

Supp. Table 1.1 Mutants identified in each screen (increased mtDNA)

| Screen 1 | 106 mutants | |
|-----------|-------------|---------|
| YAL016W | YHR026W | YMR224C |
| YBL058W | YHR031C | YMR280C |
| YBR077C | YHR035W | YMR284W |
| YBR106W | YHR039C-B | YNL238W |
| YBR194W | YHR064C | YNL250W |
| YCL061C | YHR135C | YNL271C |
| YCR009C | YHR167W | YNL295W |
| YCR044C | YHR187W | YNR072W |
| YDL047W | YHR191C | YOL072W |
| YDL049C | YHR200W | YOL076W |
| YDL116W | YIL052C | YOR014W |
| YDR159W | YIL128W | YOR026W |
| YDR274C | YJL016W | YOR066W |
| YDR290W | YJL047C | YOR069W |
| YDR364C | YJL051W | YOR080W |
| YDR369C | YJL115W | YOR114W |
| YDR432W | YJL127C | YOR290C |
| YDR433W | YJR018W | YOR293W |
| YDR448W | YJR043C | YPL045W |
| YDR524C-B | YJR055W | YPL055C |
| YDR524W-A | YKL053W | YPL254W |
| YDR525W | YKL113C | YPR036W |
| YEL027W | YKR001C | YPR039W |
| YEL045C | YLL002W | YPR040W |
| YEL046C | YLL020C | YPR045C |
| YEL051W | YLR056W | YPR135W |
| YFL033C | YLR079W | |
| YGL020C | YLR176C | |
| YGL058W | YLR320W | |
| YGL084C | YLR399C | |
| YGL108C | YML001W | |
| YGL211W | YML028W | |
| YGL223C | YML032C | |
| YGL246C | YML058W | |
| YGR130C | YMR032W | |
| YGR159C | YMR038C | |
| YGR200C | YMR060C | |
| YGR252W | YMR100W | |
| YHL011C | YMR123W | |
| YHR021C | YMR190C | |

| Screen 2 | 158 mutants | | |
|-----------|-------------|-----------|---------|
| YAL047C | YDR363W | YHR154W | YML058W |
| YAL058W | YDR363W-A | YHR167W | YML080W |
| YBL039C | YDR364C | YIL008W | YMR038C |
| YBL071C-B | YDR369C | YIL024C | YMR179W |
| YBL071W-A | YDR414C | YIL076W | YMR224C |
| YBR106W | YDR432W | YIL087C | YMR284W |
| YBR173C | YDR433W | YIL128W | YMR307W |
| YBR174C | YDR448W | YJL047C | YMR312W |
| YBR194W | YDR485C | YJL115W | YNL021W |
| YBR196C-A | YDR532C | YJL127C | YNL072W |
| YBR284W | YEL027W | YJL139C | YNL119W |
| YBR289W | YEL051W | YJL176C | YNL133C |
| YCL016C | YER011W | YJR018W | YNL148C |
| YCL060C | YER074W | YJR104C | YNL199C |
| YCL061C | YER083C | YKL007W | YNL250W |
| YCR009C | YGL019W | YKL037W | YNL295W |
| YCR087C-A | YGL023C | YKL053W | YOL061W |
| YCR094W | YGL066W | YKL055C | YOL064C |
| YDL013W | YGL081W | YKL073W | YOL072W |
| YDL047W | YGL084C | YKL139W | YOR014W |
| YDL049C | YGL105W | YKL191W | YOR039W |
| YDL061C | YGL127C | YKL212W | YOR080W |
| YDL116W | YGL144C | YKR004C-A | YOR114W |
| YDL117W | YGL163C | YKR020W | YOR156C |
| YDL151C | YGL175C | YKR055W | YOR290C |
| YDL239C | YGL188C-A | YLL002W | YOR293W |
| YDR024W | YGL223C | YLR024C | YOR306C |
| YDR025W | YGL235W | YLR047C | YPL024W |
| YDR027C | YGL246C | YLR056W | YPL045W |
| YDR049W | YGR036C | YLR068W | YPL101W |
| YDR083W | YGR104C | YLR079W | YPL102C |
| YDR097C | YGR168C | YLR176C | YPL129W |
| YDR099W | YGR229C | YLR233C | YPL161C |
| YDR112W | YGR240C | YLR267W | YPL193W |
| YDR159W | YGR252W | YLR320W | YPR045C |
| YDR195W | YGR285C | YLR353W | YPR098C |
| YDR255C | YHL011C | YLR371W | YPR135W |
| YDR274C | YHR039C-B | YLR423C | YPR164W |
| YDR279W | YHR111W | YML028W | |
| YDR290W | YHR129C | YML032C | |

