

Supplemental Data

***DYNC2H1* Mutations Cause  
Asphyxiating Thoracic Dystrophy and  
Short Rib-Polydactyly Syndrome, Type III**

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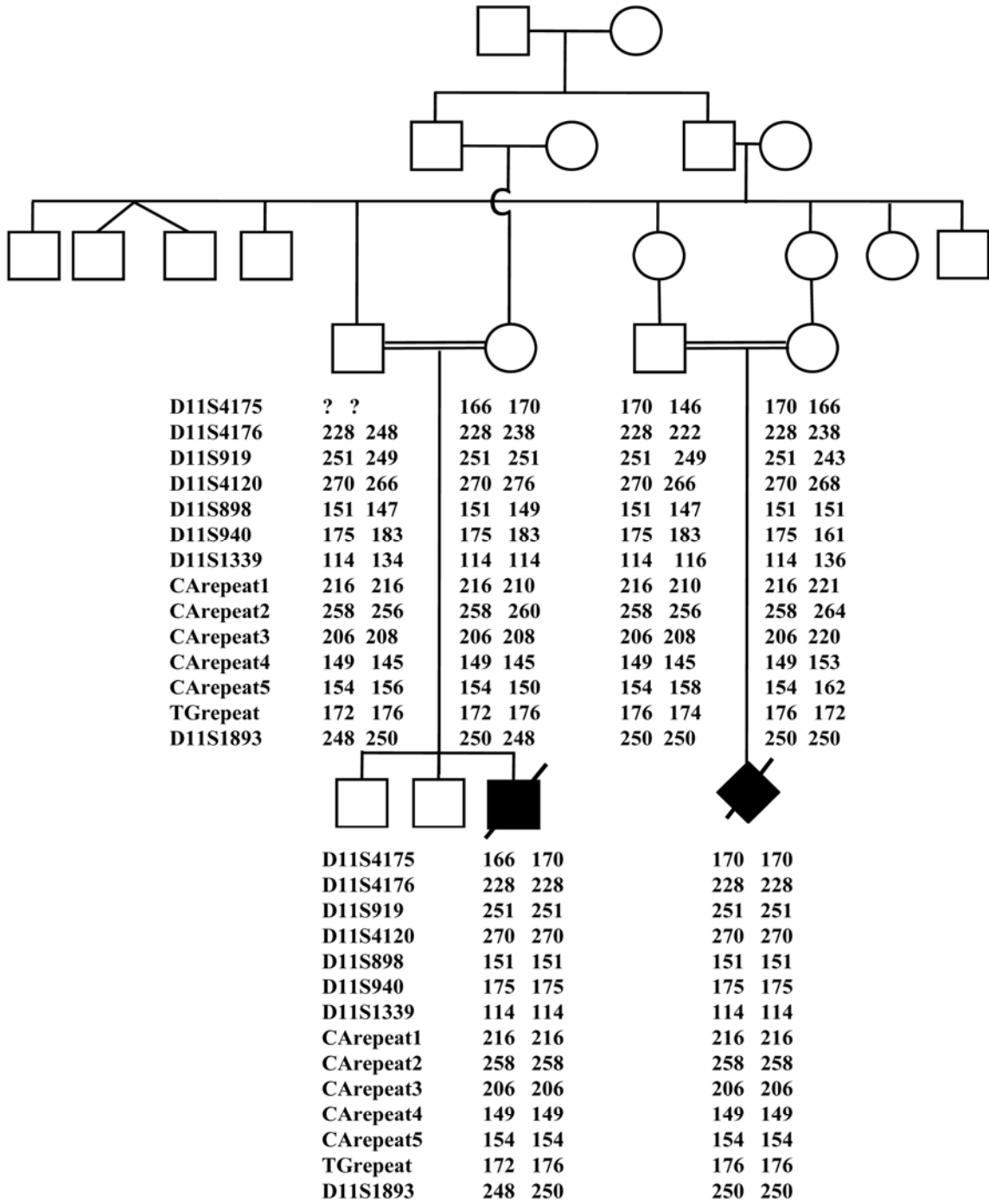


Figure S1. Haplotype of the Family 1 in the 11q14.3-11q23 Region

Note the common region of homozygosity in the two affected children.

