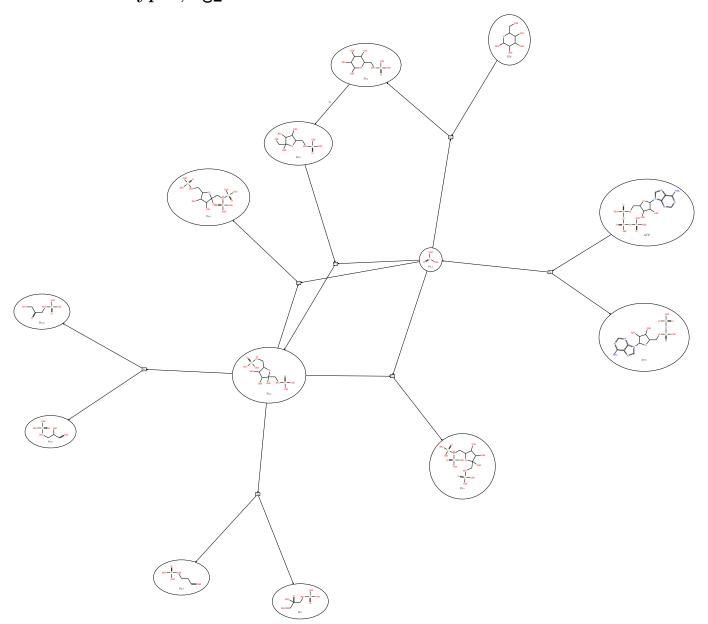
Summary

September 22, 2016

Contents

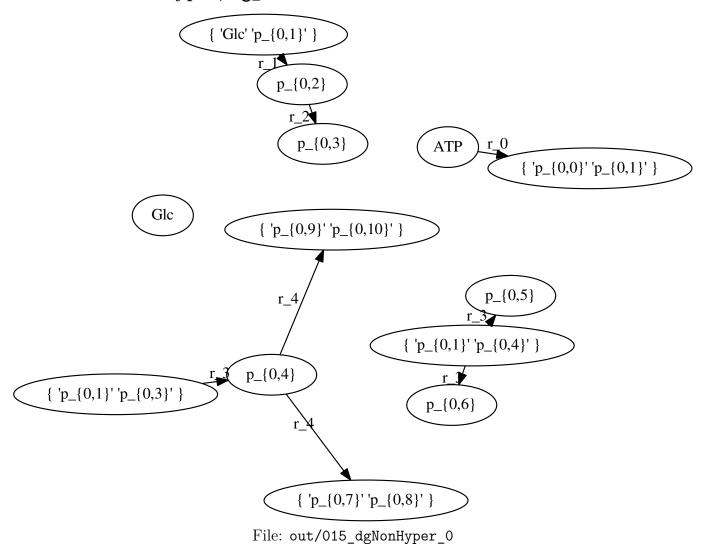
| | 0.0.1 DG Hyper, dg_0 | 2 |
|------|--|----|
| | 0.0.2 DG NonHyper, dg_0 | 3 |
| 0.1 | Input Molecules | 3 |
| | 0.1.1 Glc | 3 |
| | 0.1.2 ATP | 4 |
| 0.2 | Rule | 1 |
| 0.3 | Product Molecules | 5 |
| 0.4 | Derivations | 5 |
| 0.5 | Derivation 4, $\{ATP\} \rightarrow \{p_{0,0}, p_{0,1}\}$) | 1 |
| | 0.5.1 Match | 6 |
| | 0.5.2 Match | 7 |
| 0.6 | Derivation 6, $\{Glc, p_{0,1}\} \rightarrow \{p_{0,2}\}\$ | 7 |
| | 0.6.1 Match | 8 |
| | 0.6.2 Match | 8 |
| 0.7 | Derivation 8, $\{p_{0,2}\} \rightarrow \{p_{0,3}\}$) | 8 |
| | 0.7.1 Match | Ĝ |
| 0.8 | Derivation 10, $\{p_{0,1}, p_{0,3}\} \rightarrow \{p_{0,4}\}$) | Ĝ |
| | 0.8.1 Match | 6 |
| | 0.8.2 Match | 10 |
| 0.9 | Derivation 12, $\{p_{0,1}, p_{0,4}\} \rightarrow \{p_{0,5}\}$) | 10 |
| | 0.9.1 Match | 10 |
| | 0.9.2 Match | 11 |
| 0.10 | Derivation 14, $\{p_{0,1}, p_{0,4}\} \rightarrow \{p_{0,6}\}$) | 11 |
| | 0.10.1 Match | 11 |
| | 0.10.2 Match | 12 |
| 0.11 | Derivation 17, $\{p_{0,4}\} \rightarrow \{p_{0,7}, p_{0,8}\}$) | 12 |
| | 0.11.1 Match | 13 |
| 0.12 | Derivation 20, $\{p_{0,4}\} \rightarrow \{p_{0,9}, p_{0,10}\}$) | 13 |
| | 0.12.1 Match | 14 |

