List of Tables

Chapter 3: Characterization of mutants show pleiotropic defects in Touch Receptor Neurons 41-82

Table 1: Table 1: Response of animals to plate tap 75

Chapter 4: Mapping of the mutants with pleiotropic defects in TRNs 84-115

Table 1: Non-complementation test among mutants with fewer mitochondria shows tb118, tb132 and tb133 are alleles 87

Table 2: Non-complementation test of complementation group with another set of mutants with less mitochondrial density in TRNs 88

Table 3: Non-complementation test among isolated and tubulin mutants 96

Table 4: Combined non-complementation test result 97

Table 5: SNPS in jsIs609 with reference to c_elegans_Ensembl_R72 99

Table 6: Biotypes of SNPs present in mapped region on the X chromosome as a result of cloud map analysis 104

Table 7: Candidate genes result of whole genome sequencing with respect to their reference genome 106

Table 8: Result of cloud map analysis: marked rows show SNPs found as result of whole genome sequencing 107

Table 9: Subtraction of jsIs609 SNPs to get candidate gene and SNPs from whole genome sequencing result 107

Table 10: Base pair analysis result showing common coding genes affected in mutants 109

Table 11: Position of exons in K09F5.6 gene 110
Chapter 6: Mitochondrial pattern development in developing Touch Receptor Neurons

Table 1: Turnover of stationary position in proximal, mid and distal region 148