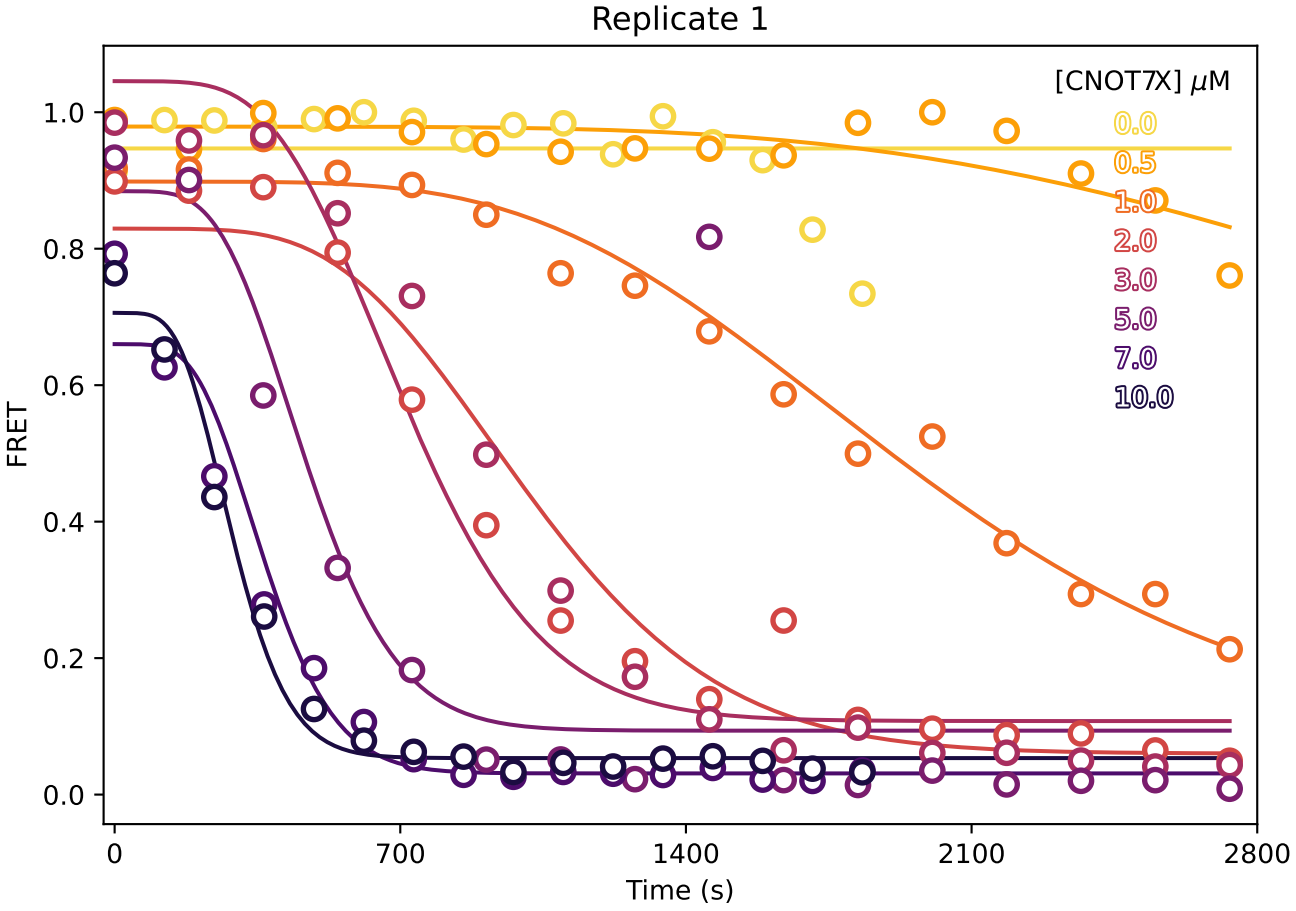
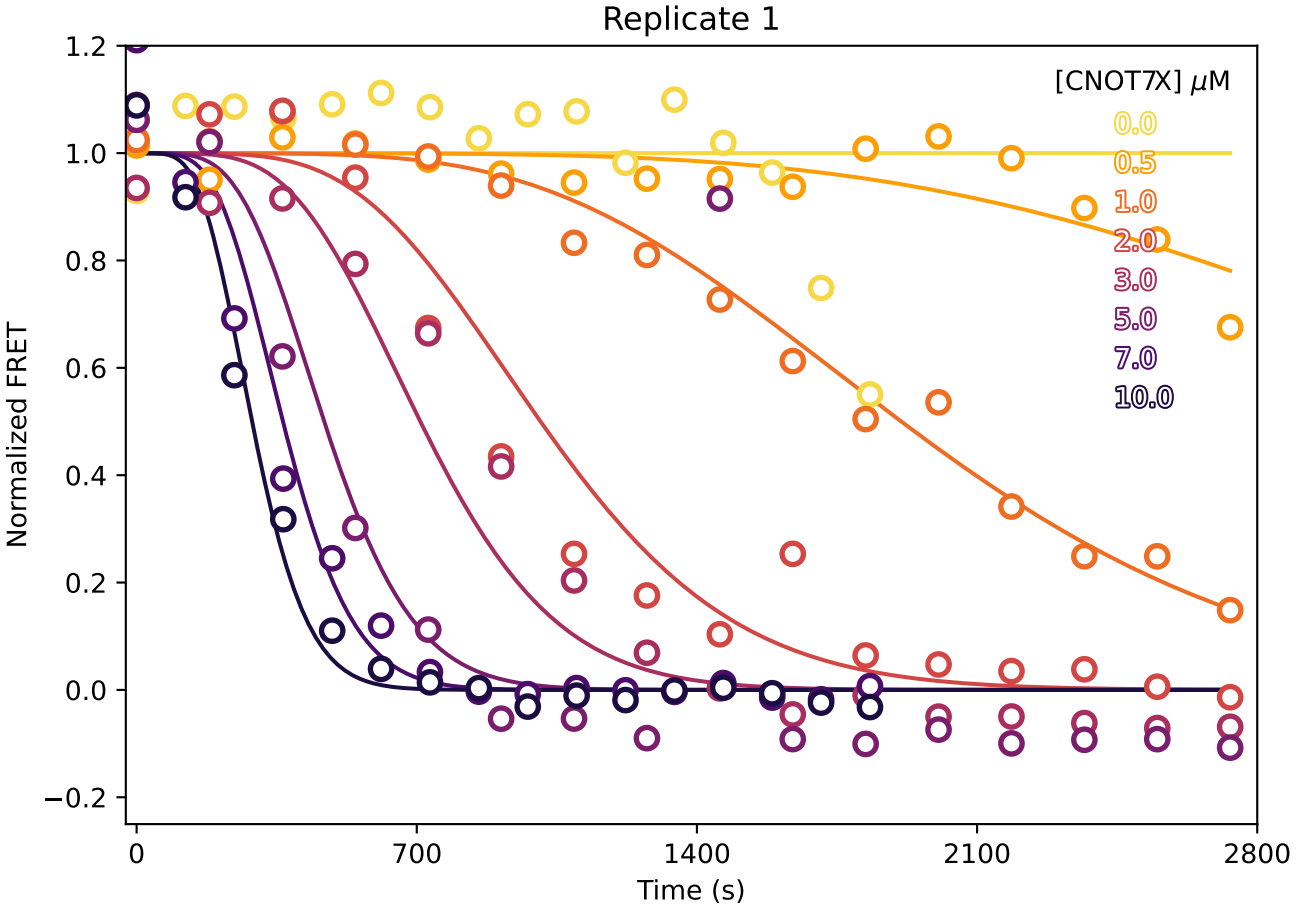
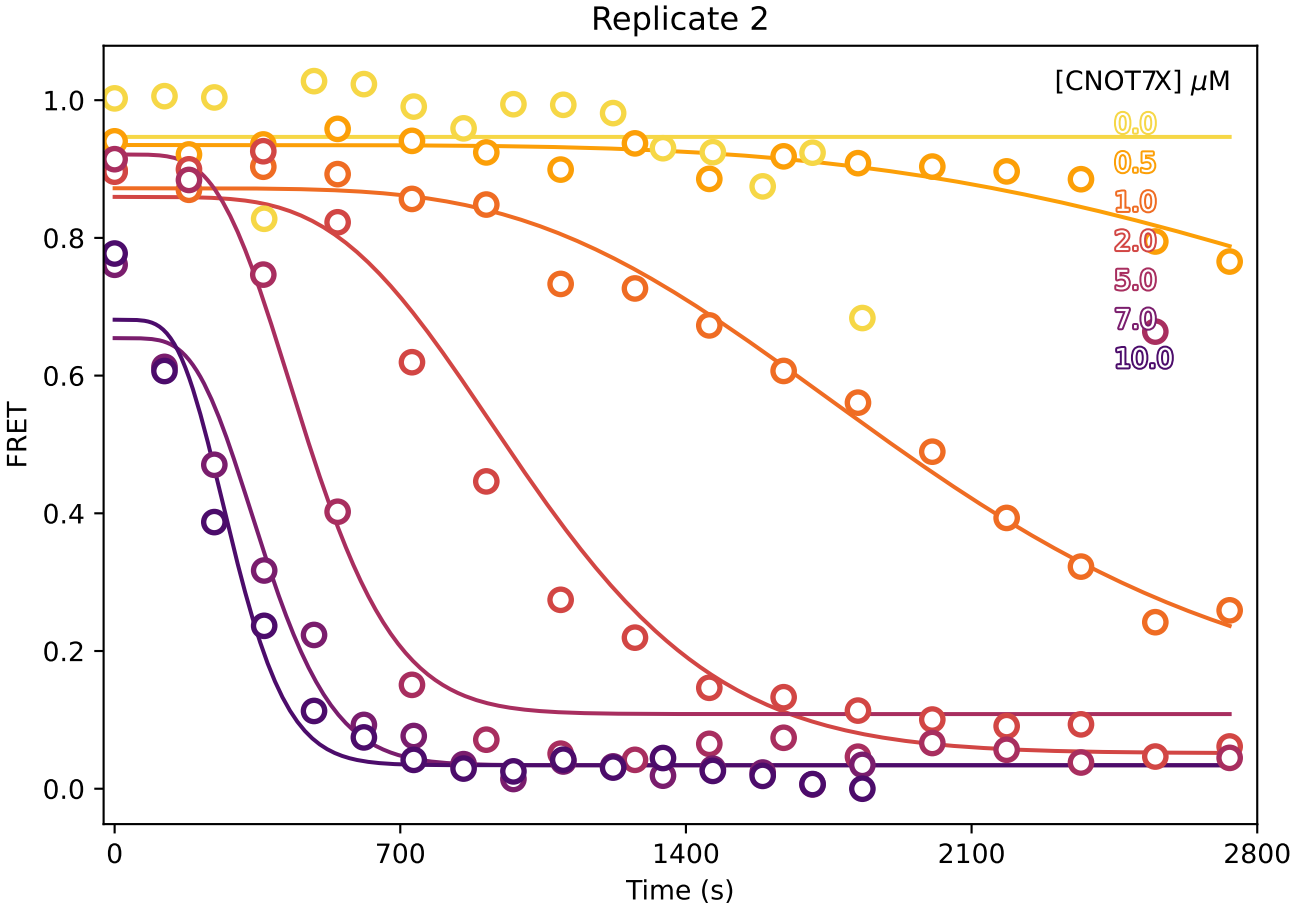
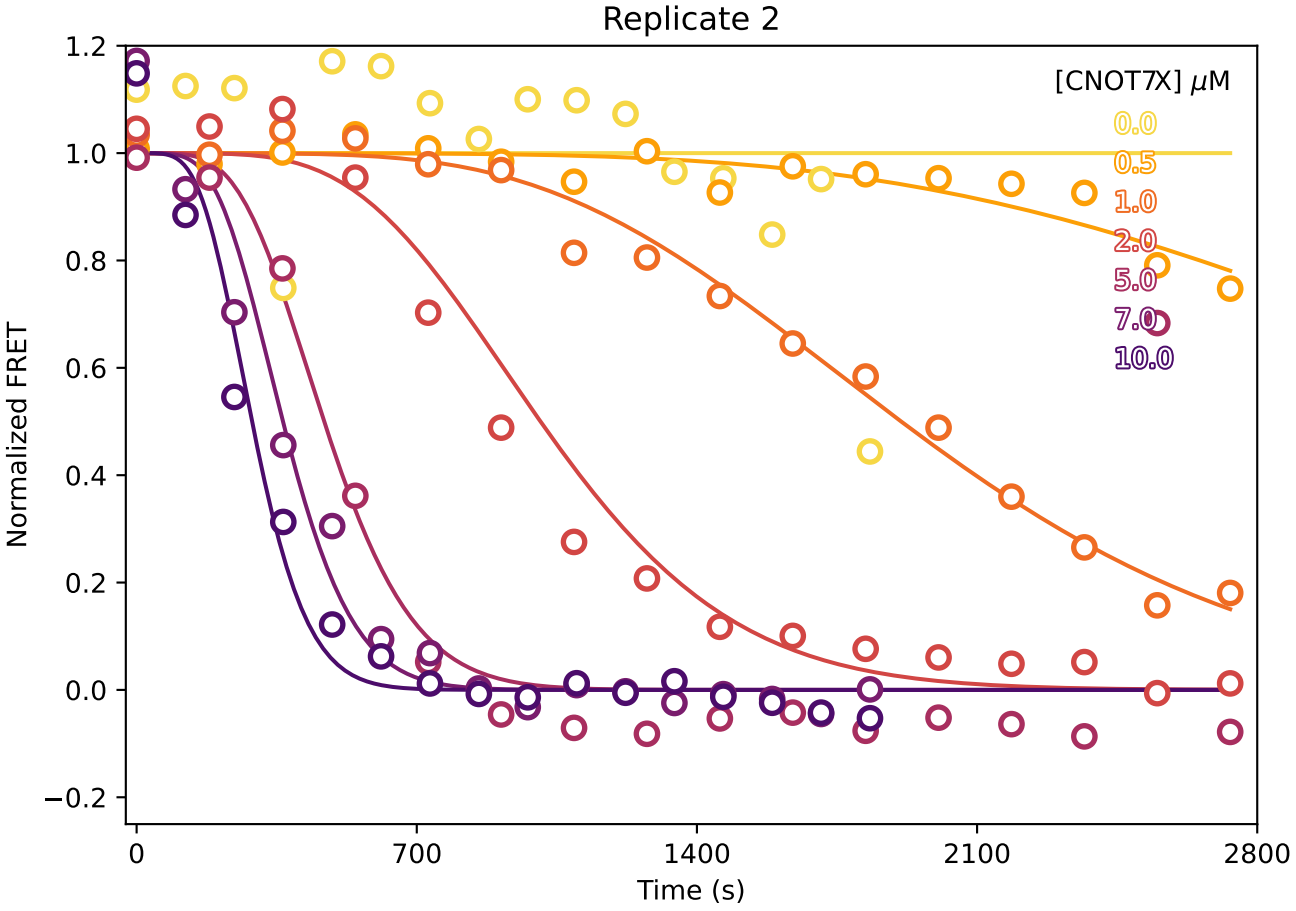
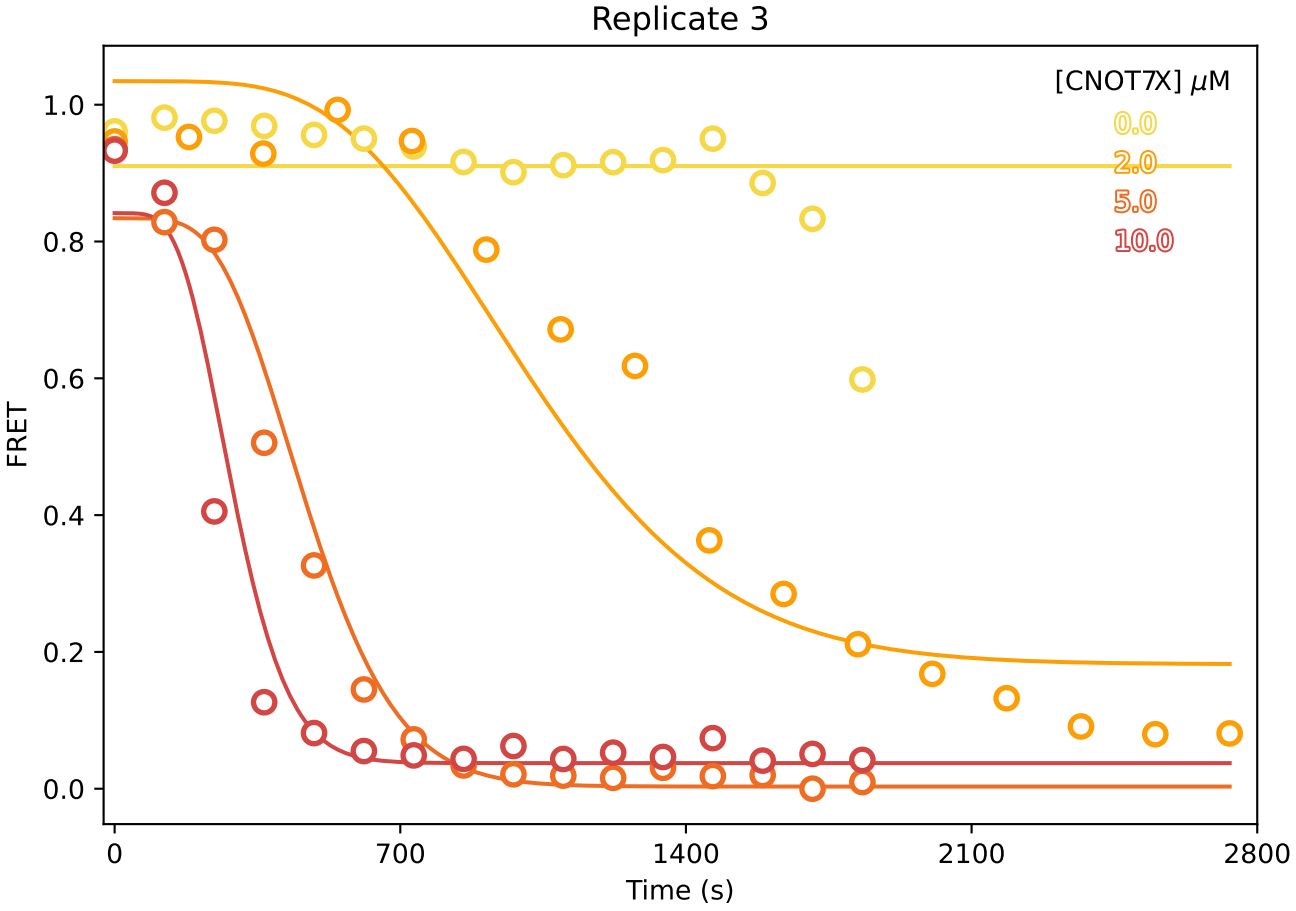
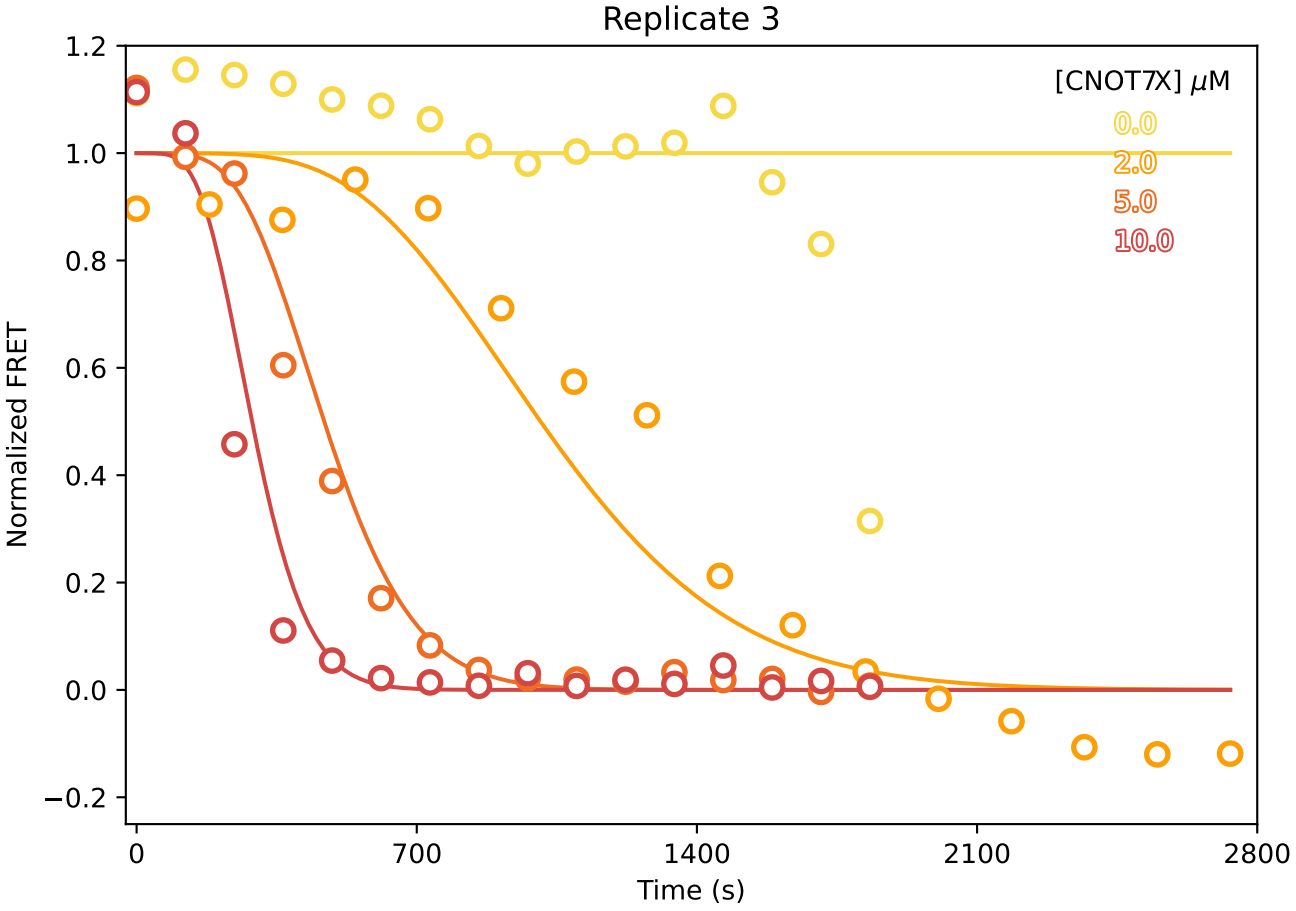