Table S1. *DYNC2H1* Primer Sequences

DYNC2H1ex1s	ATAAACTTGTCCGAACCCCTTA
DYDNC2H1ex1as	TGGTAAAGCTAAAGAGTGTGACC
DYNC2H1ex2s	AGGAAAGAAGAGATAAAATTGGTTTT
DYNC2H1ex2as	AATGTTGAGTTGATGTGGATTG
DYNC2H1ex3s	CAATCCACATCAACTCAACATT
DYNC2H1ex3as	ACCTATGCTCAGAGAAATTCCA
DYNC2H1ex4s	GTGGCACTAAGTAGACTTCAGGA
DYNC2H1ex4as	GCTGTAAAAATTGAATCCCAA
DYNC2H1ex5s	GGGGAAATTATAGGGTATTTGC
DYNC2H1ex5as	TGCTACATGATTTGCTTTAAGAGT
DYNC2H1ex6s	GCATGTGGTATTTCATAGATCCT
DYNC2H1ex6as	AGTTGACCAGTCTCACACAAAA
DYNC2H1ex7s	AGCATCACTTTGTTGTTGTCAC
DYNC2H1ex7as	TAAGTACATGTTTCATCCCAACG
DYNC2H1ex8s	TCTCTATTTTCTACCTGCCAGT
DYNC2H1ex8as	TTATAGTTGGACGCTTTACCA
DYNC2H1ex9s	ACAGTTTCCTGTTTATGTTGTTCTT
DYNC2H1ex9as	TAATCTTCAGCATGAAAATGTCAG
DYNC2H1ex10s	TGATACATGGTACAGTCCTTGG
DYNC2H1ex10as	CGACTCCTCTGCATACTTTTTTC
DYNC2H1ex11s	AAGGGGACTCCTTACTTTATGC
DYNC2H1ex11as	GGGAACAGACAAGAGAAACAAG
DYNC2H1ex12s	TCAAACAGTGAGAACATGAAACT
DYNC2H1ex12as	ACAGCTGGCAGTGCTATTCTAT
DYNC2H1ex13s	ACTTGGCAAATTGTAGGAACTC
DYNC2H1ex13as	CCTGGAAGCAAAACAAAATCTA
DYNC2H1ex14s	GAAATGGGCTACTCAATCTTTG
DYNC2H1ex14as	AATGGGAATTGTGATTTCTCTG
DYNC2H1ex15s	GTTTTGCCCTTCTCAGTACATT
DYNC2H1ex15as	CTTTTATGAACTTCTCGGCAAT
DYNC2H1ex16s	CGGAGAGTAACAAGGATGTACC
DYNC2H1ex16as	AATATTTAGCCCGGATTTCTTC
DYNC2H1ex17s	ATCAGTACCAGATGGGCTTAGA
DYNC2H1ex17as	TTTAATGTTATGCCACACAAGG
DYNC2H1ex18s	TCTTTAGGCTGTGCAGTAATGA
DYNC2H1ex18as	TGCCCTACCTAGATGATACTCAA
DYNC2H1ex19s	TCTAAATGTGCTTAAAGATCACCA
DYNC2H1ex19as	TGAATATGGACTTTTCCTGCTT
DYNC2H1ex20s	TCTTTGCTTATTCACATCTTG
DYNC2H1ex20as	AACCAGGTAAGCCAGACTATTG
DYNC2H1ex21s	TCTGCCAAATCAGAATATATAGGA
DYNC2H1ex21as	GTAGTCAGGGAGGTCAATTTCA
DYNC2H1ex22s	CCATCCTTTGAAAAGTTGACAT
DYNC2H1ex22as	AAAAGTGATGAAGTTTATGAGGAAA
DYNC2H1ex23-24s	CACACATACAAGGATTGCAGTT
DYNC2H1ex23-24as	TTTCTATTTTCTTCATCAAACG
DYNC2H1ex25s	AAAGGGTAATTGTGTGTGTCC

