

81 PCR-direct sequencing of the DSCs will further confirm
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 83

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REFERENCES

1. Lee LV, Rivera C, Teleg RA et al (2011) The unique phenomol- 104
 ogy of sex-linked dystonia parkinsonism (XDP, DYT3, "Lubag"). 105
Int J Neurosci 121(Suppl 1):3–11 106
 2. Makino S, Kaji R, Ando S et al (2007) Reduced neuron-specific 107
 expression of the TAF1 gene is associated with X-linked dystonia- 108
 parkinsonism. *Am J Hum Genet* 80(3):393–406 109
 3. Nolte D, Niemann S, Muller U (2003) Specific sequence changes in 110
 multiple transcript system DYT3 are associated with X-linked dysto- 111
 nia parkinsonism. *Proc Natl Acad Sci U S A* 100(18):10347–10352 112
 4. Herzfeld T, Nolte D, Grznarova M, Hofmann A, Schultze JL, Muller 113
 U. X-linked dystonia parkinsonism syndrome (XDP, lubag): 114
 disease-specific sequence change DSC3 in TAF1/DYT3 affects 115
 genes in vesicular transport and dopamine metabolism. *Human* 116
molecular genetics 2012 117
 5. Thomas MC, Chiang CM (2006) The general transcription machinery 118
 and general cofactors. *Crit Rev Biochem Mol Biol* 41(3):105–178 119

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