Replicate 1
[CNOT7X] μM
0.0
0.5
1.0
2.0
3.0
5.0
7.0
10.0
FRET
1.0
0.8
0.6
0.4
0.2
0.0
0
700
1400
2100
2800
Time (s)

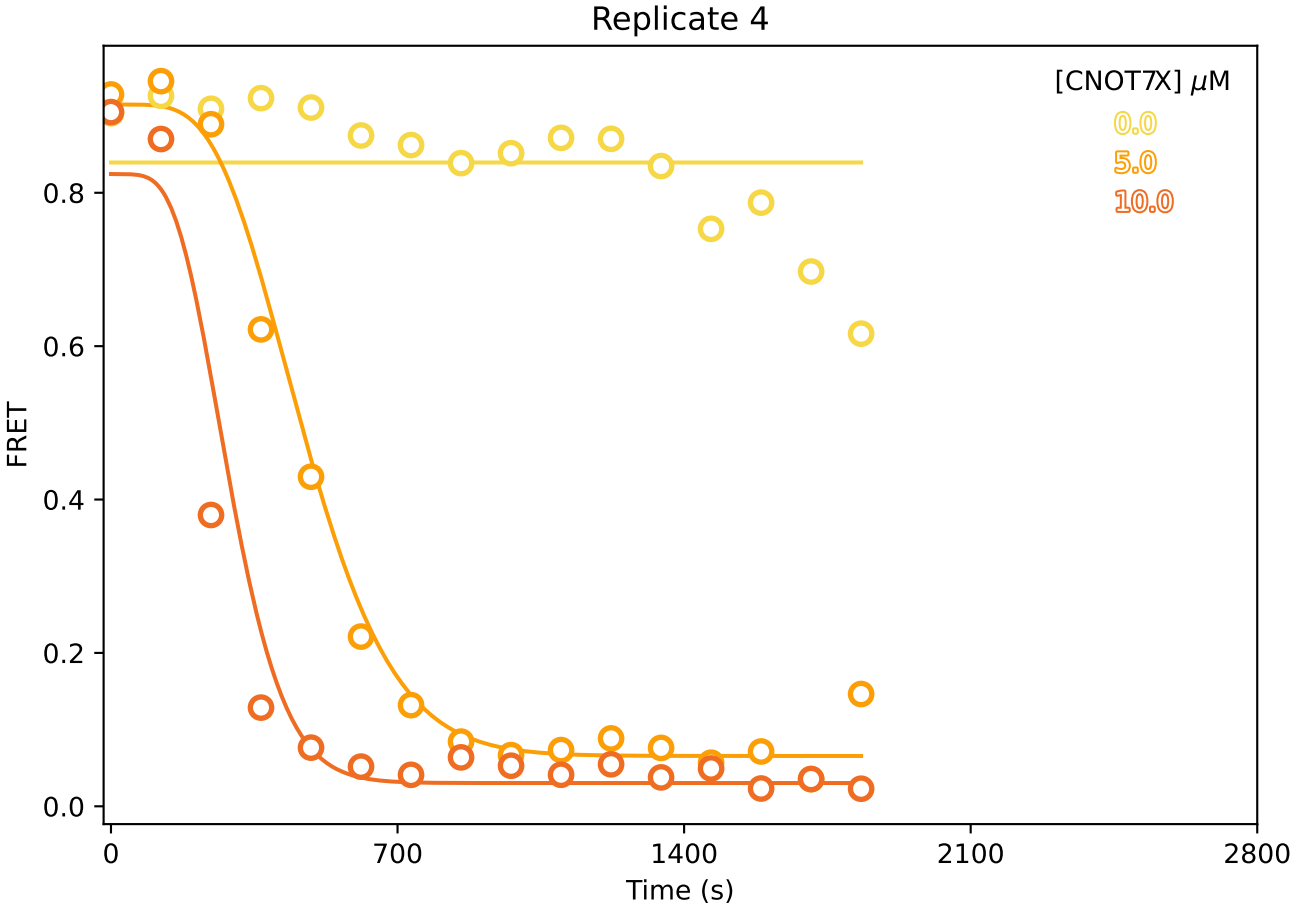

Replicate 1
[CNOT7X] μM
0.0
0.5
1.0
2.0
3.0
5.0
7.0
10.0
Normalized FRET
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
0
700
1400
2100
2800
Time (s)