DYNC2H1ex25as	AGCAAACCTGATTCTTGGCTTAG
DYNC2H1ex26s	CCTTATGGTGAAAAGCCAGATA
DYNC2H1ex26as	TCTCAAAGGATCCACTAGGAA
DYNC2H1ex27s	CCTTTAGTTCATTTTAAGCAGGTAA
DYNC2H1ex27as	GTAGACTGGCCCAATATTTCTA
DYNC2H1ex28s	GTCACAACATTAACTACTCATGCT
DYNC2H1ex28as	CACCAGAATTGTCACACTGTAT
DYNC2H1ex29s	TCCCTCAATAGGACATTTAAACA
DYNC2H1ex29as	AATACTCCGAACTAACAAAACAAA
DYNC2H1ex30s	ACCCCGTCTTGAAATAACAGTA
DYNC2H1ex30as	ATCCTACTCACCCTGGCCTA
DYNC2H1ex31s	GGTTCAGTATGACATTAAGATGG
DYNC2H1ex31as	TTCCTCGAGTAATCACCAACAC
DYNC2H1ex32s	AATTCATGGAGAAATCACCTGT
DYNC2H1ex32as	TGTGACACCTTTCTAATTCTGATT
DYNC2H1ex33s	TTTAACCTGTTTGTTCATTTTT
DYNC2H1ex33as	ACGTACAACCTCTGTCCATTTTT
DYNC2H1ex34s	TGTTTATCCCTTGAAATCAACC
DYNC2H1ex34as	CAGATTAGAAACACGGATGTCA
DYNC2H1ex35s	AATTCTGTTGGCAGCATATTTTA
DYNC2H1ex35as	GAAAAGCAAGTAGTTTTGAACCA
DYNC2H1ex36s	ACCGTCCATCTTTAACAGCTTA
DYNC2H1ex36as	TGGGGCAGGGTATACAGTAAT
DYNC2H1ex37s	TGATTAATAATGCATATCAAGGCTA
DYNC2H1ex37as	TTTGATAAGAGCACACAGCAAG
DYNC2H1ex38s	TATTACATTTTAGGCAATACCTTCC
DYNC2H1ex38as	CATGTAGAAGTCTTGACAAAGACAG
DYNC2H1ex39s	CTGAAGAATATCTTGTGGGAAT
DYNC2H1ex39as	GACCAAATTTTCTTGCTGTTTC
DYNC2H1ex40s	GCAGACAAAATATGTGCGTAGA
DYNC2H1ex40as	CAGCAAGATGGTTTTTGTAGT
DYNC2H1ex41s	TGAACATGTATTCTTTTTGGAA
DYNC2H1ex41as	CATCATAAAATAACTCAAAGGAGA
DYNC2H1ex42s	TGGAAC TAAGATGATTTACTTTTTGG
DYNC2H1ex42as	CCAGTAGAAATCACACAACCTG
DYNC2H1ex43s	AGAAAGTTGCTTTGATAGTTATGGA
DYNC2H1ex43as	CTAGATAAAACTGGCCCCAAT
DYNC2H1ex44s	TTCATAGAACACAGAGATTTGAACA
DYNC2H1ex44as	GCCTATATTTTGAGAAGGGTAGG
DYNC2H1ex45s	AATTTGGTTGAAATGAGAATGG
DYNC2H1ex45as	ACAACAGTGAATAAGGCACACA
DYNC2H1ex46s	GAAATCCAGTTCATCTACAGG
DYNC2H1ex46as	TGACAATCATACACAGTTTGGAA
DYNC2H1ex47s	TCCATTTATCTGATGCCAAAAT
DYNC2H1ex47as	ACTGAGCTGTACCTTACGGAAA
DYNC2H1ex48s	TTCTGGAGATGATCTTATTTGGA
DYNC2H1ex48as	AACCAGCTTTGCCTATTCTACA
DYNC2H1ex49s	AAAATATTGAGTGTGAGATGATATG
DYNC2H1ex49as	TAATAACCAATGTAATTTAAAACCA
DYNC2H1ex50s	TTAGGGGTTGGATTTACTTTCC