0.0.1 DG Hyper, dg_0



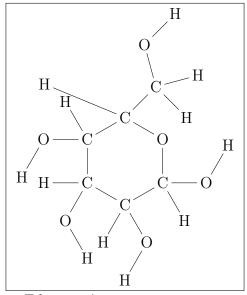
File: out/014_dg_0_1110

0.0.2 DG NonHyper, dg_0

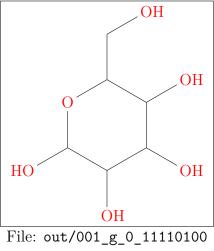


0.1 Input Molecules

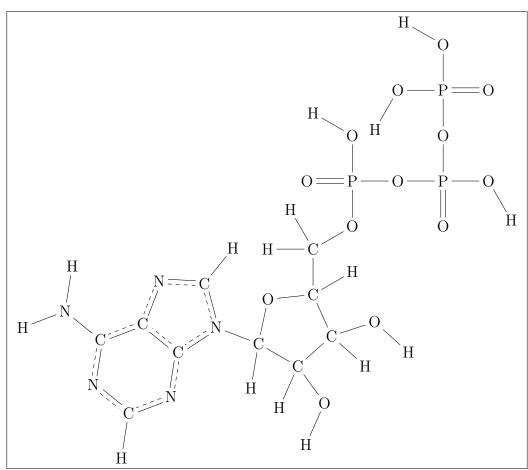
0.1.1 Glc



File: out/001_g_0_10100000



0.1.2 ATP

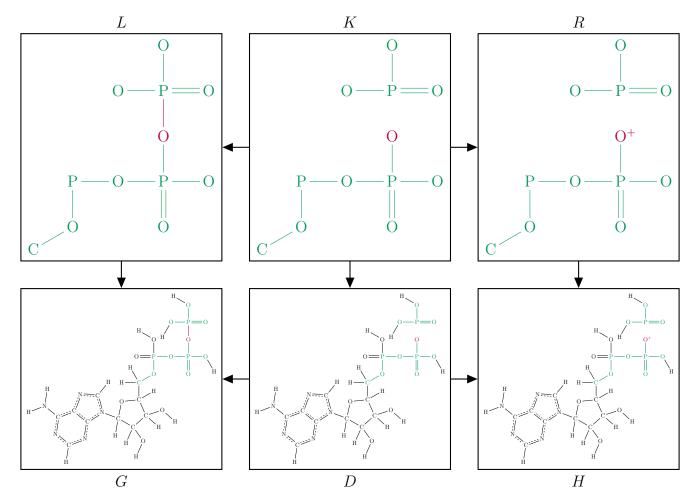


File: out/002_g_1_10100000

File: out/002_g_1_11110100

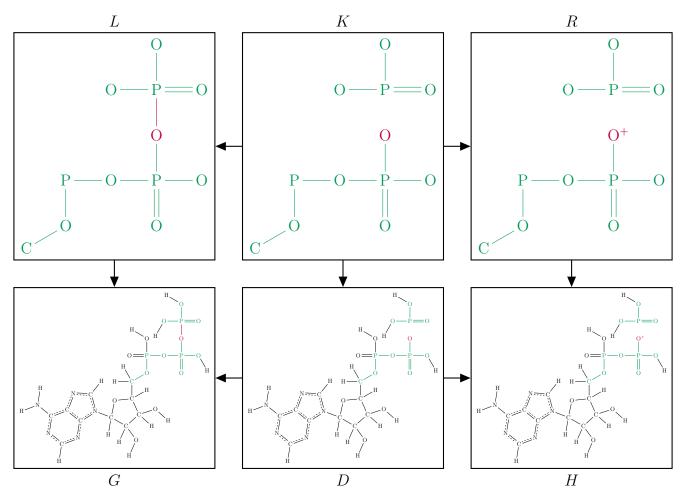
- 0.2 Rule
- 0.3 Product Molecules
- 0.4 Derivations
- **0.5** Derivation 4, {ATP} -> $\{p_{0,0}, p_{0,1}\}$)

