Summary

April 24, 2025

Contents

0.0.1 Solution 0

Overall Data

```
Objective value (integral): 11
Vertex/Graph In Out OA
ACETYL COA   1  2   1
ADP          0  1   0
ATP          1  0   0
CO2          1  0   0
CoASH        2  1   0
Fdox         0  2   0
Fdred        2  0   0
H2O          0  3   0
HCO3-        1  0   0
NAD+         0  1   0
NADH         1  0   0
NADP+        0  2   0
NADPH        2  0   0
Pi           0  1   0
hplus        6  0   0
```
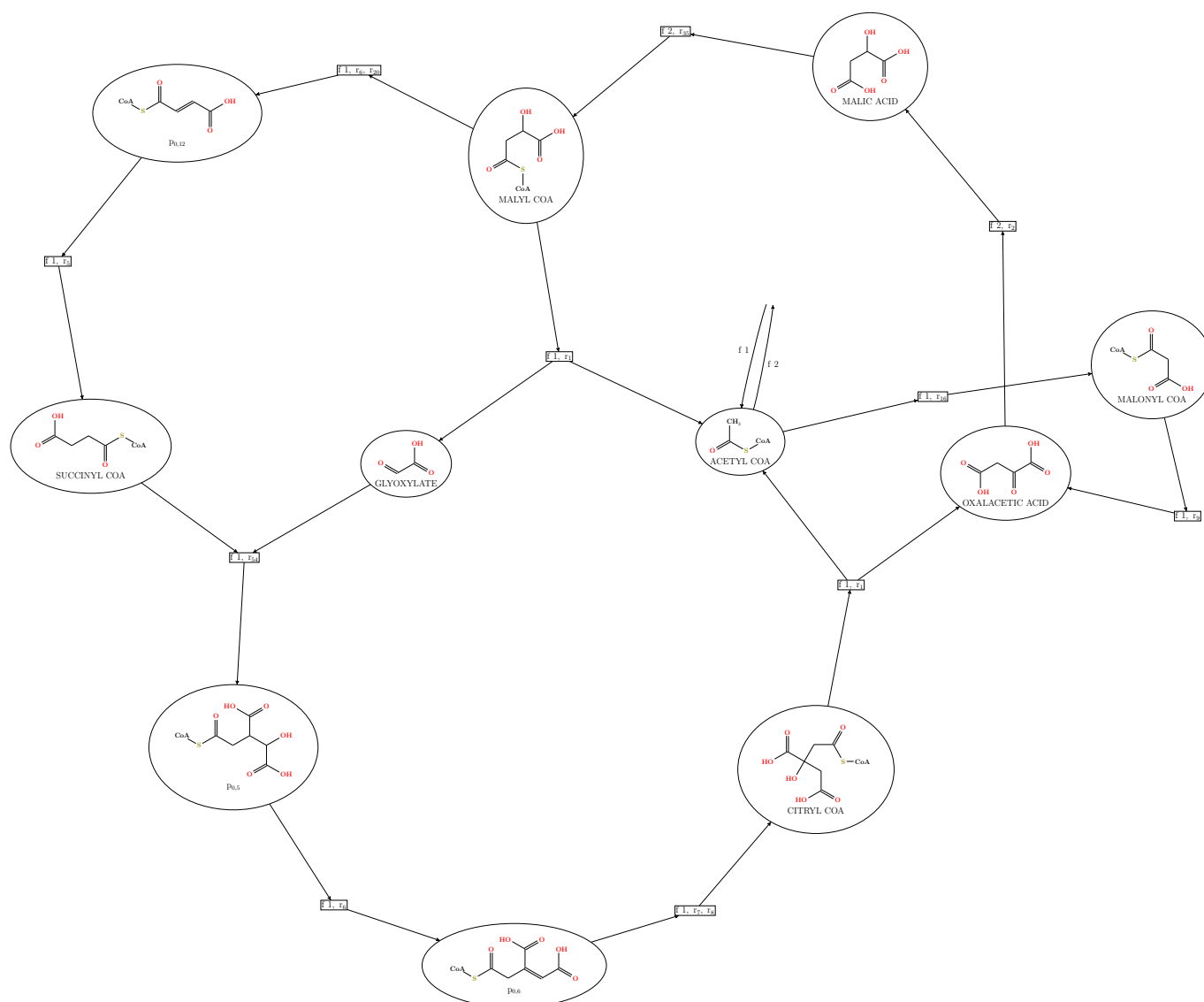
Filtered Graph