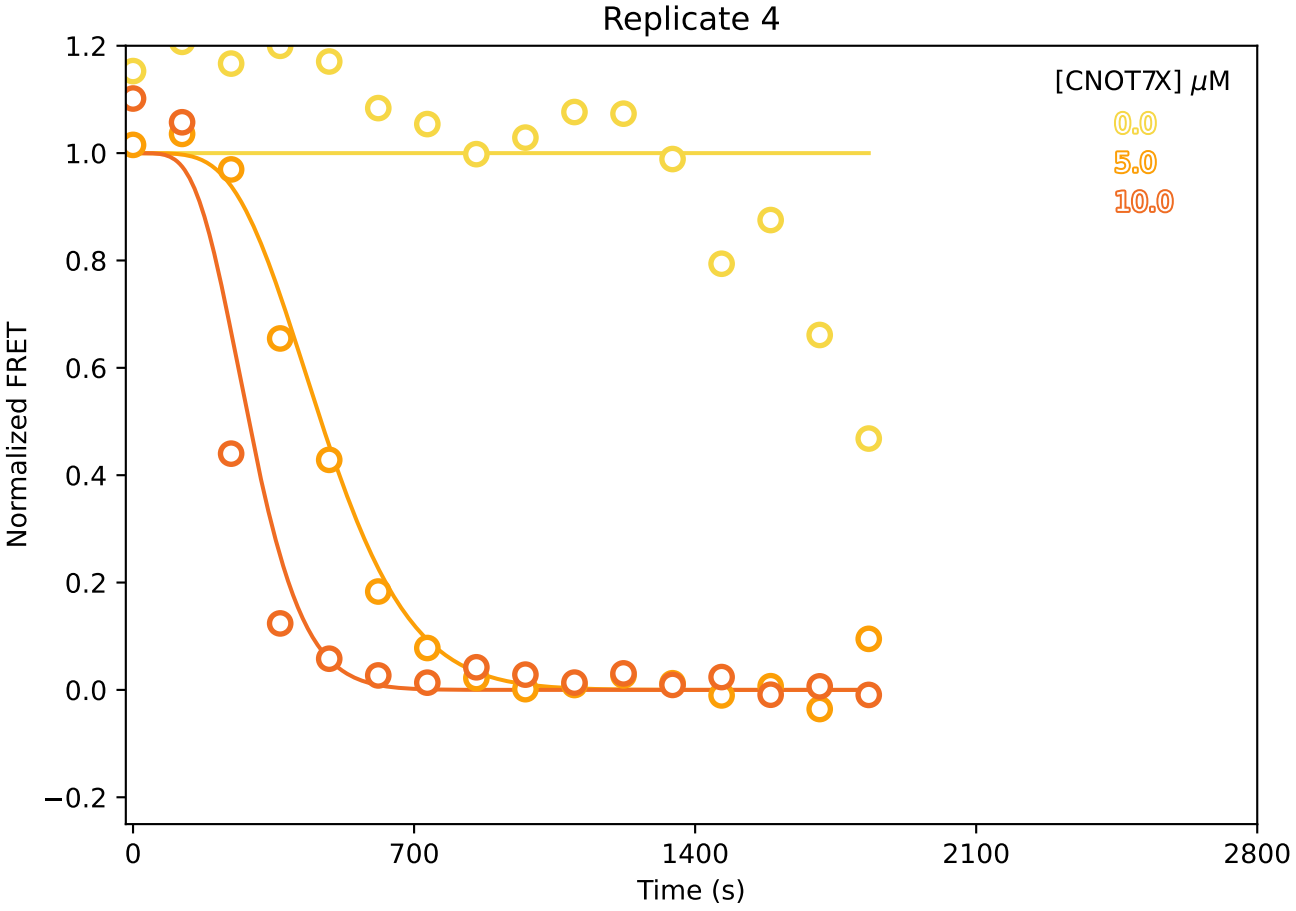

Replicate 2
[CNOT7X] μM
0.0
0.5
1.0
2.0
5.0
7.0
10.0
FRET
1.0
0.8
0.6
0.4
0.2
0.0
0
700
1400
2100
2800
Time (s)

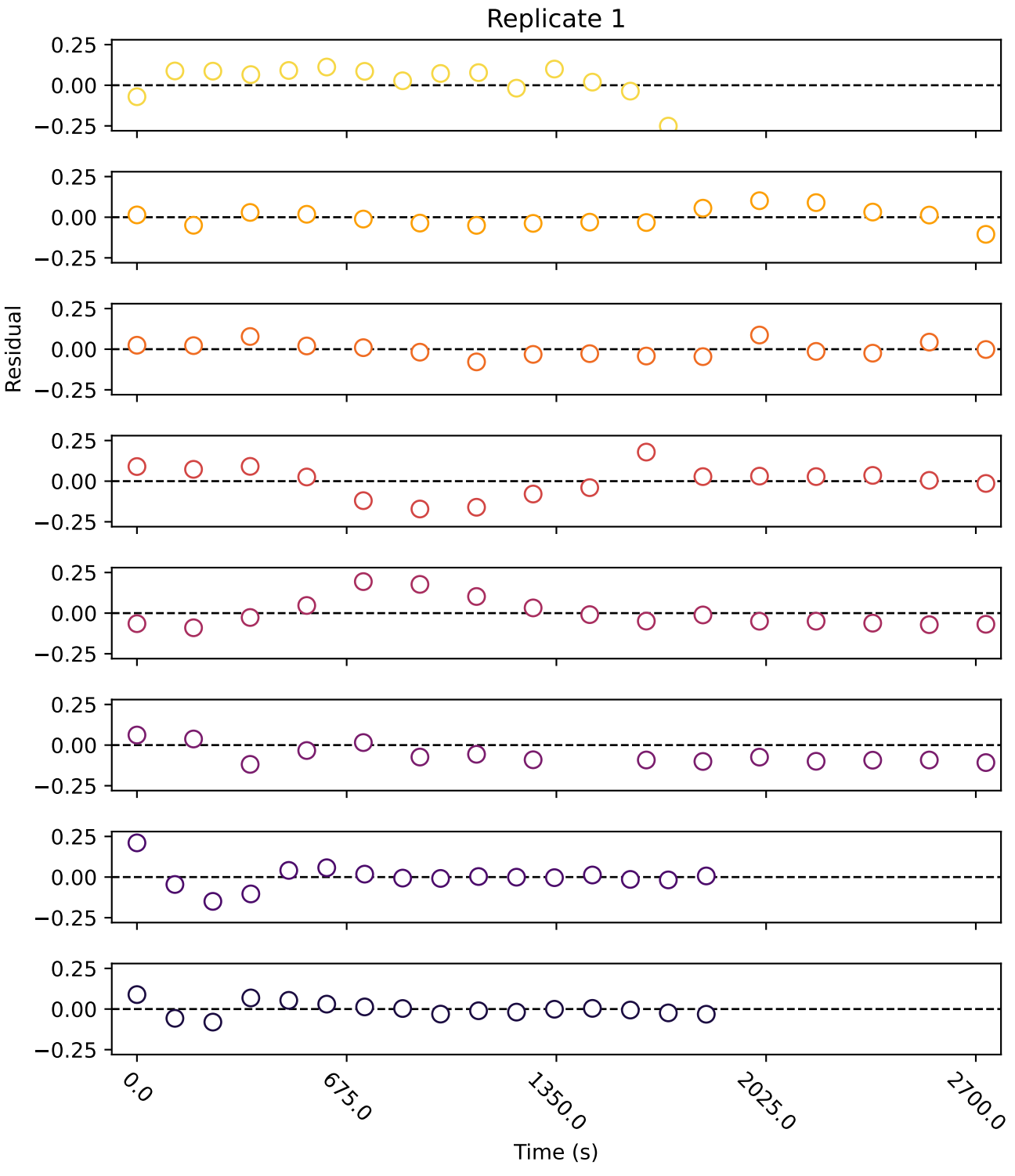

Replicate 2
[CNOT7X] μM
0.0
0.5
1.0
2.0
5.0
7.0
10.0
Normalized FRET
Time (s)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
0
700
1400
2100
2800

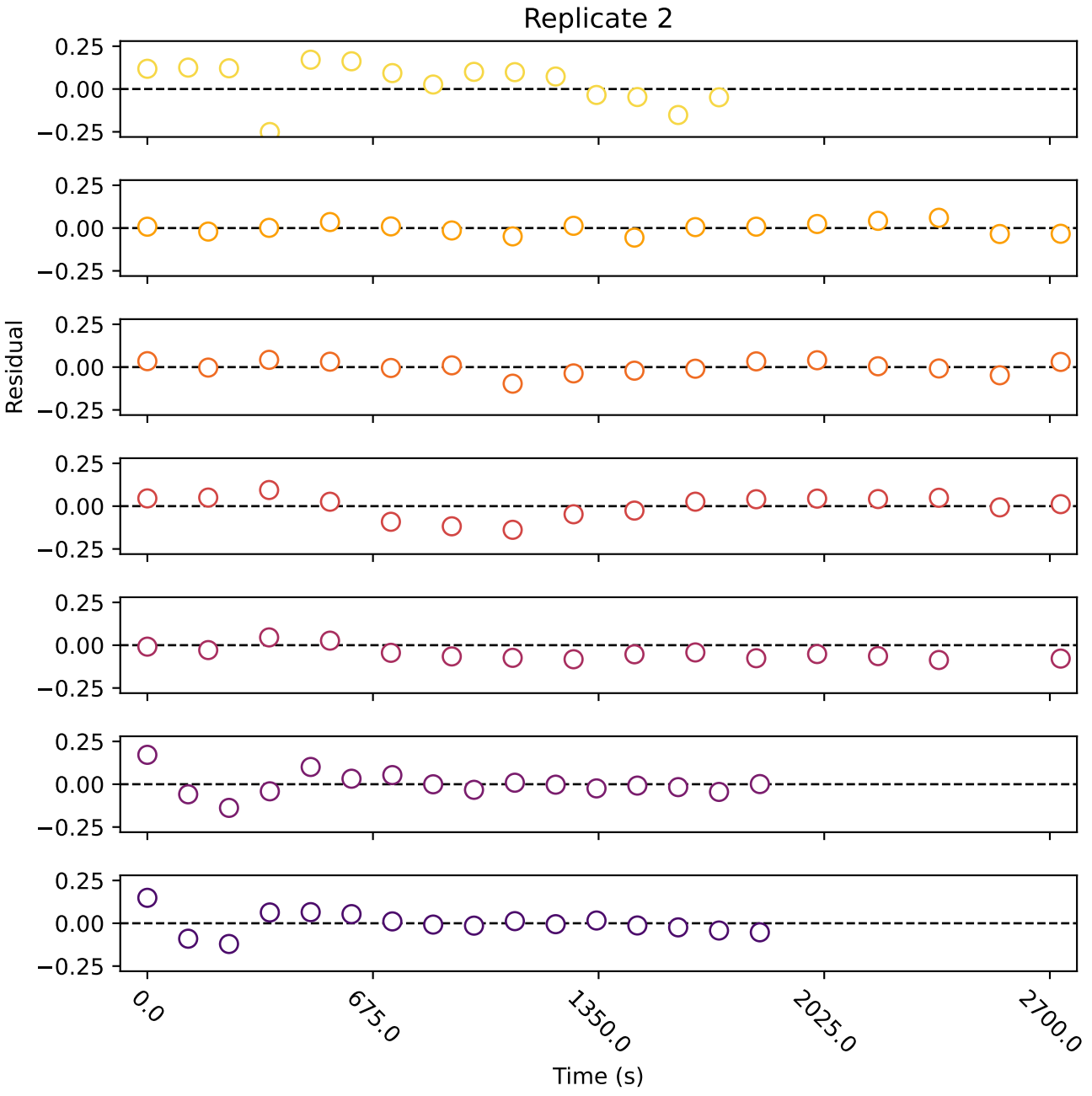

Replicate 3
[CNOT7X] μM
0.0
2.0
5.0
10.0
FRET
1.0
0.8
0.6
0.4
0.2
0.0
0
700
1400
2100
2800
Time (s)