0.5.1 Match



Files: out/018_r_36_10100000_0_{derL,derK,derR} Files: out/019_r_36_10100000_0_{derG,derD,derH}

0.5.2 Match

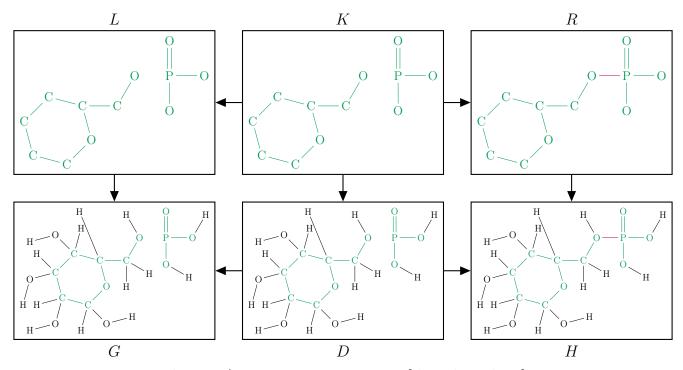


Files: out/020_r_36_10100000_1_{derL,derK,derR} Files: out/021_r_36_10100000_1_{derG,derD,derH}

0.6 Derivation 6, $\{Glc, p_{0,1}\} \rightarrow \{p_{0,2}\}\)$

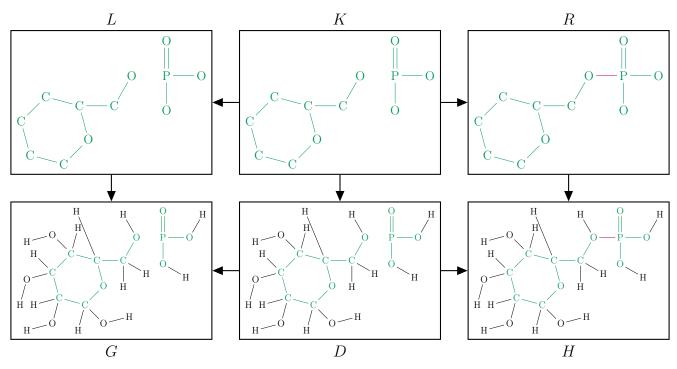
```
|{ e in outEdges(4) | label(e) in { '-' } }| = 2
|{ e in outEdges(1) | label(e) in { '-' } }| = 2
```

0.6.1 Match



Files: out/024_r_48_10100000_0_{derL,derK,derR} Files: out/025_r_48_10100000_0_{derG,derD,derH}

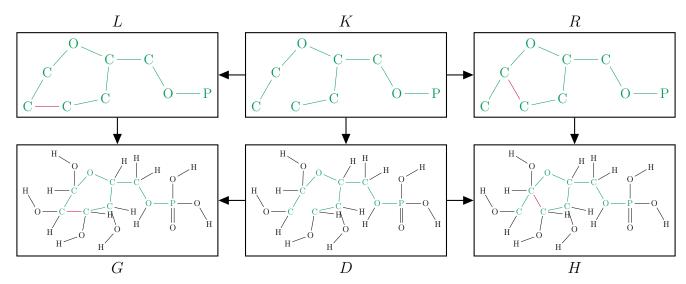
0.6.2 Match



Files: out/026_r_48_10100000_1_{derL,derK,derR} Files: out/027_r_48_10100000_1_{derG,derD,derH}

0.7 Derivation 8, $\{p_{0,2}\} \rightarrow \{p_{0,3}\}$)

0.7.1 Match

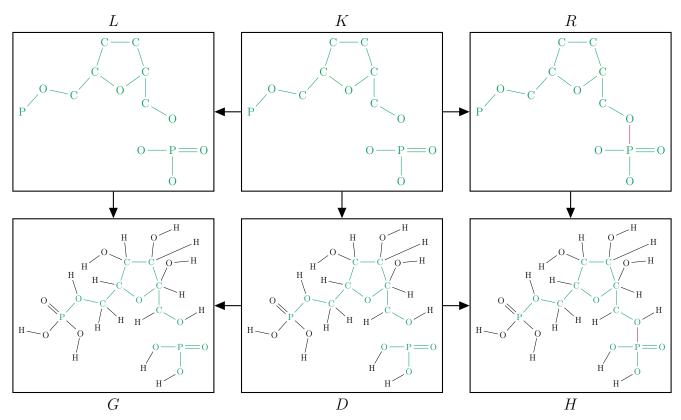


Files: out/030_r_55_10100000_0_{derL,derK,derR} Files: out/031_r_55_10100000_0_{derG,derD,derH}