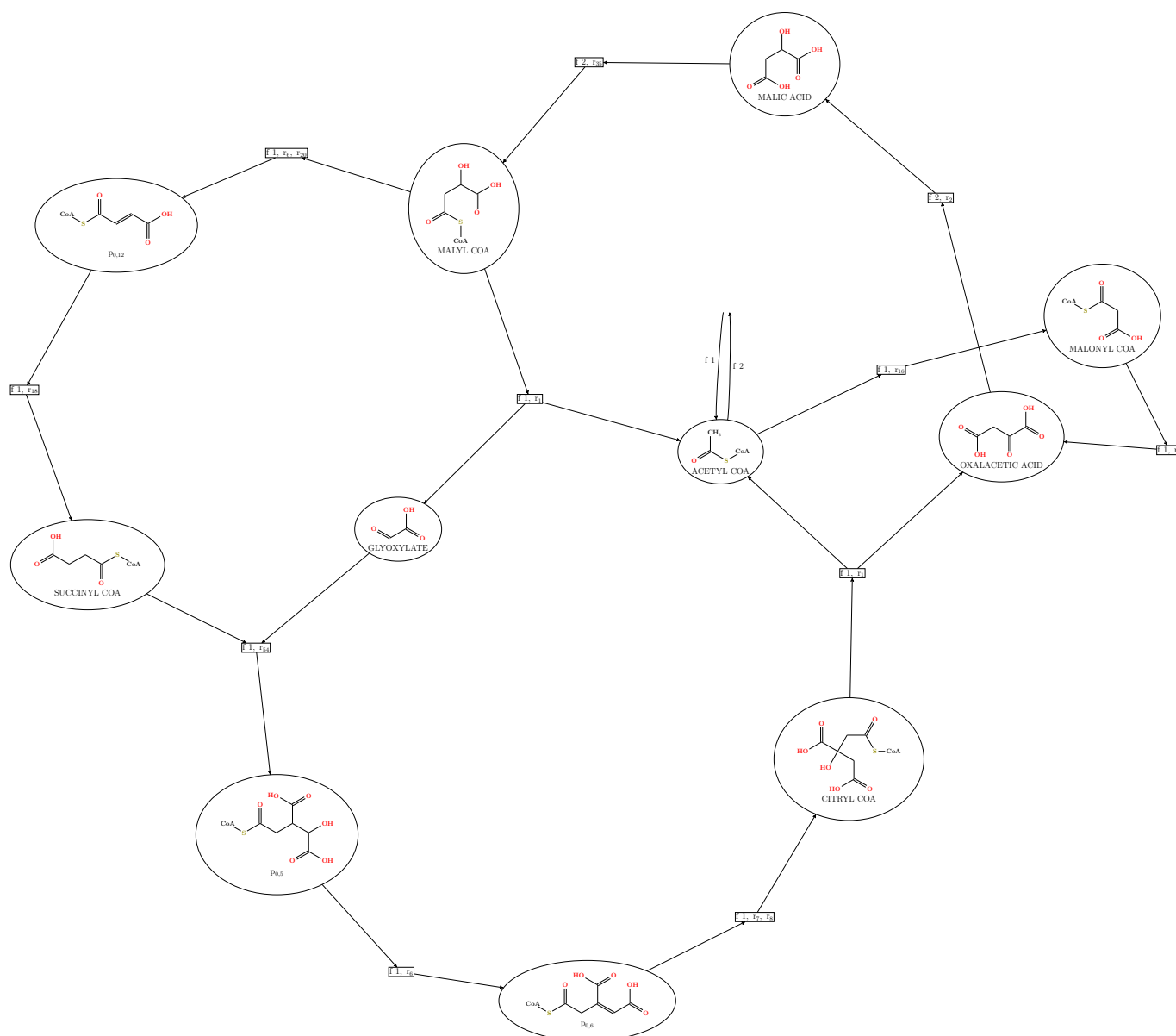File: out/024_dg_0_11100_f_0_0_filt

0.0.2   Solution 1

Overall Data

```
Objective value (integral): 11
Vertex/Graph In Out OA
ACETYL COA   1   2   1
ADP          0   1   0
ATP          1   0   0
CO2          1   0   0
CoASH        1   0   0
Fdox         0   2   0
Fdred        2   0   0
H2O          0   3   0
HCO3-        1   0   0
NADP+        0   3   0
NADPH        3   0   0
Pi           0   1   0
```

```
hplus          6   0    0
```

