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| model | modification |
| model\_mut1 | hsk overexpression (x2) |
| model\_mut2 | met overexpression (x1.5) |
| model\_mut3 | rib overexpression (x1.5) |
| model\_mut4 | met overexpression (x1.5)  rib overexpression (x1.5) |
| model\_mut5 | hsk under-expression (x0.7) |
| model\_mut6 | met overexpression (x1.25)  rib overexpression (x1.25)  hsk under-expression (x0.7) |