

Supplemental Table S3. Candidate Genes in the Causative Genes of Rare Neurodevelopmental Disorders and their Interactive Partners.

Gene	Neurodevelopmental Disorder
<i>A2ML1</i>	Noonan Syndrome gene
<i>AIFM3</i>	22q11.2DS gene
<i>ANKRD11</i>	Cornelia de Lange Syndrome gene
<i>ARVCF</i>	22q11.2DS gene
<i>B3GLCT</i>	Peter Plus Syndrome Gene
<i>BMI-1</i>	interacts with CHD7
<i>BRAF</i>	Noonan Syndrome gene
<i>BRD4</i>	Cornelia de Lange Syndrome gene
<i>BRG1</i>	Cornelia de Lange Syndrome interaction partner
<i>CBL genes</i>	Noonan Syndrome gene
<i>CCDC188</i>	22q11.2DS gene
<i>CCDC8</i>	Three M Syndrome 2 Gene
<i>CDC42</i>	Aarskog interaction partner
<i>CDC45</i>	22q11.2DS gene
<i>CDK8</i>	Opitz-Kaveggia Syndrome interaction partner
<i>CHD7</i>	CHARGE Syndrome gene
<i>CCDC8</i>	Three M Syndrome 1 gene
<i>CLDN5</i>	22q11.2DS gene
<i>CLTCL1</i>	22q11.2DS gene
<i>COMT</i>	22q11.2DS gene
<i>CRKL</i>	22q11.2DS gene
<i>CRMP2</i>	Aarskog and Noonan Syndromes interaction
<i>CUL7</i>	Three M Syndrome 2 Gene
<i>DGCR14</i>	22q11.2DS gene
<i>DGCR2</i>	22q11.2DS gene
<i>DGCR6</i>	22q11.2DS gene
<i>DGCR6L</i>	22q11.2DS gene
<i>DGCR8</i>	22q11.2DS gene
<i>DHCR7</i>	Smith-Lemli-Optiz Syndrome
<i>DUSP4</i>	interacts with CHD7
<i>FGD1</i>	Aarskog Syndrome gene
<i>FGFR2</i>	MAPK/FGF/Apert Syndrome gene
<i>GNB1L</i>	22q11.2DS gene
<i>GP1BB</i>	22q11.2DS gene
<i>GSC2</i>	22q11.2DS gene
<i>HDAC8</i>	Cornelia de Lange Syndrome gene
<i>HIC2</i>	22q11.2DS gene
<i>HIRA</i>	22q11.2DS gene
<i>KLHL22</i>	22q11.2DS gene

<i>KMT2D</i>	Kabuki Syndrome gene
<i>KRAS</i>	Noonan Syndrome gene
<i>LINC00896</i>	22q11.2DS gene
<i>LOC101927859</i>	22q11.2DS gene
<i>LRRC748</i>	22q11.2DS gene
<i>LZTR1</i>	22q11.2DS gene/Noonan Syndrome gene
<i>MAU2</i>	Cornelia de Lange Syndrome interaction
<i>MED12</i>	Opitz-Kaveggia Syndrome gene
<i>MED13</i>	Opitz-Kaveggia Syndrome interaction partner
<i>MED15</i>	Opitz-Kaveggia Syndrome interaction partner and 22q11.2DS gene
<i>MIDI</i>	Opitz G/BBB Syndrome gene
<i>mir1286</i>	22q11.2DS gene
<i>mir185</i>	22q11.2DS gene
<i>mir3618</i>	22q11.2DS gene
<i>mir4761</i>	22q11.2DS gene
<i>mir649</i>	22q11.2DS gene
<i>mir6816</i>	22q11.2DS gene
<i>MRPL40</i>	22q11.2DS gene
<i>NIPBL</i>	Cornelia de Lange Syndrome gene
<i>NRAS</i>	Noonan Syndrome gene
<i>OBSL1</i>	3M Syndrome type 2 Syndrome gene
<i>P2RX6</i>	22q11.2DS gene
<i>PARQ3B</i>	CHARGE Syndrome interaction partner
<i>PRODH</i>	22q11.2DS gene
<i>PTPN11</i>	Noonan Syndrome gene
<i>RAD21</i>	Cornelia de Lange Syndrome gene
<i>RANBP1</i>	22q11.2DS and Noonan Syndrome gene
<i>RECQL3</i>	Bloom Syndrome gene
<i>REST</i>	Opitz-Kaveggia Syndrome interaction partner
<i>RIT1</i>	Noonan Syndrome gene
<i>RTN4R</i>	22q11.2DS gene
<i>SCARF2</i>	22q11.2DS gene
<i>SCRAP</i>	Floating-Harbour Syndrome gene
<i>SEPT5</i>	22q11.2DS gene
<i>SERPIND1</i>	22q11.2DS gene
<i>SHOC2</i>	Noonan Syndrome gene
<i>SLC25A1</i>	22q11.2DS gene
<i>SLC7A4</i>	22q11.2DS gene
<i>SMC1A</i>	Cornelia de Lange Syndrome gene
<i>SMC3</i>	Cornelia de Lange Syndrome gene
<i>SNAP29</i>	22q11.2DS gene
<i>SOS1</i>	Noonan Syndrome gene
<i>SOS2</i>	Noonan Syndrome gene
<i>SOX9</i>	Campomelic Dysplasia gene

<i>SPECC1L</i>	Opitz G/BBB Syndrome gene
<i>TANGO2</i>	22q11.2DS gene
<i>TBX1</i>	22q11.2DS gene
<i>THAP7</i>	22q11.2DS gene
<i>TRMT2A</i>	22q11.2DS gene
<i>TSSK2</i>	22q11.2DS gene
<i>TXNRD2</i>	22q11.2DS gene
<i>UFD1L</i>	22q11.2DS gene
<i>USP41</i>	22q11.2DS gene
<i>ZDHHC8</i>	22q11.2DS gene
<i>ZNF74</i>	22q11.2DS gene