Filtered Graph

File: out/027_dg_0_11100_f_0_1_filt

0.0.3 Solution 2

Overall Data

```
Objective value (integral): 11
Vertex/Graph In Out OA
ACETYL COA   1   2    1
ADP          0   1    0
AMP          0   2    0
ATP          3   0    0
CO2          1   0    0
CoASH        1   0    0
Fdox         0   2    0
Fdred        2   0    0
```
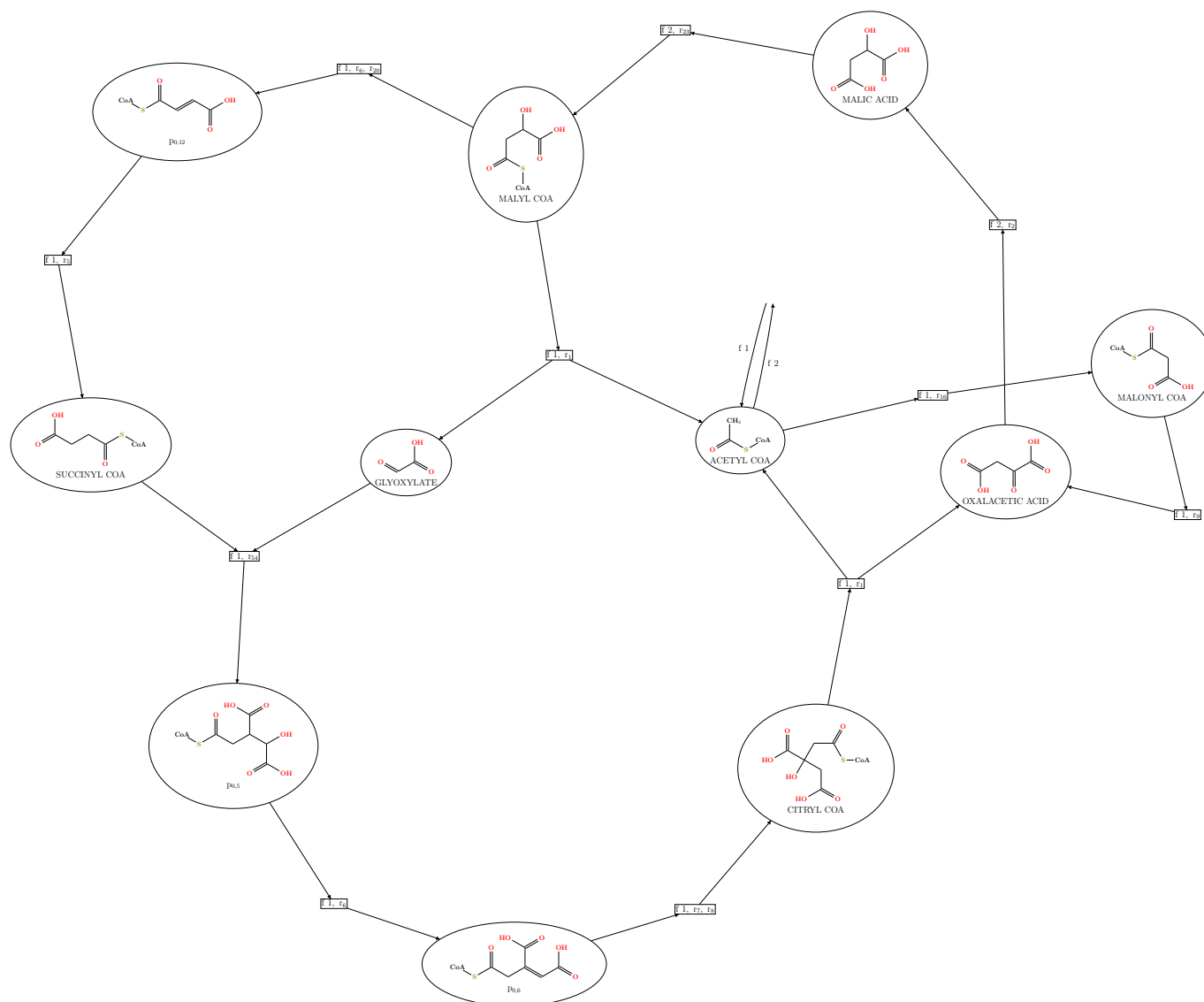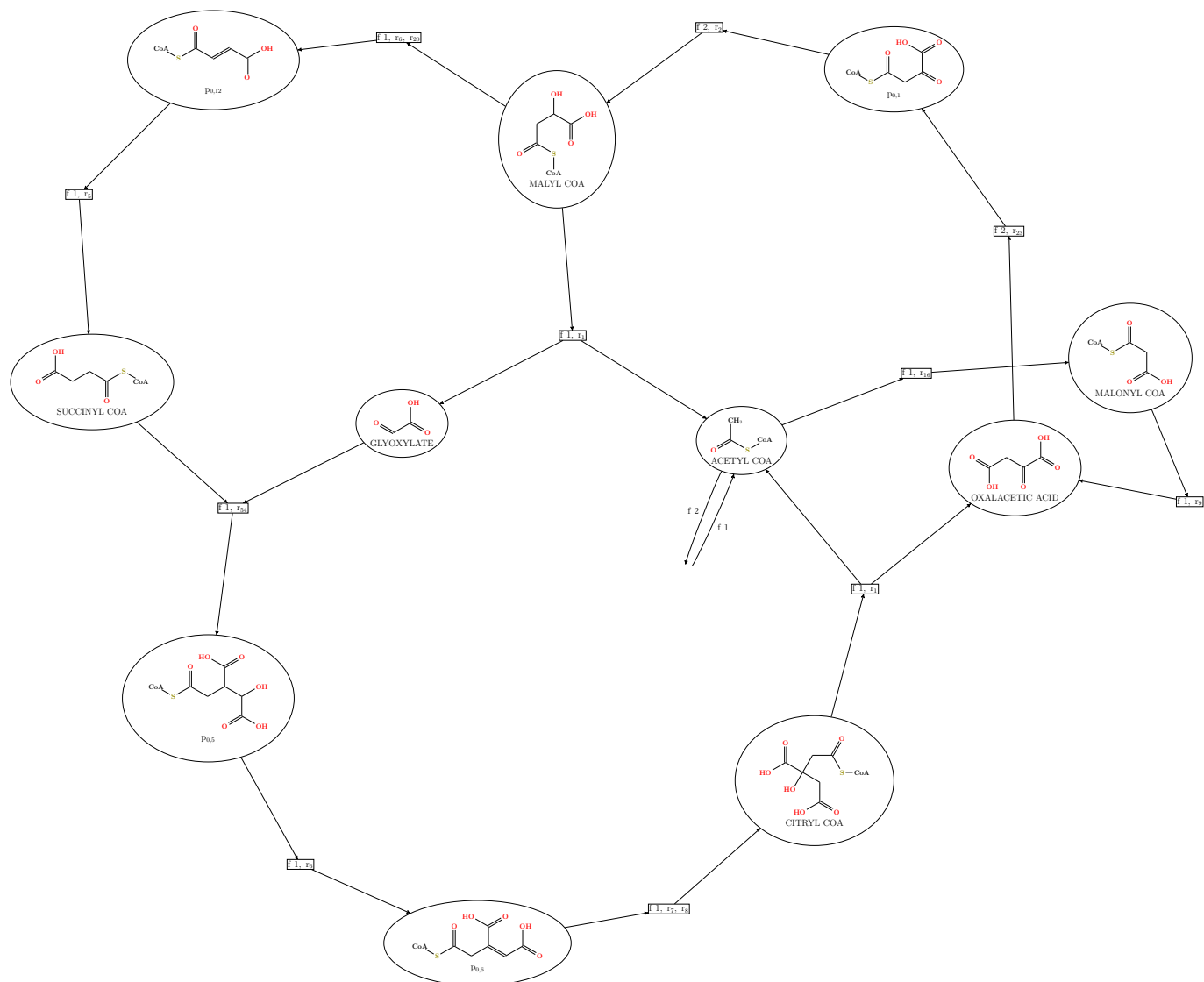
```
H2O         0  1   0
HCO3-       1  0   0
NAD+        0  1   0
NADH        1  0   0
NADP+       0  2   0
NADPH       2  0   0
PPi         0  2   0
Pi          0  1   0
hplus       6  0   0
```