DYNC2H1ex50as	ACTATGCCAAAAGTTCTCCAAA
DYNC2H1ex51s	TTTGAGTGGTTTGCTTAGGTGT
DYNC2H1ex51as	CCTTTGCAATCTAATGACAAAAT
DYNC2H1ex52s	AACCCAGACCACGTATAGATTG
DYNC2H1ex52as	TGATGCAAGAGTACGAAGAAAA
DYNC2H1ex53s	TCTGGAATGAATCCTAGAAGAAA
DYNC2H1ex53as	AAAATTTTGTTCATCAGAAGA
DYNC2H1ex54s	TAGTTGTCTAGGAATGCCTGTG
DYNC2H1ex54as	AGGAAAGTGAGACTGTTTTCCA
DYNC2H1ex55s	CCTCTGTGGGATCTTTAACTACA
DYNC2H1ex55as	AGTCTGACTCAGTATGAATAAGCAA
DYNC2H1ex56s	GCATTTTGAAACTCTTTGTCT
DYNC2H1ex56as	AGGCTTTCCTTCTTGTCTCTT
DYNC2H1ex57s	CCTTGTATGATTGAAAGCATTTT
DYNC2H1ex57as	ATTTCAAGCCAAAATGTACACC
DYNC2H1ex58s	TCTGTCTCAAATCAAACAAACAA
DYNC2H1ex58as	ACCTGATTCTGATGGTTAATGC
DYNC2H1ex59s	TGCCCAAATAAAGTGTGTTAGA
DYNC2H1ex59as	TGAGTTGGTTCTTCTCTCTCCT
DYNC2H1ex60s	gggtcagaggaaacacttct
DYNC2H1ex60as	ccacagcatcatctgacata
DYNC2H1ex61s	GTGTGTGGGTTTGTCTTTCTA
DYNC2H1ex61as	AACATACGGAAGTAAAGGAAA
DYNC2H1ex62s	CCCTCACAGTCAAACCATAAA
DYNC2H1ex62as	TGTGGAATTCAGCAAATCTAAA
DYNC2H1ex63s	TAAATGTGGAAGAATGGGTTTC
DYNC2H1ex63as	GAATCATTGATGGGTTTTTCATT
DYNC2H1ex64s	TGGAGACGTAAAATAAGATGACAA
DYNC2H1ex64as	GAAGCACAATGATGTGGTTAGT
DYNC2H1ex65s	CTCCAAAGCTTGAGAGAAAAGA
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DYNC2H1ex71as	tgctataaggcattccagtt
DYNC2H1ex72s	CCCCTGACTTGAAGTGTCTCTA
DYNC2H1ex72as	TCATCCACAGGGAAGTAGAACT
DYNC2H1ex73s	TGTTGTCACATTAATTCATTCTTGA
DYNC2H1ex73as	GGAAATACTTAAGAGCCAGAA
DYNC2H1ex74s	GAATTTTACCATGGTGACTTGTA
DYNC2H1ex74as	GGTAACTTTTTACTGGGGGAAC
DYNC2H1ex75s	CAAGGCAACACAAAGTAGAAGA

DYNC2H1ex75as	CCAAATACGCCATTAAAGGTAA
DYNC2H1ex76s	AACAATGATAAGTGTTCCCATATTT
DYNC2H1ex76as	CAGTTACAGAATGAGCCACCAT
DYNC2H1ex77s	GGCACCTTAAGCATAAAACAGA
DYNC2H1ex77as	CCACAGTTC TGAGGATTAGGAC
DYNC2H1ex78s	AAGCCAGTTAGGAAGGTTTAGG
DYNC2H1ex78as	TTGGCTTCTCTTATATGCCTTT
DYNC2H1ex79s	ATTTCAACCCAGTCAACATGA
DYNC2H1ex79as	TGTAAAAAGAAGTTGTGTGTTCTG
DYNC2H1ex80s	ATTTAACTCAAACCCGGTAAGC
DYNC2H1ex80as	CTCCCACAGTACTGGGATTACA
DYNC2H1ex81s	CTTTTCATGCTATGGCCAGTTA
DYNC2H1ex81as	GAATCCATGTAAAAACAGATCCA
DYNC2H1ex82s	AACTCAAGGCAGGAATTTAGTTA
DYNC2H1ex82as	TTATGATCAACCACCCAACTTT
DYNC2H1ex83s	AATGACAGAATACTTCCCACAGA
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DYNC2H1ex85as	TGACTCGGGTCTTCTGCTATTA
DYNC2H1ex86s	CAGGAACTTGTA CTTTCTTCC
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DYNC2H1ex89s	CACTAGTCCAGGCCTTACTGAC
DYNC2H1ex89as	TGTTCAAATGCAGGTGAGATTA
DYNC2H1ex90fragt1s	GGATGATAGGGGTT CATCATATT
DYNC2H1ex90fragt1as	CACAGTGCTGCTTTTACACATT
DYNC2H1ex90fragt2s	CATCTTCACAAAAGGGAACATT
DYNC2H1ex90fragt2as	CTCTATCCTGGGCAACAGAGT