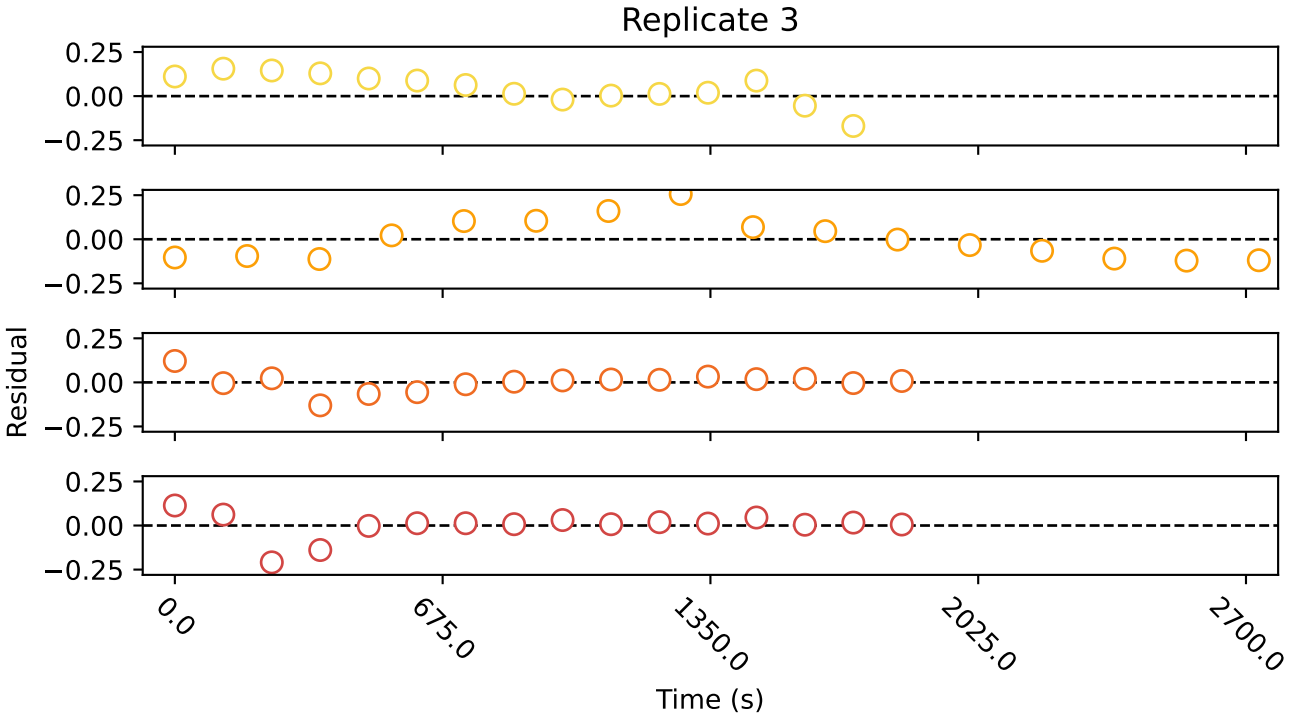

Replicate 3
[CNOT7X] μM
0.0
2.0
5.0
10.0
Normalized FRET
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
0
700
1400
2100
2800
Time (s)

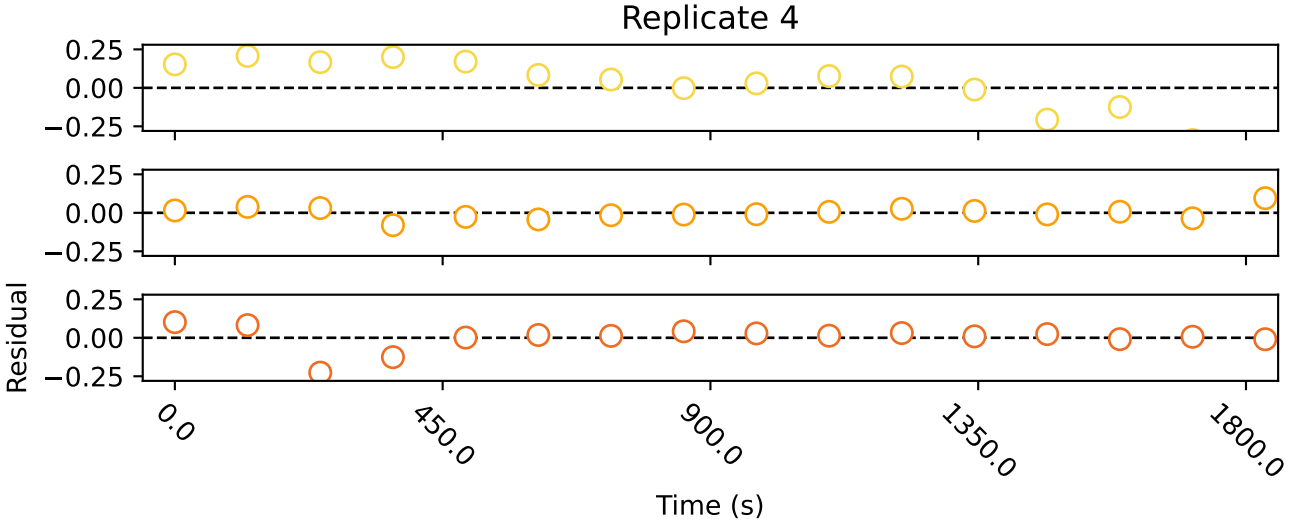

Replicate 4
[CNOT7X] μM
0.0
5.0
10.0
FRET
0.0
0.2
0.4
0.6
0.8
0
700
1400
2100
2800
Time (s)

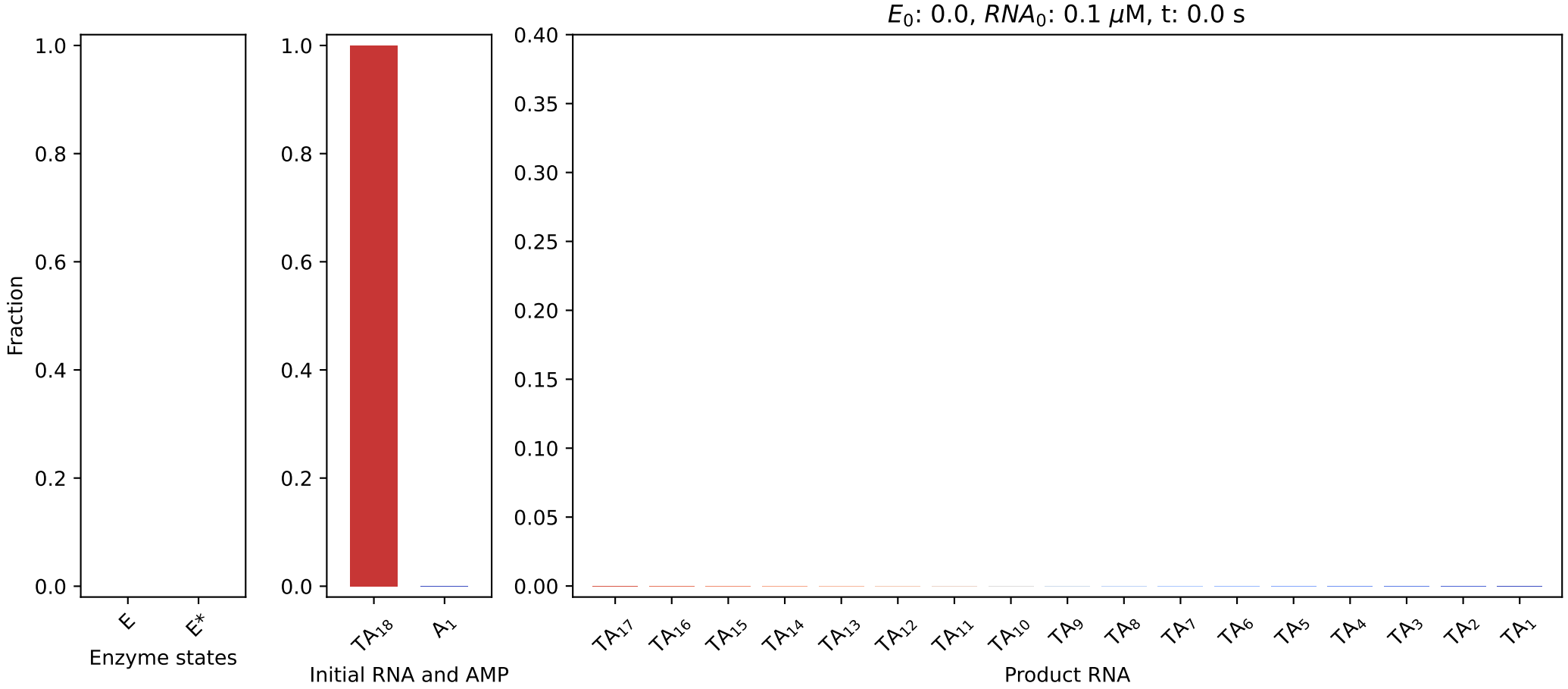

Replicate 4
[CNOT7X] μM
0.0
5.0
10.0
Normalized FRET
Time (s)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
0
700
1400
2100
2800

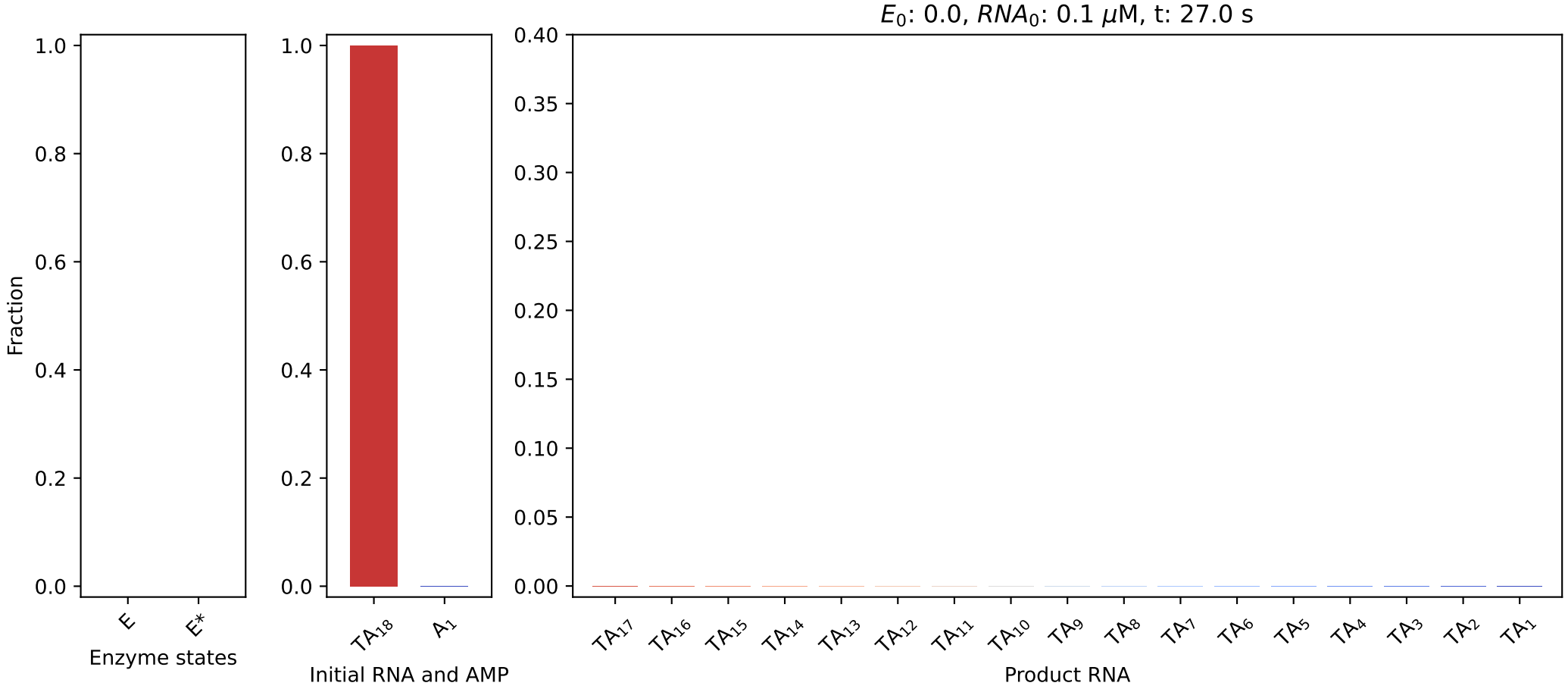

Replicate 1
Residual
0.25
0.00
−0.25
0.0
675.0
1350.0
2025.0
2700.0
Time (s)