Filtered Graph

File: `out/030_dg_0_11100_f_0_2_filt`

0.0.4   Solution 3

Overall Data

```
Objective value (integral): 11
Vertex/Graph In Out OA
ACETYL COA   1   2    1
```

ADP	0	1	0
AMP	0	2	0
ATP	3	0	0
CO2	1	0	0
CoASH	1	0	0
Fdox	0	2	0
Fdred	2	0	0
H2O	0	1	0
HCO3-	1	0	0
NAD+	0	1	0
NADH	1	0	0
NADP+	0	2	0
NADPH	2	0	0
PPi	0	2	0
Pi	0	1	0
hplus	6	0	0

Filtered Graph

File: out/035_dg_0_11100_f_0_3_filt

0.0.5   Solution 4

Overall Data

```
Objective value (integral): 11
Vertex/Graph In Out OA
ACETYL COA   1  2   1
ADP          0  3   0
ATP          3  0   0
CO2          1  0   0
CoASH        1  0   0
Fdox         0  2   0
Fdred        2  0   0
H2O          0  1   0
HCO3-        1  0   0
NAD+         0  1   0
NADH         1  0   0
NADP+        0  2   0
NADPH        2  0   0
Pi           0  3   0
hplus        6  0   0
```
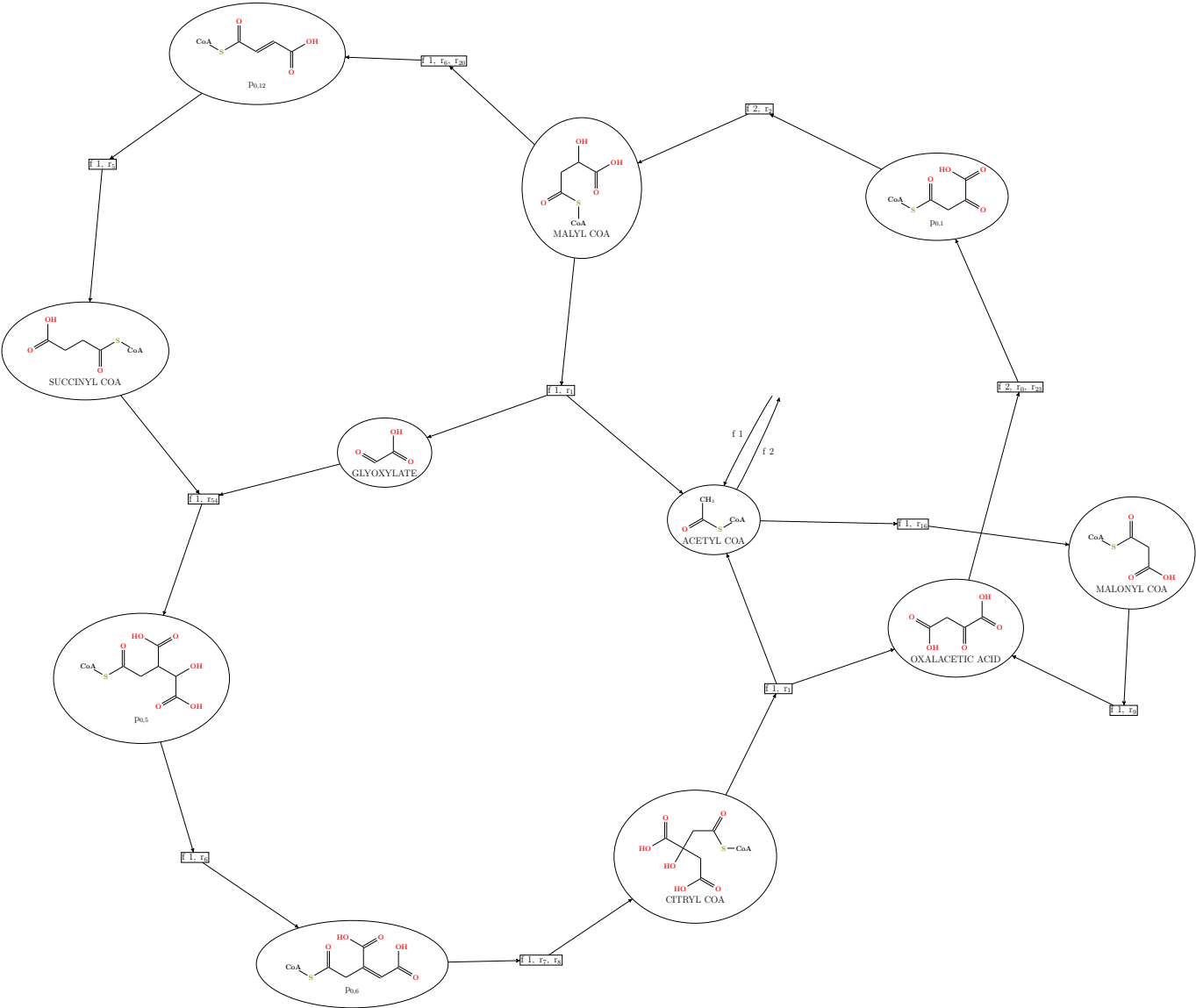
Filtered Graph

File: `out/038_dg_0_11100_f_0_4_filt`