

Supplementary materials

Screening of potential novel candidate genes in schwannomatosis patients.

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Supporting Table S1. Clinical genetic testing summary.

| | No. of Index Cases | | |
|----------------|----------------------------|-------------------|------|
| | Screening for Germline PVs | | |
| | NGS | Sanger sequencing | MLPA |
| <i>NF2</i> | 43 | 32 | 75 |
| <i>SMARCB1</i> | 47 | 28 | 75 |
| <i>LZTR1</i> | 53 | 22 | 75 |

Supporting Table S3. Primer sequence for amplification of exonic regions of candidate genes and two intronic regions in *SMARCB1*.

| Gene | Exon/Intron | Sequence (5'-3') |
|--------------|-------------|------------------------|
| <i>DGCR8</i> | E2Fa | CAATGTGGCCAGCTTGACTAAG |
| <i>DGCR8</i> | E2Ra | CTGTGTACAGCACCTTCCTGTC |
| <i>DGCR8</i> | E2Fb | CCTGACCTTAAGTTGCTTAAGG |
| <i>DGCR8</i> | E2Rb | GCTGCAATCCCAAATCTCTC |
| <i>DGCR8</i> | E3F | GTTCTCAGGAATGCTGTTGAG |
| <i>DGCR8</i> | E3R | GTCCTGTCCTCAAACATGCC |
| <i>DGCR8</i> | E4F | GTACCCAACAATTTCTTGTC |
| <i>DGCR8</i> | E5R | CAACAGTGGAGGTGCACAG |
| <i>DGCR8</i> | E6F | GAAATAGTGTTCATGTGGCCTG |
| <i>DGCR8</i> | E7R | CTGACCAAAGTTACACCTTGTC |
| <i>DGCR8</i> | E8F | CTGACTGCGCCTTGCTGTC |
| <i>DGCR8</i> | E8R | CACTTGTCACCACTGCTCAG |
| <i>DGCR8</i> | E9F | CTGTCACTGAAGTGCTGTCTC |
| <i>DGCR8</i> | E9R | CAGCTCACACTAACAGGGCAG |
| <i>DGCR8</i> | E10F | CTAGGCGAGCTCACAAGAAC |
| <i>DGCR8</i> | E11R | GACAATGCCAGGGCAACAG |
| <i>DGCR8</i> | E12F | GAGTGCTGCCTATTCCTGTAG |
| <i>DGCR8</i> | E12R | GCACAGAGCCTCAGGAATAC |
| <i>DGCR8</i> | E13F | CTGTTTCGTGTCTGCCAGAC |
| <i>DGCR8</i> | E13R | GAAGGAGGATCCAAGCATTTTC |
| <i>DGCR8</i> | E14F | CTAGCCTGGCATCACAAGC |
| <i>DGCR8</i> | E14R | CATGGCTGTCCCTGTACAC |
| <i>COQ6</i> | E1F | GAGGCAAGGTTTCGTTTTCC |
| <i>COQ6</i> | E1R | CACTTTTGACCCTAATGGACC |
| <i>COQ6</i> | E2F | GGAGAAGTCTTACAGTTGTGGG |
| <i>COQ6</i> | E2R | GAGCTCCCTCCTTGTCAGATG |
| <i>COQ6</i> | E3F | GTAACAGGATGGAGGGACAAGG |

Supporting Table S2 (continued).

| | | |
|----------------|------|-------------------------|
| <i>COQ6</i> | E4R | CAGAGGATTTCTTTATGGTGG |
| <i>COQ6</i> | E5F | GAGTTATCTCTGTGGCTTCTGTC |
| <i>COQ6</i> | E5R | CGATGAGACCATCTCCACTTG |
| <i>COQ6</i> | E6F | CACACAACAATCAGAGCTGGAG |
| <i>COQ6</i> | E7R | GCAGATTCCTTGAAACCAG |
| <i>COQ6</i> | E8F | CTGGTTTCAAGGGAATCTGC |
| <i>COQ6</i> | E8R | GAGATTGCACAGTGAGCCAAG |
| <i>COQ6</i> | E9F | CAGTGTAGGCAAGTTGGGTAG |
| <i>COQ6</i> | E10R | TGTCCACTCCCTCTTGCTACT |
| <i>COQ6</i> | E11F | CTATGGGGAAGTATCCAGAGGTC |
| <i>COQ6</i> | E11R | CAGGATAATCACTTGAACCTGG |
| <i>COQ6</i> | E12 | CAAGGACACTTGGGAAGAATAC |
| <i>COQ6</i> | E12 | GGTCTGGCTAATATACGCTCCTC |
| <i>CDNK2A</i> | E1F | GTTCCGAGATCTTGGAGGTC |
| <i>CDNK2A</i> | E1R | CTGTGTGAAGGGAGGTCCAG |
| <i>CDNK2A</i> | E2F | CGACAGCTCCGCAGAAGTTC |
| <i>CDNK2A</i> | E2R | CTGAGGCAAGACCGGAGACTG |
| <i>CDKN2A</i> | E3F | GTACATGCACGTGAAGCCATTG |
| <i>CDKN2A</i> | E3R | CTTCGGTGACTGATGATCTAAG |
| <i>CDNK2B</i> | E1F | AGGACGACGGGAGGGTAATG |
| <i>CDNK2B</i> | E1R | CTACATCGGCGATCTAGGTTC |
| <i>CDNK2B</i> | E2F | ACACCAGACATCAGAGACCTG |
| <i>CDNK2B</i> | E2R | CAGACAGGCTTGCAAGCTTAC |
| <i>TCM1</i> | E15F | CTCAGATTTAGTTTACATT |
| <i>TCM1</i> | E15R | GTAACTGTAAGGGCAGGATAG |
| <i>SMARCB1</i> | I4F* | - |
| <i>SMARCB1</i> | I4R* | - |
| <i>SMARCB1</i> | I6F | CACCATATTTGTCAGTCTGG |
| <i>SMARCB1</i> | I6R | GGACAAATACTGCATGATTCC |

*This region was interrogated using NGS data.