0.8 Derivation 10, $\{p_{0,1}, p_{0,3}\} \rightarrow \{p_{0,4}\}$)

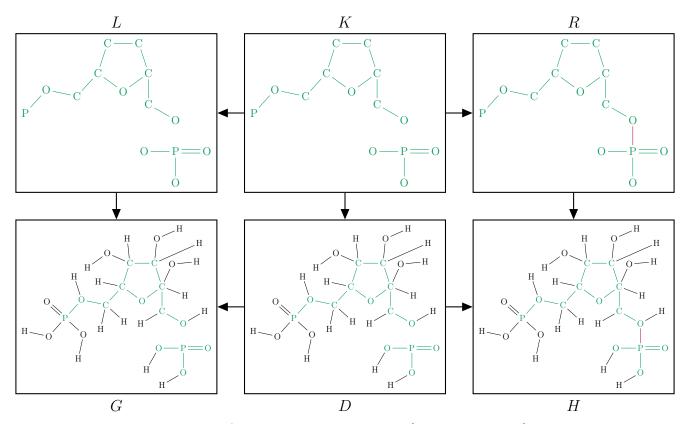
|{ e in outEdges(1) | label(e) in { '-' } }| = 2

0.8.1 Match



Files: $out/034_r_63_10100000_0_\{derL,derK,derR\}$ Files: $out/035_r_63_10100000_0_\{derG,derD,derH\}$

0.8.2 Match

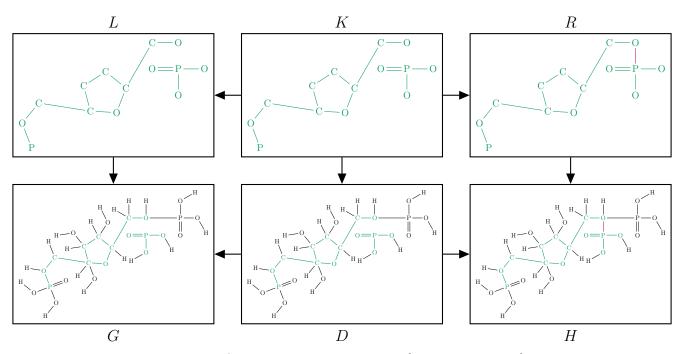


Files: $out/036_r_63_10100000_1_\{derL,derK,derR\}$ Files: $out/037_r_63_10100000_1_\{derG,derD,derH\}$

0.9 Derivation 12, $\{p_{0,1}, p_{0,4}\} \rightarrow \{p_{0,5}\}$)

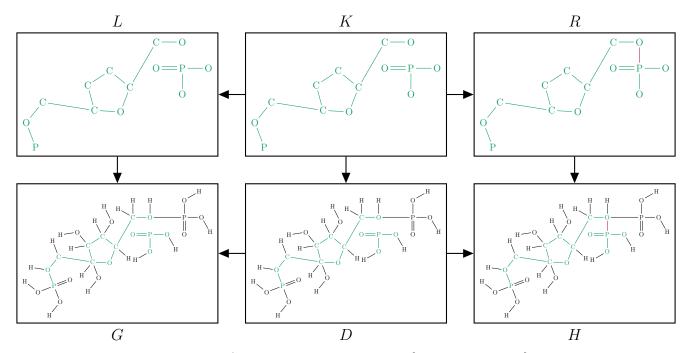
|{ e in outEdges(1) | label(e) in { '-' } }| = 2

0.9.1 Match



Files: $out/040_r_77_10100000_0_{derL,derK,derR}$

0.9.2 Match

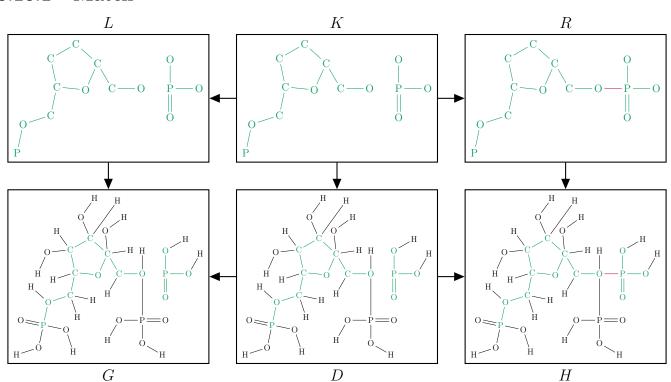


 $\label{eq:files:out/042_r_77_10100000_1_{derL,derK,derR}} Files: out/043_r_77_10100000_1_{derG,derD,derH}$