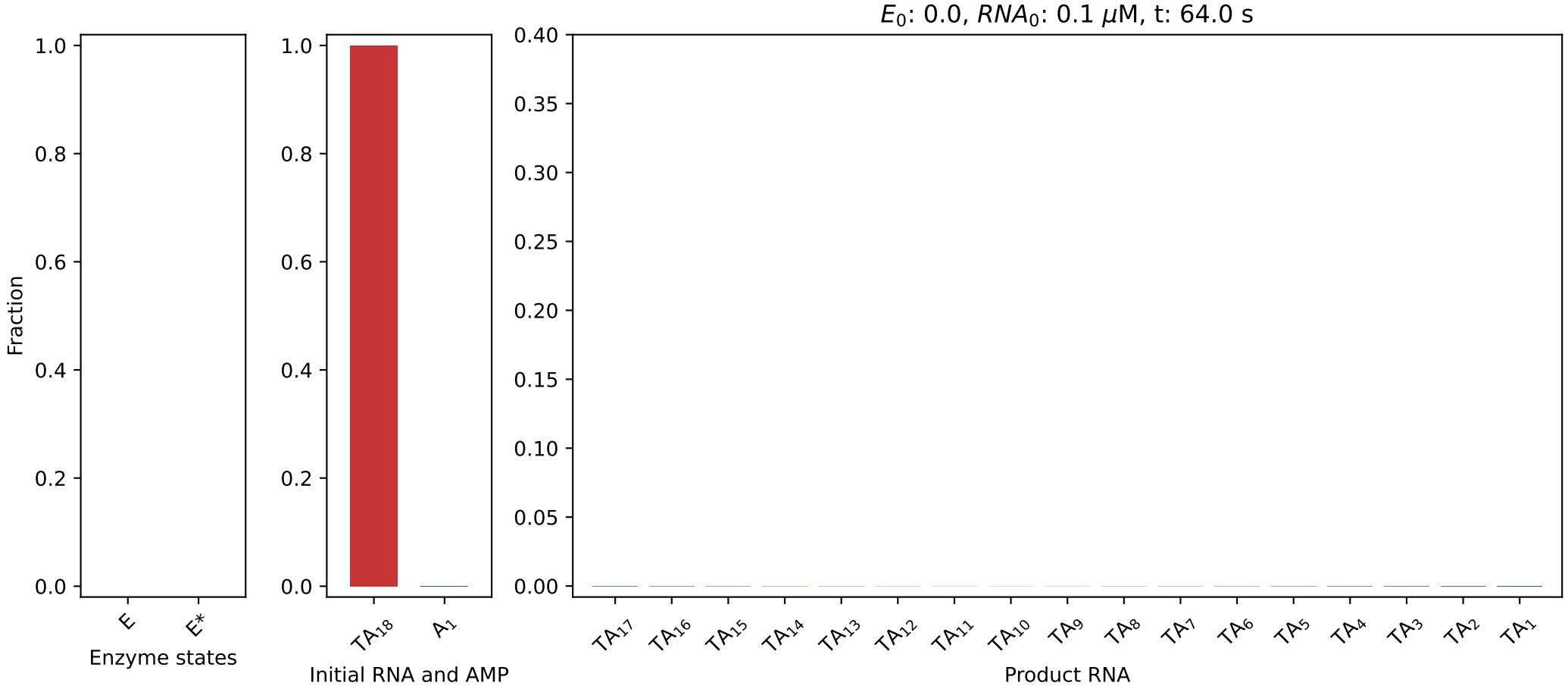

Replicate 2
Residual
0.25
0.00
−0.25
0.0
675.0
1350.0
2025.0
2700.0
Time (s)

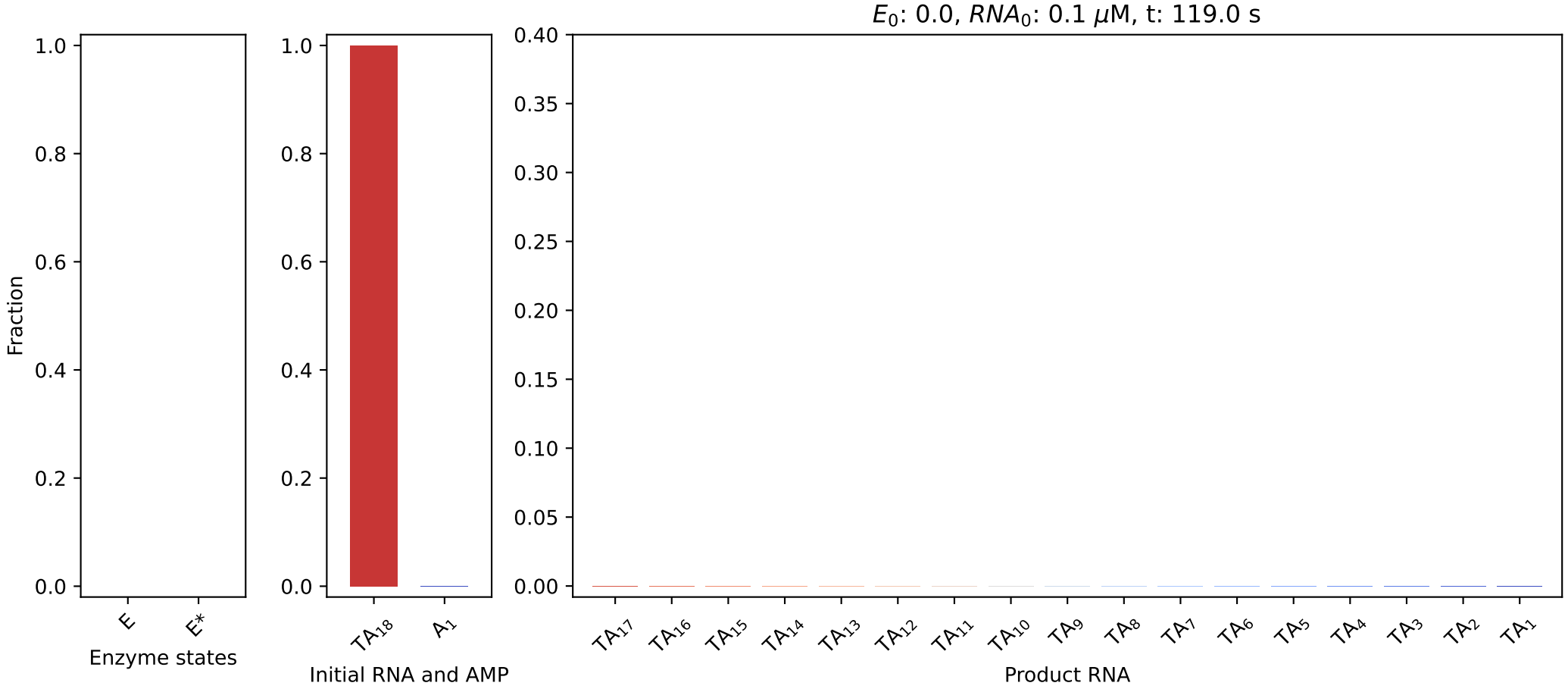

Replicate 3
0.25
0.00
−0.25
Residual
0.0
675.0
1350.0
2025.0
2700.0
Time (s)

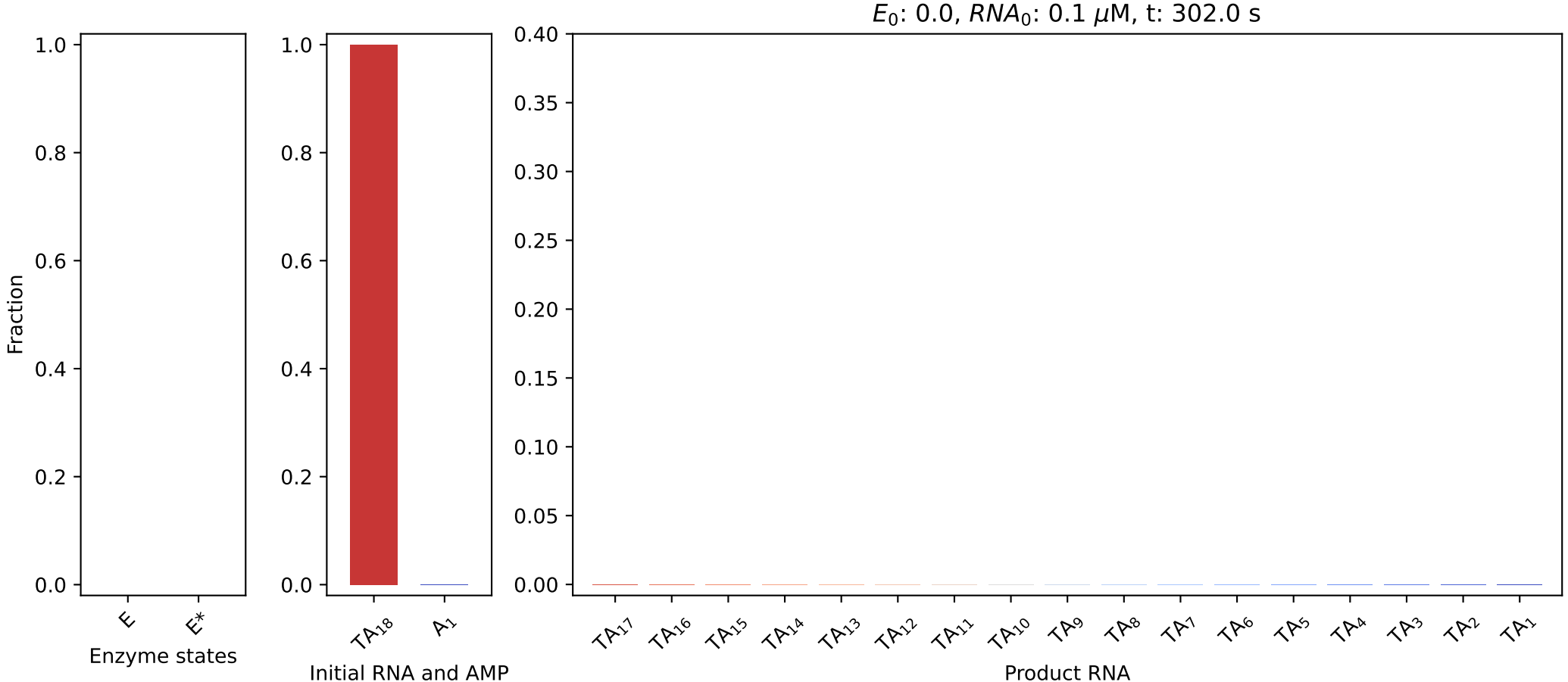

Replicate 4
0.25
0.00
−0.25
0.25
0.00
−0.25
0.25
0.00
−0.25
Residual
0.0
450.0
900.0
1350.0
1800.0
Time (s)

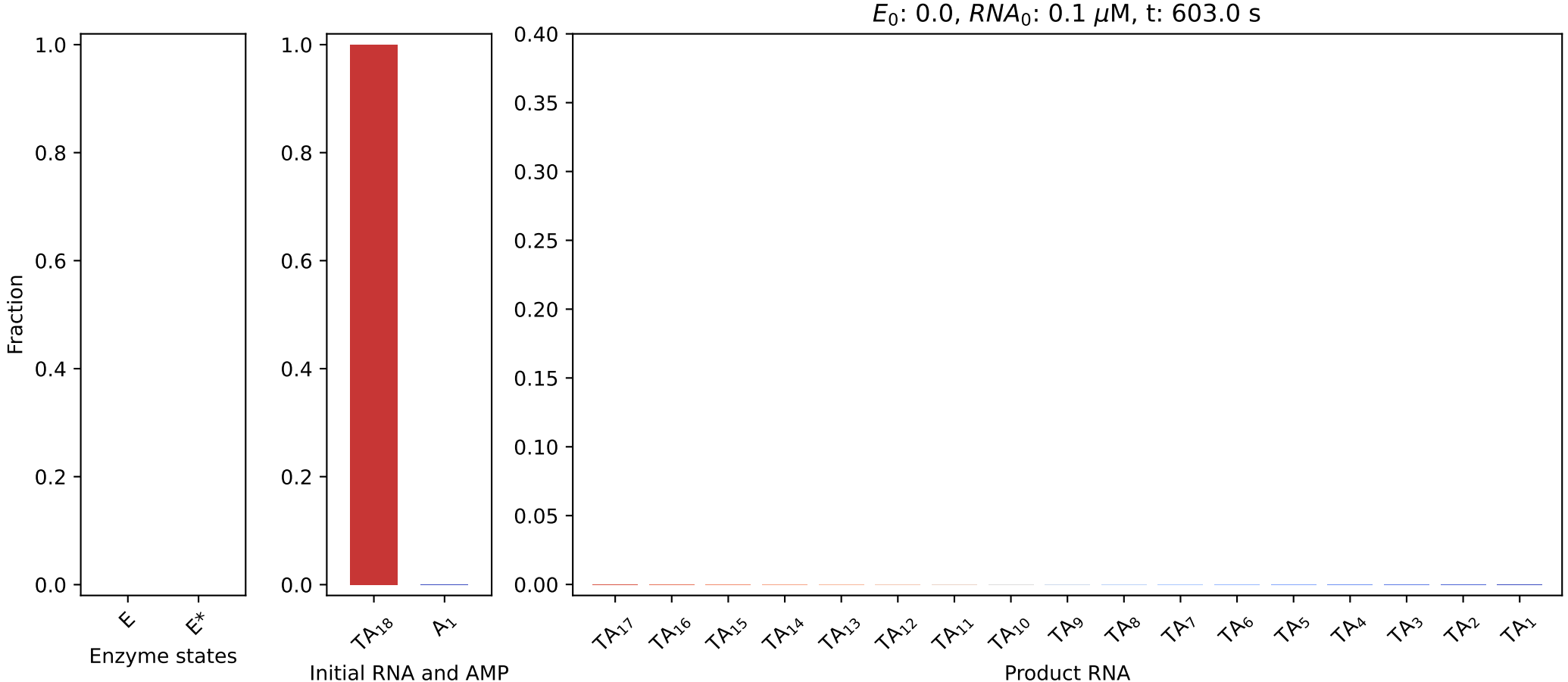

E_0: 0.0, RNA_0: 0.1 μM, t: 0.0 s
Fraction
1.0
0.8
0.6
0.4
0.2
0.0
E
E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
TA_{11}
TA_{10}
TA_9
TA_8
TA_7
TA_6
TA_5
TA_4
TA_3
TA_2
TA_1
Product RNA

