speech problems (1/2), drug-resistant epilepsy (1/2) | N/A | N/A |
| ADAM22 | Multiple seizure types (2/2), cognitive impairment, speech problems (1/2), drug-resistant epilepsy | N/A | Focal/ Multifocal epileptic |
| PRUNE1 | Dysmorphic features (1/2), multiple seizure types (1/2), cognitive impairment, global developmental delay, speech problems (1/2), drug-resistant epilepsy (1/2) | N/A | Focal/ Multifocal epileptic |
| OCLN | Dysmorphic features, multiple seizure types (1/2), cognitive impairment, cerebral malformations(1/2) drug-resistant epilepsy | Abnormal | Focal epileptic |
| KMT2E | Dysmorphic features, cognitive impairment | N/A | Focal epileptic |
| SUOX | Dysmorphic features, multiple seizure types, cognitive impairment | Abnormal | Generalized epileptic |
| SCN8A | Dysmorphic features, multiple seizure types, cognitive impairment, drug-resistant epilepsy, autistic features | Abnormal |  |
| ARX | Dysmorphic features, multiple seizure types,  | Abnormal | Normal |
| CACNA1D | Multiple seizure types, cognitive impairment, drug-resistant epilepsy | Abnormal | Normal |
| IFIH1 | Dysmorphic features, multiple seizure types, cognitive impairment, cerebral malformations, drug-resistant epilepsy, autistic features | Abnormal | Hipsaritmia |
| PLPBP | Autistic features | Normal | Focal epileptic  |
| ITPA | Dysmorphic features, multiple seizure types, cognitive impairment, cerebral malformations, drug-resistant epilepsy | Abnormal | Focal epileptic  |
| CASK | Dysmorphic features, cognitive impairment, cerebral malformations,drug-resistant epilepsy | Abnormal | Burst-supression |
| GABRB3 | Cognitive impairment, drug-resistant epilepsy | Normal | Hipsaritmia |
| MED13L | Dysmorphic features, multiple seizure types, cognitive impairment, drug-resistant epilepsy | Abnormal | Generalized epileptic |
| FOLR1 | Multiple seizure types, cognitive impairment, drug-resistant epilepsy | Abnormal | Focal epileptic |
| AARS | Dysmorphic features, multiple seizure types, cognitive impairment, drug-resistant epilepsy | Abnormal | Burst-supression |
| GNAO1 | Cognitive impairment | Normal | Focal epileptic |
| NDUFA13 | Cognitive impairment | Abnormal |  |
| CSTB | Multiple seizure types, cognitive impairment, speech problems  | Normal | Multifocal epileptic |
| CNTPA1 | Dysmorphic features, multiple seizure types, cognitive impairment, global developmental delay, drug-resistant epilepsy | Normal | Multifocal epileptic |
| CLP1 | Dysmorphic features, multiple seizure types, cognitive impairment, global developmental delay | Abnormal | Multifocal epileptic |
| PCDH-19 | Cognitive impairment, speech problems  | Normal | Focal epileptic |
| BRAF | Dysmorphic features, multiple seizure types, cognitive impairment, drug-resistant epilepsy | Abnormal | Focal epileptic |
| GMPPB | Dysmorphic features, multiple seizure types, cognitive impairment, drug-resistant epilepsy | Abnormal | Focal epileptic |
| GRIN1A | Dysmorphic features, cognitive impairment | Abnormal | Normal |
| 1p32.3 | Dysmorphic features | Abnormal | Encephalopatic |
| CHD7 | Dysmorphic features | Abnormal | Normal |