0.10 Derivation 14, $\{p_{0,1}, p_{0,4}\} \rightarrow \{p_{0,6}\}$)

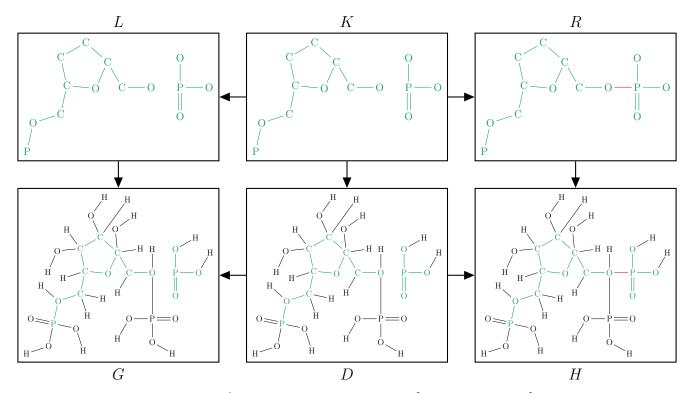
|{ e in outEdges(1) | label(e) in { '-' } }| = 2

0.10.1 Match



Files: out/046_r_115_10100000_0_{{derL,derK,derR}} Files: out/047_r_115_10100000_0_{{derG,derD,derH}}

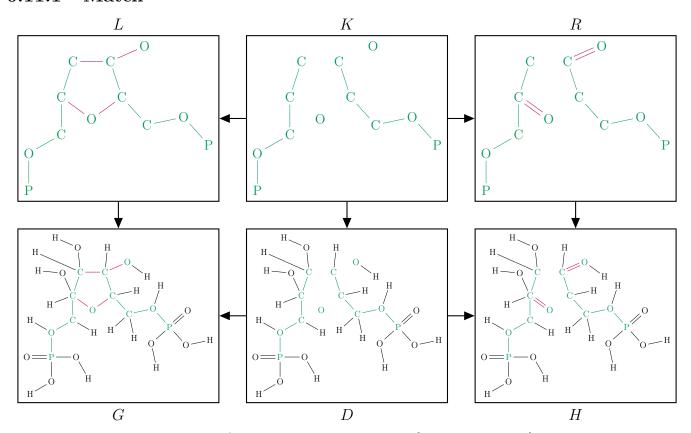
0.10.2 Match



Files: out/048_r_115_10100000_1_{derL,derK,derR} Files: out/049_r_115_10100000_1_{derG,derD,derH}

0.11 Derivation 17, $\{p_{0,4}\} \rightarrow \{p_{0,7}, p_{0,8}\}$)

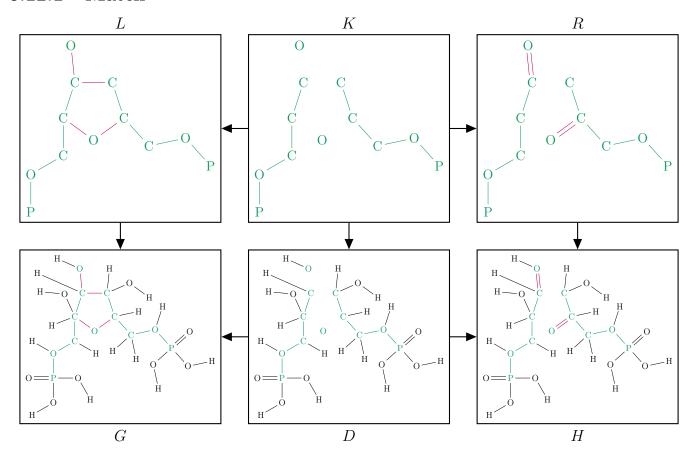
0.11.1 Match



Files: out/052_r_151_10100000_0_{derL,derK,derR} Files: out/053_r_151_10100000_0_{derG,derD,derH}

0.12 Derivation 20, $\{p_{0,4}\} \rightarrow \{p_{0,9}, p_{0,10}\}$)

0.12.1 Match



Files: out/056_r_163_10100000_0_{derL,derK,derR} Files: out/057_r_163_10100000_0_{derG,derD,derH}