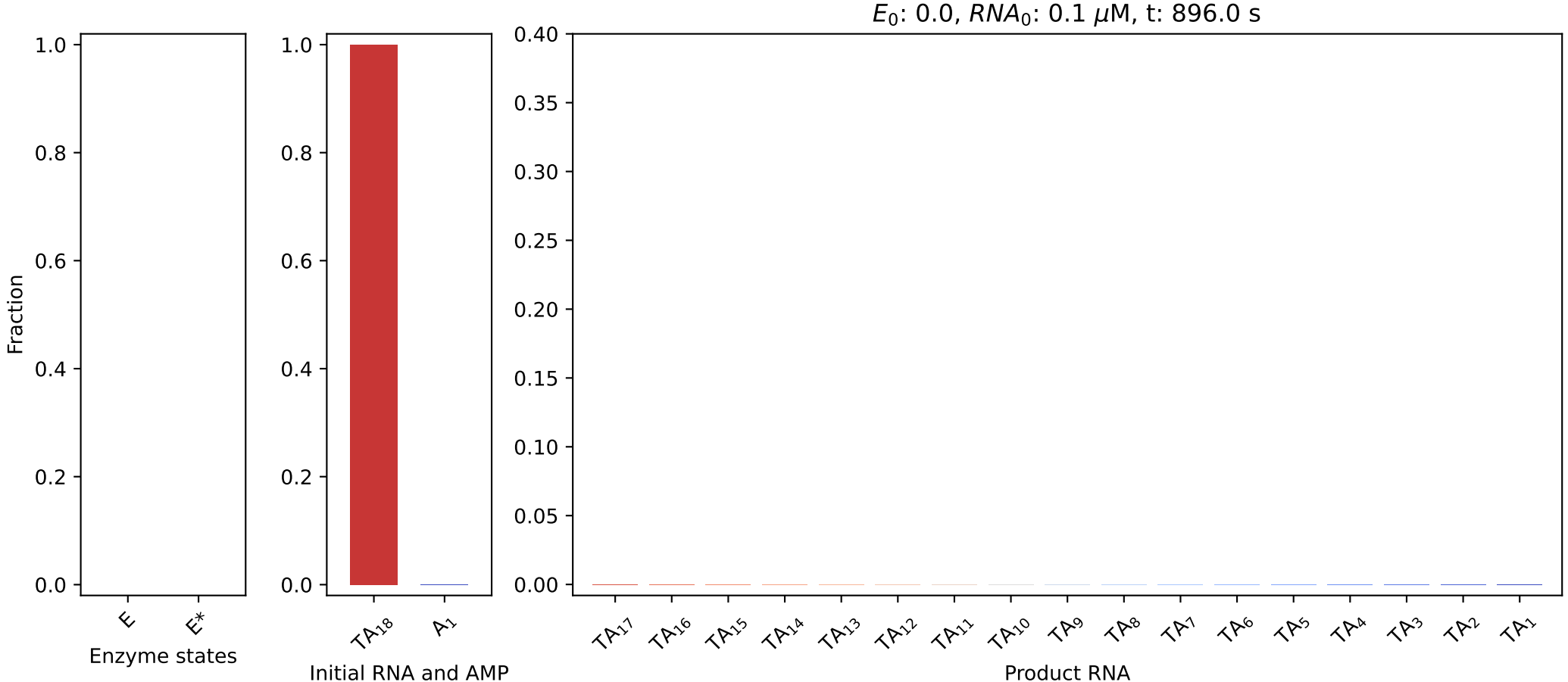

E_0: 0.0, RNA_0: 0.1 μM, t: 27.0 s
Fraction
1.0
0.8
0.6
0.4
0.2
0.0
E
E*
Enzyme states
1.0
0.8
0.6
0.4
0.2
0.0
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
TA_{11}
TA_{10}
TA_9
TA_8
TA_7
TA_6
TA_5
TA_4
TA_3
TA_2
TA_1
Product RNA

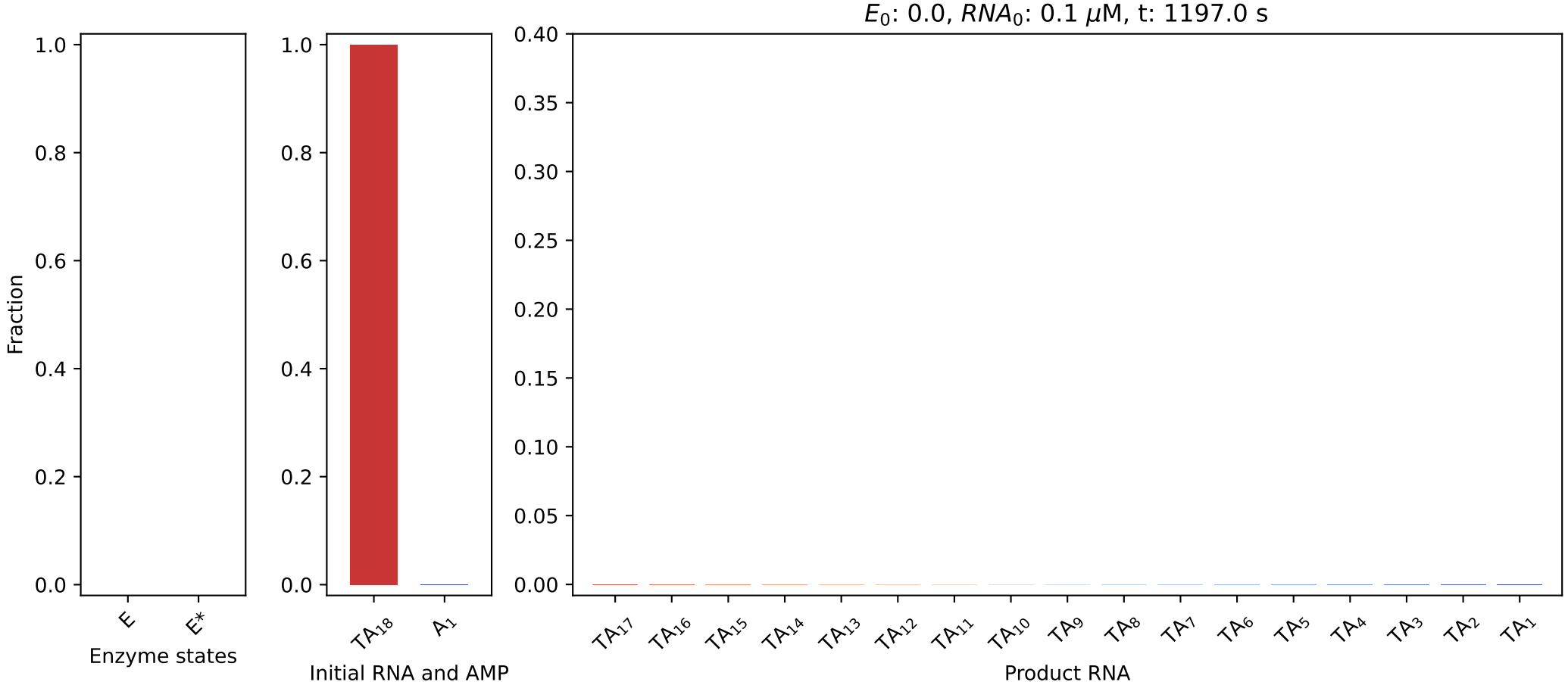

E_0: 0.0, RNA_0: 0.1 μM, t: 64.0 s
Fraction
1.0
0.8
0.6
0.4
0.2
0.0
E
E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
TA_{11}
TA_{10}
TA_9
TA_8
TA_7
TA_6
TA_5
TA_4
TA_3
TA_2
TA_1
Product RNA

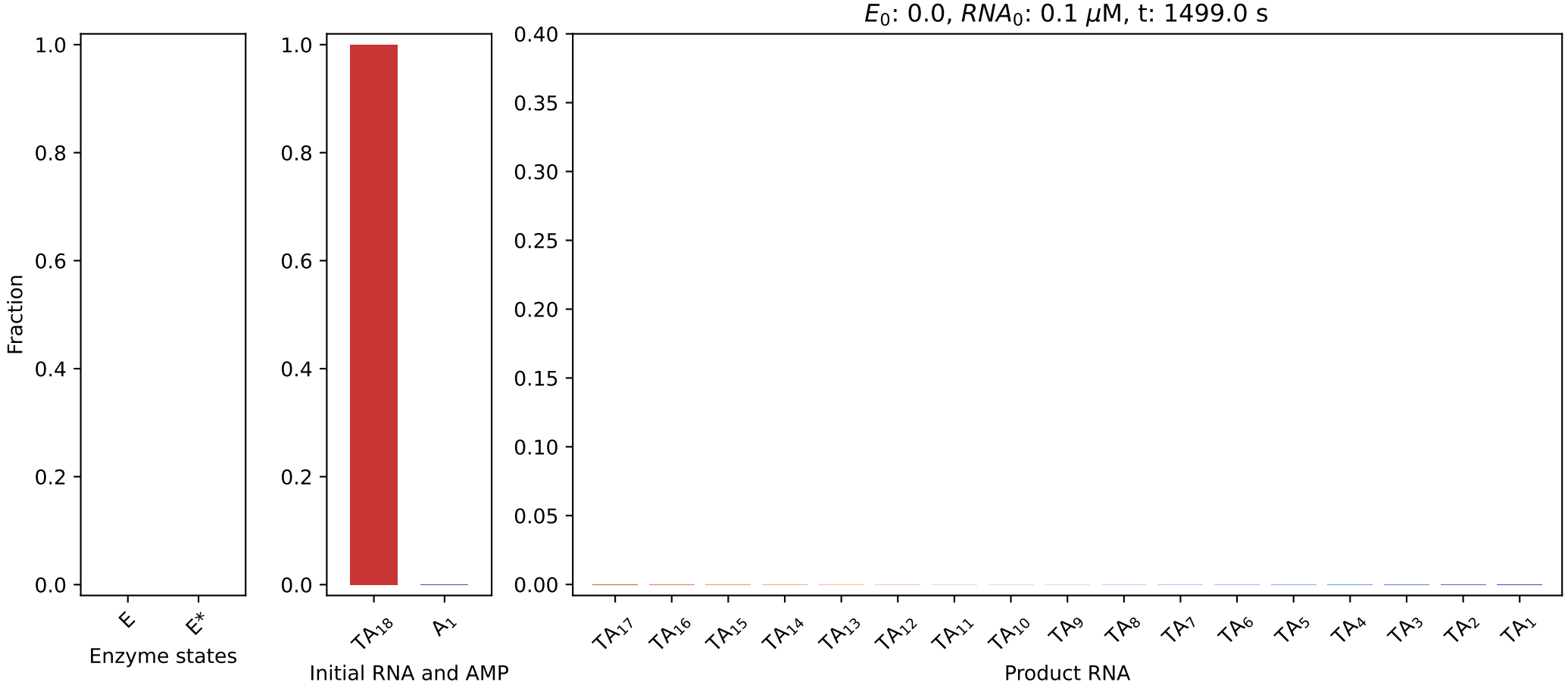

E_0: 0.0, RNA_0: 0.1 μM, t: 119.0 s
Fraction
1.0
0.8
0.6
0.4
0.2
0.0
E
E*
Enzyme states
1.0
0.8
0.6
0.4
0.2
0.0
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
TA_{11}
TA_{10}
TA_9
TA_8
TA_7
TA_6
TA_5
TA_4
TA_3
TA_2
TA_1
Product RNA

