

Figure 7 E-F

WT strain overexpressing (OE) or not (vector) NMA1 gene and grown in SDcasaW ± Adenine medium

Peak area

| Metabolite/OE gene | - Ade | - Ade | - Ade | - Ade | + Ade | + Ade | + Ade | + Ade | Mean | Mean | SD | SD | Unpaired t-test | Unpaired t-test | Unpaired t-test |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-----------------|--------------------|--------------------|
| | - Ade | - Ade | - Ade | - Ade | + Ade | + Ade | + Ade | + Ade | - Ade | + Ade | - Ade | + Ade | - Ade vs + Ade | mutant vs WT - Ade | mutant vs WT + Ade |
| ATP/No | 196 | 181.1 | 196.2 | 202 | 222.9 | 218.7 | 207.5 | 217.7 | 193.83 | 216.70 | 8.93 | 6.53 | 7.4E-03 | | |
| ATP/NMA1 | 186 | 196.6 | 200.2 | 205 | 217.5 | 223.4 | 211.8 | 216.3 | 196.95 | 217.25 | 8.07 | 4.78 | 8.0E-03 | 6.2E-01 | 9.0E-01 |

| Metabolite/OE gene | - Ade | - Ade | - Ade | - Ade | + Ade | + Ade | + Ade | + Ade | Mean | Mean | SD | SD | Unpaired t-test | Unpaired t-test | Unpaired t-test |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|--------------------|--------------------|
| | - Ade | - Ade | - Ade | - Ade | + Ade | + Ade | + Ade | + Ade | - Ade | + Ade | - Ade | + Ade | - Ade vs + Ade | mutant vs WT - Ade | mutant vs WT + Ade |
| NAD ⁺ /No | 9.16 | 9.8 | 10.8 | 10.4 | 11.8 | 11.2 | 12.8 | 12.4 | 10.04 | 12.05 | 0.72 | 0.70 | 7.0E-03 | | |
| NAD ⁺ /NMA1 | 11.9 | 14.2 | 13.7 | 14.3 | 15 | 16.75 | 16.3 | 17.3 | 13.53 | 16.34 | 1.11 | 0.98 | 9.4E-03 | 3.1E-03 | 6.0E-04 |

Relative peak area (mean peak area from wild-type cells transformed with the empty vector (No) and grown in the presence of adenine was set at 1 and used to calculate the relative peak areas)

| Metabolite/OE gene | - Ade | - Ade | - Ade | - Ade | + Ade | + Ade | + Ade | + Ade | Mean | Mean | SD | SD | Unpaired t-test | Unpaired t-test | Unpaired t-test |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-----------------|--------------------|--------------------|
| | - Ade | - Ade | - Ade | - Ade | + Ade | + Ade | + Ade | + Ade | - Ade | + Ade | - Ade | + Ade | - Ade vs + Ade | mutant vs WT - Ade | mutant vs WT + Ade |
| ATP/No | 0.9045 | 0.8357 | 0.9054 | 0.9322 | 1.0286 | 1.0092 | 0.9575 | 1.0046 | 0.89 | 1.00 | 0.04 | 0.03 | 7.4E-03 | | |
| ATP/NMA1 | 0.8583 | 0.9072 | 0.9239 | 0.946 | 1.0037 | 1.0309 | 0.9774 | 0.9982 | 0.91 | 1.00 | 0.04 | 0.02 | 8.0E-03 | 6.2E-01 | 9.0E-01 |

| Metabolite/OE gene | - Ade | - Ade | - Ade | - Ade | + Ade | + Ade | + Ade | + Ade | Mean | Mean | SD | SD | Unpaired t-test | Unpaired t-test | Unpaired t-test |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-----------------|--------------------|--------------------|
| | - Ade | - Ade | - Ade | - Ade | + Ade | + Ade | + Ade | + Ade | - Ade | + Ade | - Ade | + Ade | - Ade vs + Ade | mutant vs WT - Ade | mutant vs WT + Ade |
| NAD ⁺ /No | 0.7602 | 0.8133 | 0.8963 | 0.8631 | 0.9793 | 0.9295 | 1.0622 | 1.029 | 0.83 | 1.00 | 0.06 | 0.06 | 7.0E-03 | | |
| NAD ⁺ /NMA1 | 0.9876 | 1.1784 | 1.1369 | 1.1867 | 1.2448 | 1.39 | 1.3527 | 1.4357 | 1.12 | 1.36 | 0.09 | 0.08 | 9.4E-03 | 3.1E-03 | 6.0E-04 |

| |
|--------------|
| p>0.05 |
| 0.05<p>0.01 |
| 0.01<p>0.001 |
| p<0.001 |