| Screen 3 | 75 mutants |
|-----------|------------|
| YAL016C-B | YJR043C |
| YAL016W | YJR074W |
| YAL047C | YJR104C |
| YBL104C | YKL118W |
| YBR106W | YKL119C |
| YBR121C | YLL002W |
| YBR194W | YLR024C |
| YBR262C | YLR176C |
| YBR277C | YLR220W |
| YBR278W | YLR233C |
| YCL016C | YLR242C |
| YCL061C | YLR318W |
| YCR094W | YLR423C |
| YDL049C | YML032C |
| YDL081C | YML058W |
| YDR004W | YML080W |
| YDR097C | YMR038C |
| YDR195W | YMR100W |
| YDR363W-A | YMR179W |
| YDR369C | YMR224C |
| YDR414C | YMR284W |
| YEL027W | YNL148C |
| YEL045C | YNL273W |
| YEL051W | YOL145C |
| YEL061C | YOR080W |
| YGL108C | YOR114W |
| YGL127C | YOR359W |
| YGL163C | YPL045W |
| YGL186C | YPL101W |
| YGR020C | YPL102C |
| YHR026W | YPR044C |
| YHR031C | YPR045C |
| YHR039C-B | YPR120C |
| YHR134W | YPR135W |
| YHR191C | YPR164W |
| YIL128W | |
| YJL047C | |
| YJL115W | |
| YJL176C | |
| YJR015W | |

Supp. Table 1.2 Mutants lacking mtDNA

| 180 mutants | | | | |
|-------------|---------|-----------|---------|-----------|
| YAL048C | YDR298C | YHL004W | YML088W | YOR330C |
| YBL002W | YDR300C | YHR011W | YMR064W | YPL005W |
| YBL022C | YDR322W | YHR091C | YMR066W | YPL013C |
| YBL038W | YDR347W | YHR120W | YMR071C | YPL029W |
| YBL044W | YDR350C | YHR147C | YMR072W | YPL031C |
| YBL090W | YDR377W | YHR168W | YMR084W | YPL059W |
| YBR122C | YDR405W | YHR175W-A | YMR089C | YPL078C |
| YBR132C | YDR470C | YJL023C | YMR097C | YPL097W |
| YBR163W | YDR507C | YJL027C | YMR098C | YPL118W |
| YBR179C | YDR518W | YJL063C | YMR158W | YPL173W |
| YBR251W | YDR521W | YJL096W | YMR184W | YPL183W-A |
| YBR268W | YDR523C | YJL102W | YMR228W | YPL271W |
| YBR282W | YEL036C | YJL140W | YMR267W | YPR047W |
| YCR003W | YEL050C | YJR101W | YMR286W | YPR067W |
| YCR004C | YER014W | YJR113C | YMR287C | YPR100W |
| YCR024C | YER017C | YJR114W | YMR293C | YPR116W |
| YCR028C-A | YER050C | YJR122W | YNL005C | YBL012C |
| YCR046C | YER087W | YJR144W | YNL073W | YLR260W |
| YCR071C | YER103W | YKL003C | YNL081C | YPR099C |
| YDL040C | YER110C | YKL016C | YNL160W | YDL057W |
| YDL044C | YER122C | YKL134C | YNL170W | |
| YDL045W-A | YER154W | YKL155C | YNL177C | |
| YDL062W | YER169W | YKL169C | YNL184C | |
| YDL063C | YFL016C | YKL170W | YNL213C | |
| YDL146W | YFL036W | YKL194C | YNL252C | |
| YDL167C | YGL064C | YKR006C | YNL284C | |
| YDL181W | YGL095C | YLL006W | YNR036C | |
| YDL198C | YGL107C | YLL027W | YNR037C | |
| YDL202W | YGL129C | YLR069C | YOL033W | |
| YDR042C | YGL143C | YLR091W | YOL100W | |
| YDR065W | YGL220W | YLR114C | YOR150W | |
| YDR078C | YGL240W | YLR139C | YOR158W | |
| YDR079W | YGR101W | YLR148W | YOR187W | |
| YDR114C | YGR150C | YLR204W | YOR199W | |
| YDR175C | YGR165W | YLR270W | YOR200W | |
| YDR194C | YGR180C | YLR288C | YOR201C | |
| YDR237W | YGR215W | YLR312W-A | YOR205C | |
| YDR268W | YGR219W | YLR369W | YOR211C | |
| YDR295C | YGR220C | YLR382C | YOR241W | |
| YDR296W | YGR257C | YLR396C | YOR305W | |