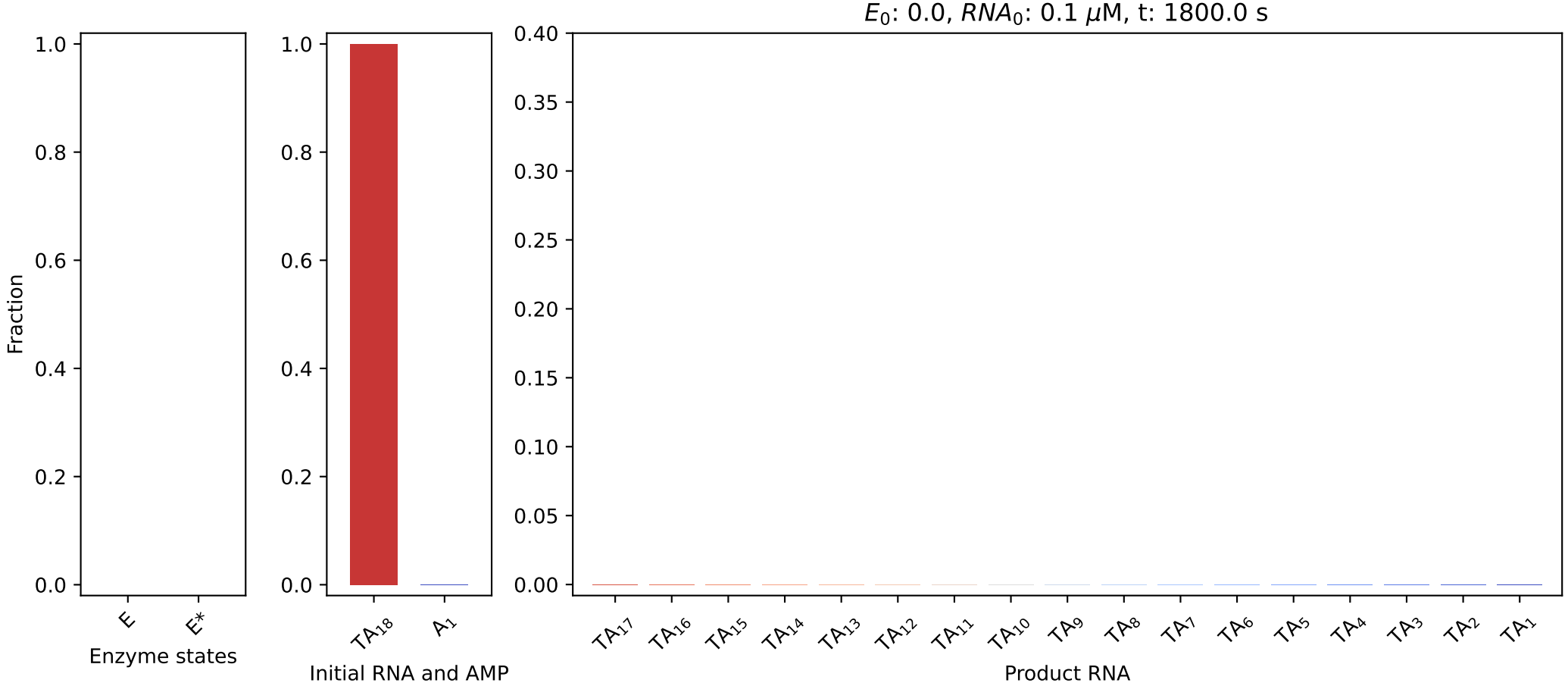

E_0: 0.0, RNA_0: 0.1 μM, t: 302.0 s
Fraction
1.0
0.8
0.6
0.4
0.2
0.0
E
E*
Enzyme states
1.0
0.8
0.6
0.4
0.2
0.0
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
TA_{11}
TA_{10}
TA_9
TA_8
TA_7
TA_6
TA_5
TA_4
TA_3
TA_2
TA_1
Product RNA

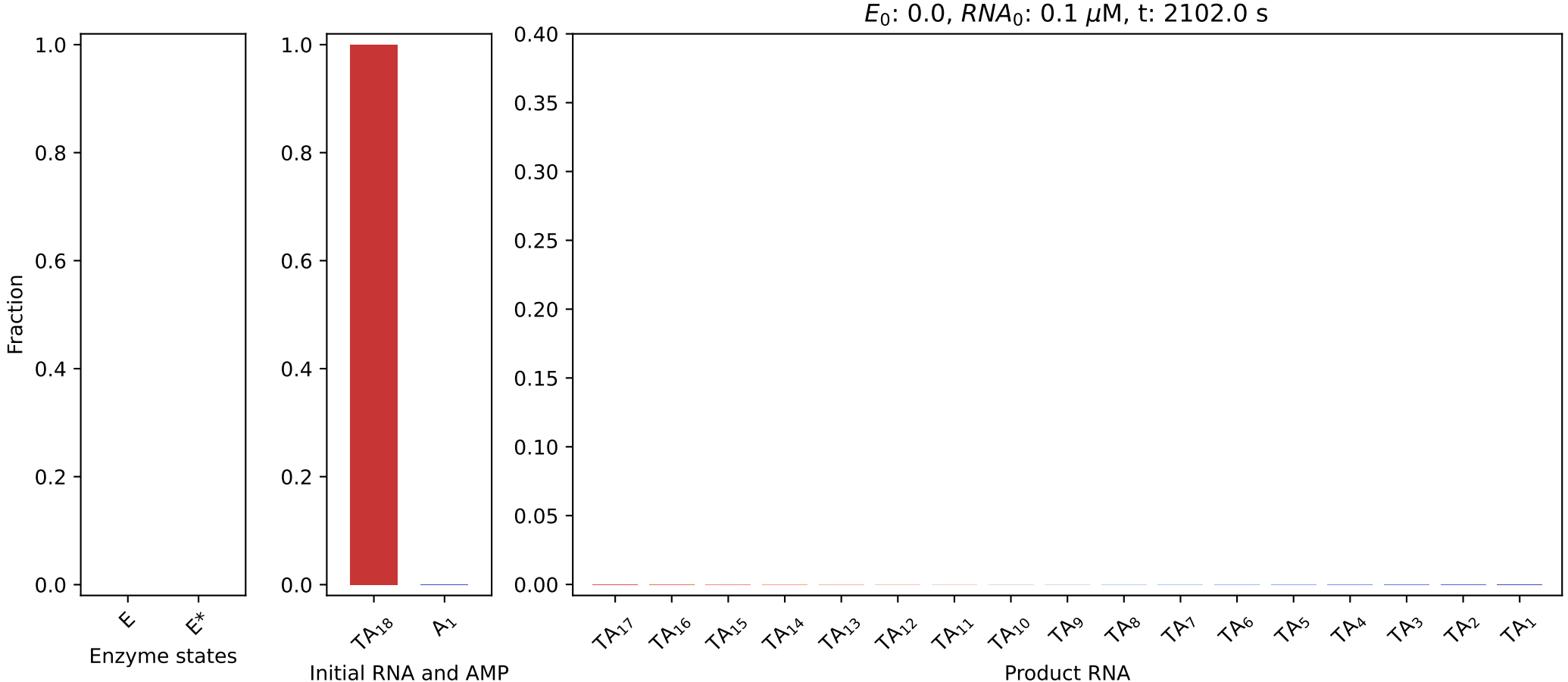

E_0: 0.0, RNA_0: 0.1 μM, t: 603.0 s
Fraction
1.0
0.8
0.6
0.4
0.2
0.0
E
E*
Enzyme states
1.0
0.8
0.6
0.4
0.2
0.0
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
TA_{11}
TA_{10}
TA_9
TA_8
TA_7
TA_6
TA_5
TA_4
TA_3
TA_2
TA_1
Product RNA

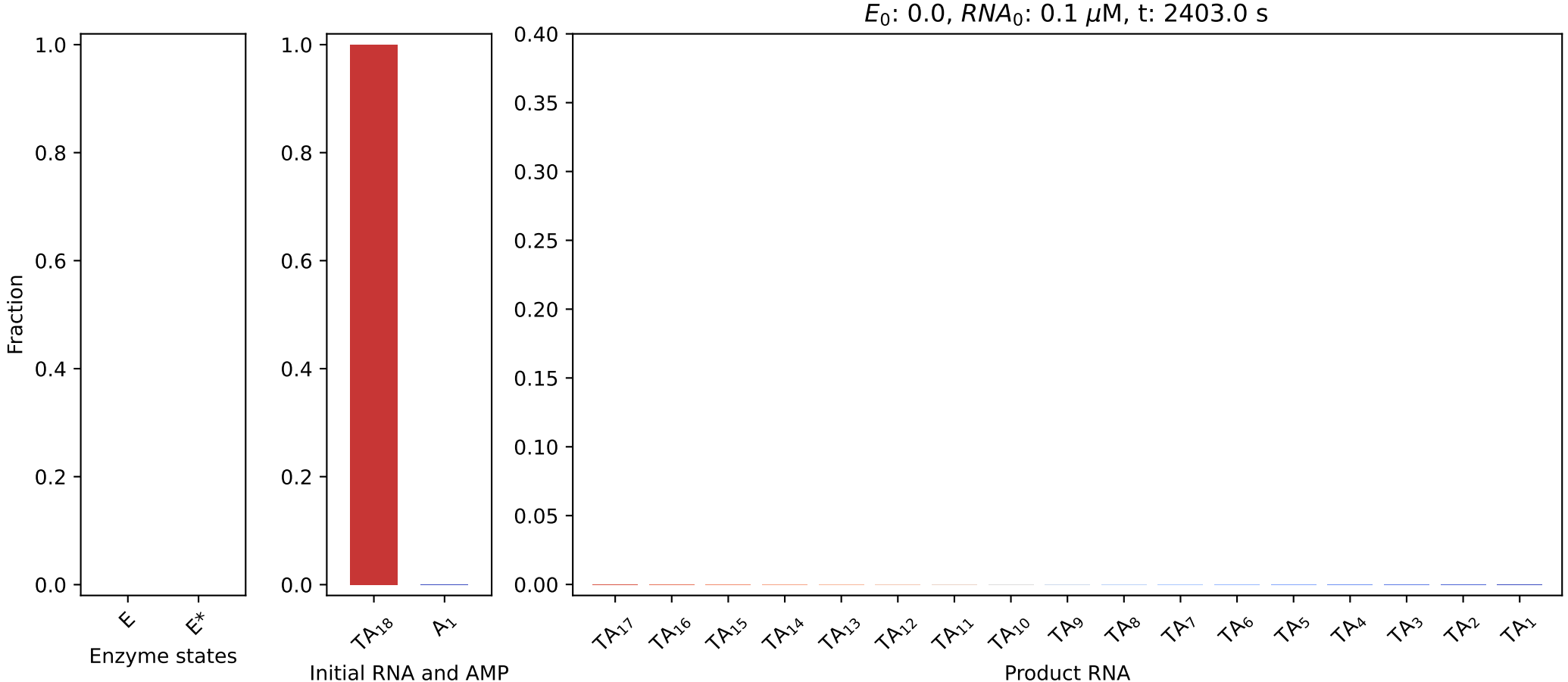

E_0: 0.0, RNA_0: 0.1 μM, t: 896.0 s
Fraction
1.0
0.8
0.6
0.4
0.2
0.0
E
E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
TA_{11}
TA_{10}
TA_9
TA_8
TA_7
TA_6
TA_5
TA_4
TA_3
TA_2
TA_1
Product RNA

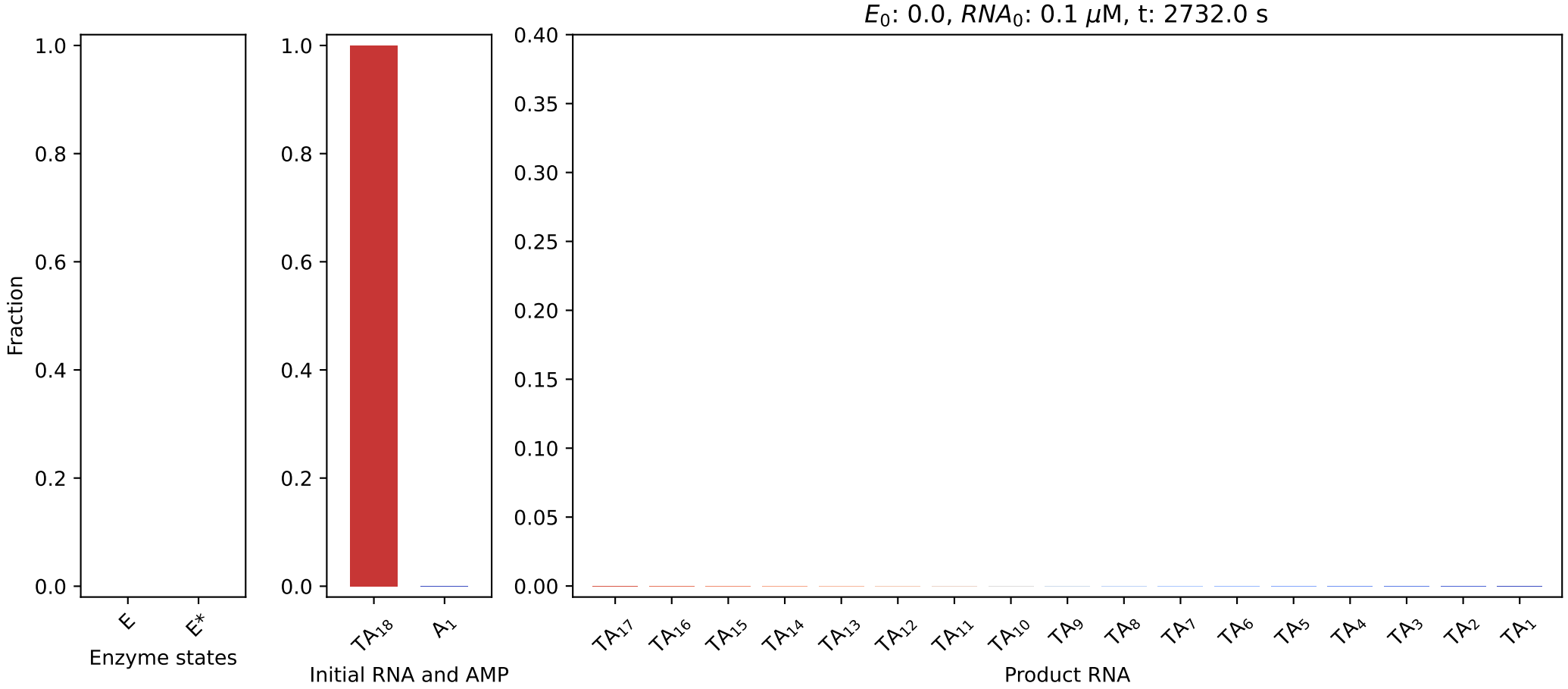

E_0: 0.0, RNA_0: 0.1 μM, t: 1197.0 s
Fraction
1.0
0.8
0.6
0.4
0.2
0.0
E
E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
TA_{11}
TA_{10}
TA_9
TA_8
TA_7
TA_6
TA_5
TA_4
TA_3
TA_2
TA_1
Product RNA

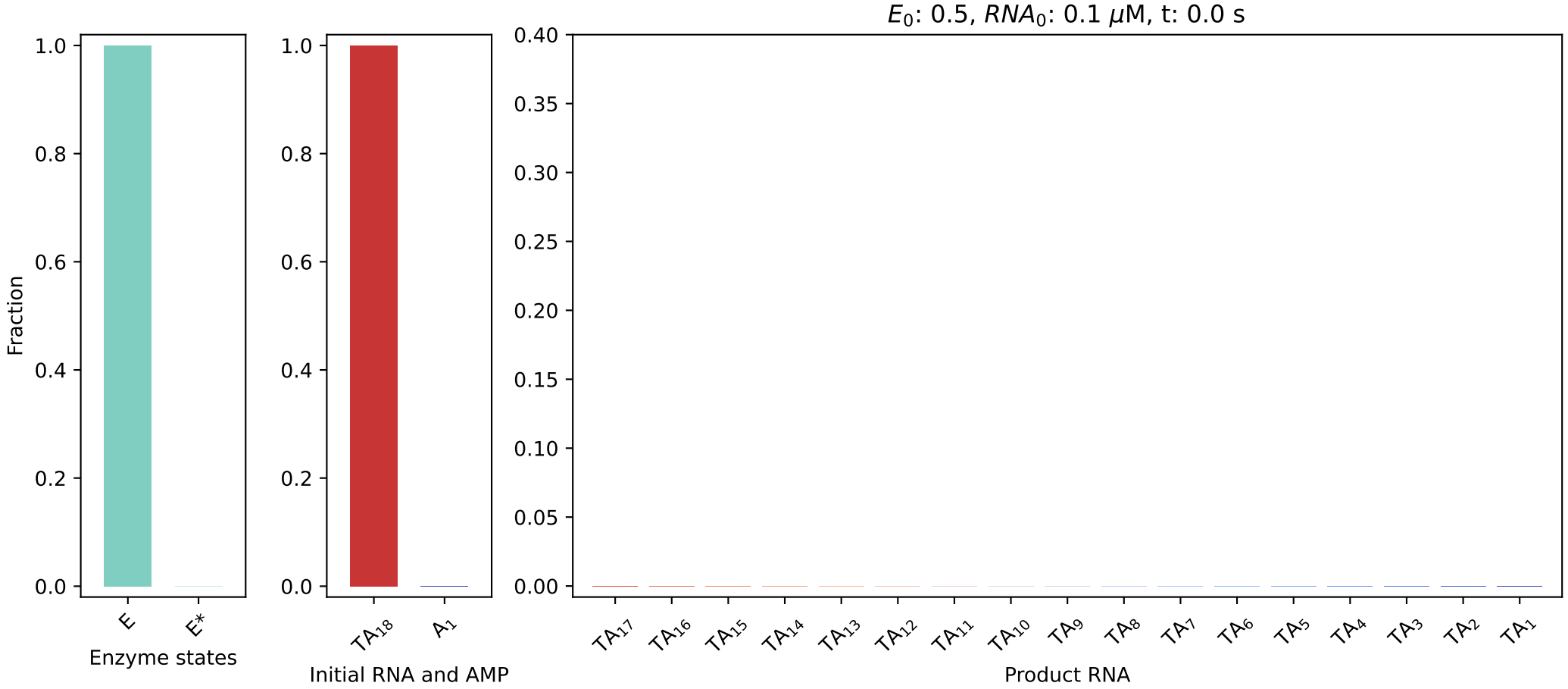

E_0: 0.0, RNA_0: 0.1 μM, t: 1499.0 s
Fraction
1.0
0.8
0.6
0.4
0.2
0.0
E
E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
TA_{11}
TA_{10}
TA_9
TA_8
TA_7
TA_6
TA_5
TA_4
TA_3
TA_2
TA_1
Product RNA


E_0: 0.0, RNA_0: 0.1 μM, t: 1800.0 s
Fraction
1.0
0.8
0.6
0.4
0.2
0.0
E
E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
TA_{11}
TA_{10}
TA_9
TA_8
TA_7
TA_6
TA_5
TA_4
TA_3
TA_2
TA_1
Product RNA


E_0: 0.0, RNA_0: 0.1 μM, t: 2102.0 s
Fraction
1.0
0.8
0.6
0.4
0.2
0.0
E
E*
Enzyme states
1.0
0.8
0.6
0.4
0.2
0.0
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
TA_{11}
TA_{10}
TA_9
TA_8
TA_7
TA_6
TA_5
TA_4
TA_3
TA_2
TA_1
Product RNA


E_0: 0.0, RNA_0: 0.1 μM, t: 2403.0 s
Fraction
1.0
0.8
0.6
0.4
0.2
0.0
E
E*
Enzyme states
1.0
0.8
0.6
0.4
0.2
0.0
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
TA_{11}
TA_{10}
TA_9
TA_8
TA_7
TA_6
TA_5
TA_4
TA_3
TA_2
TA_1
Product RNA


E_0: 0.0, RNA_0: 0.1 μM, t: 2732.0 s
Fraction
1.0
0.8
0.6
0.4
0.2
0.0
E
E*
Enzyme states
1.0
0.8
0.6
0.4
0.2
0.0
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
TA_{11}
TA_{10}
TA_9
TA_8
TA_7
TA_6
TA_5
TA_4
TA_3
TA_2
TA_1
Product RNA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E
E*
Enzyme states
TA18
A1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
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0.10
0.05
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TA17
TA16
TA15
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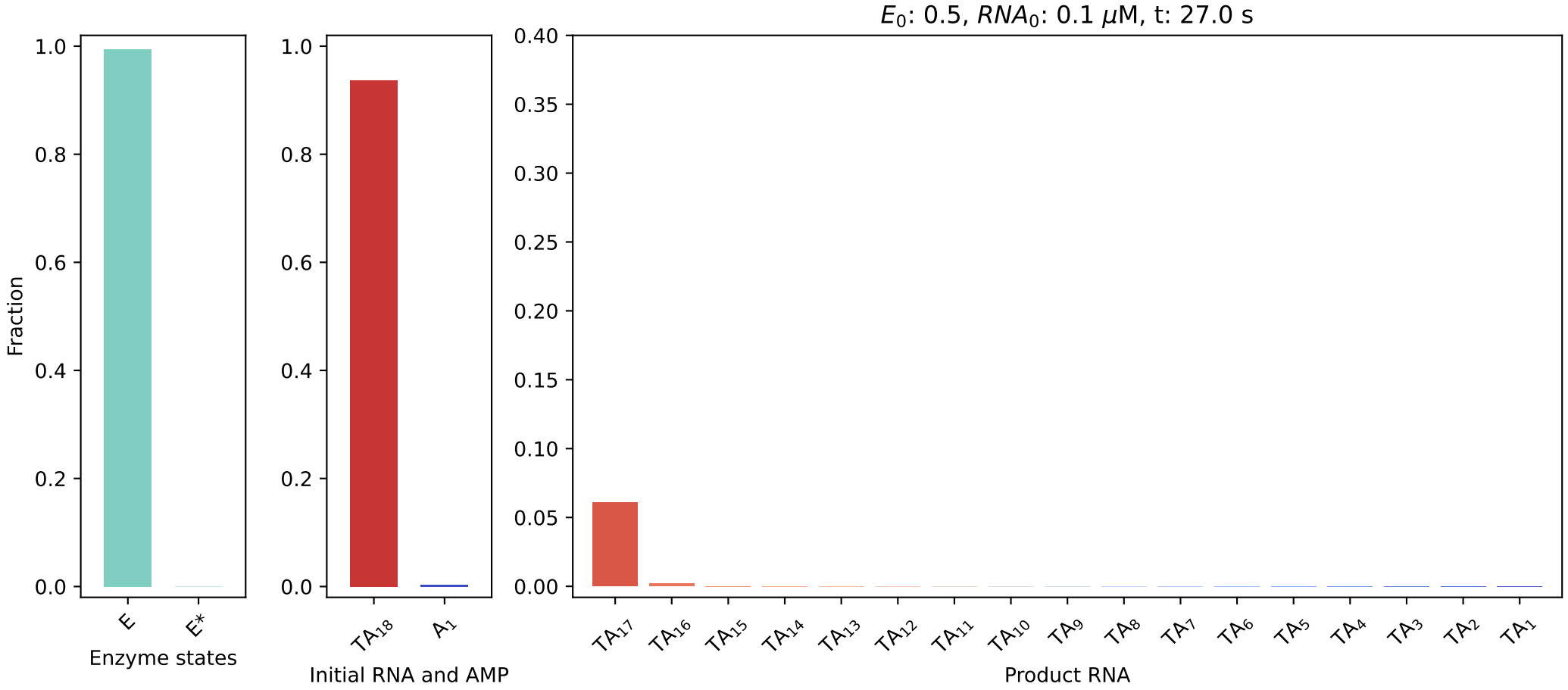
Product RNA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Enzyme states
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Initial RNA and AMP
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TA17
TA16
TA15
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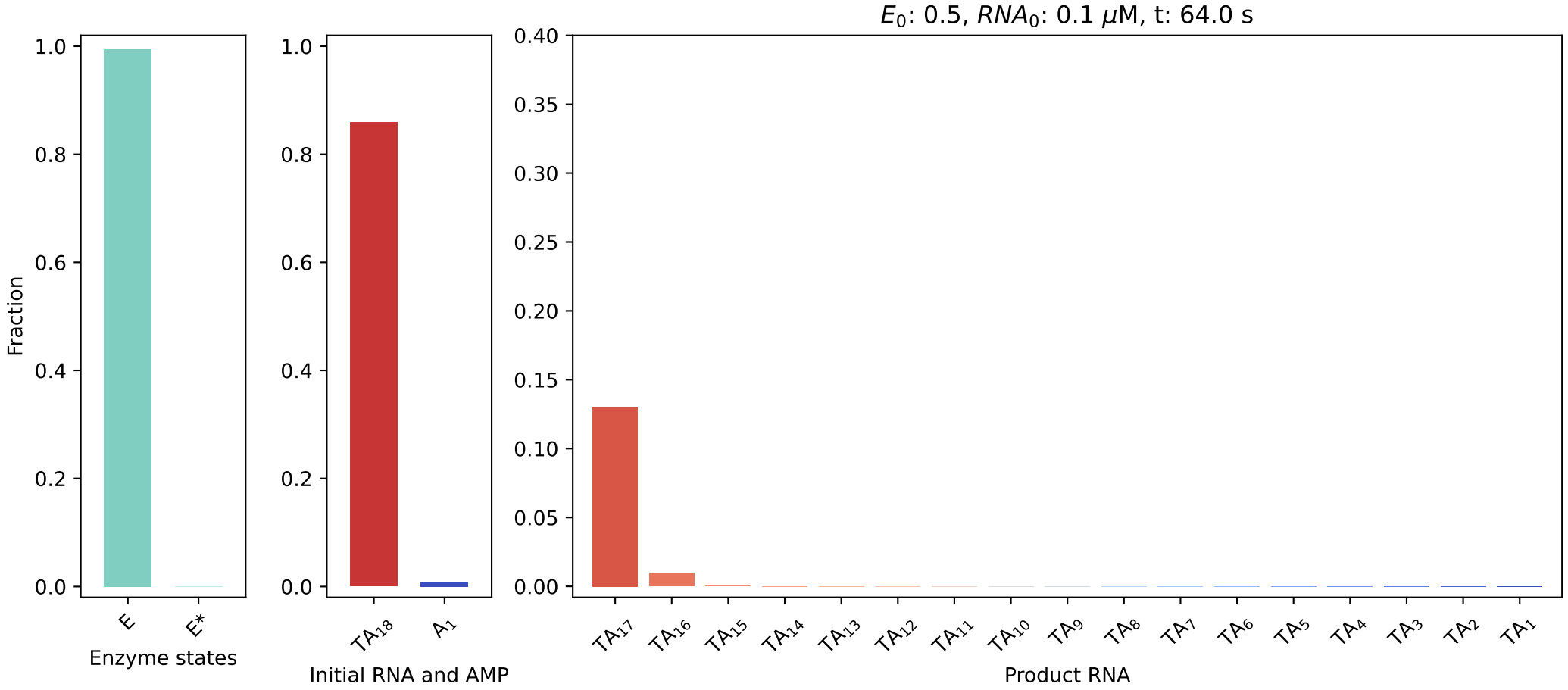
Product RNA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Enzyme states
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Initial RNA and AMP
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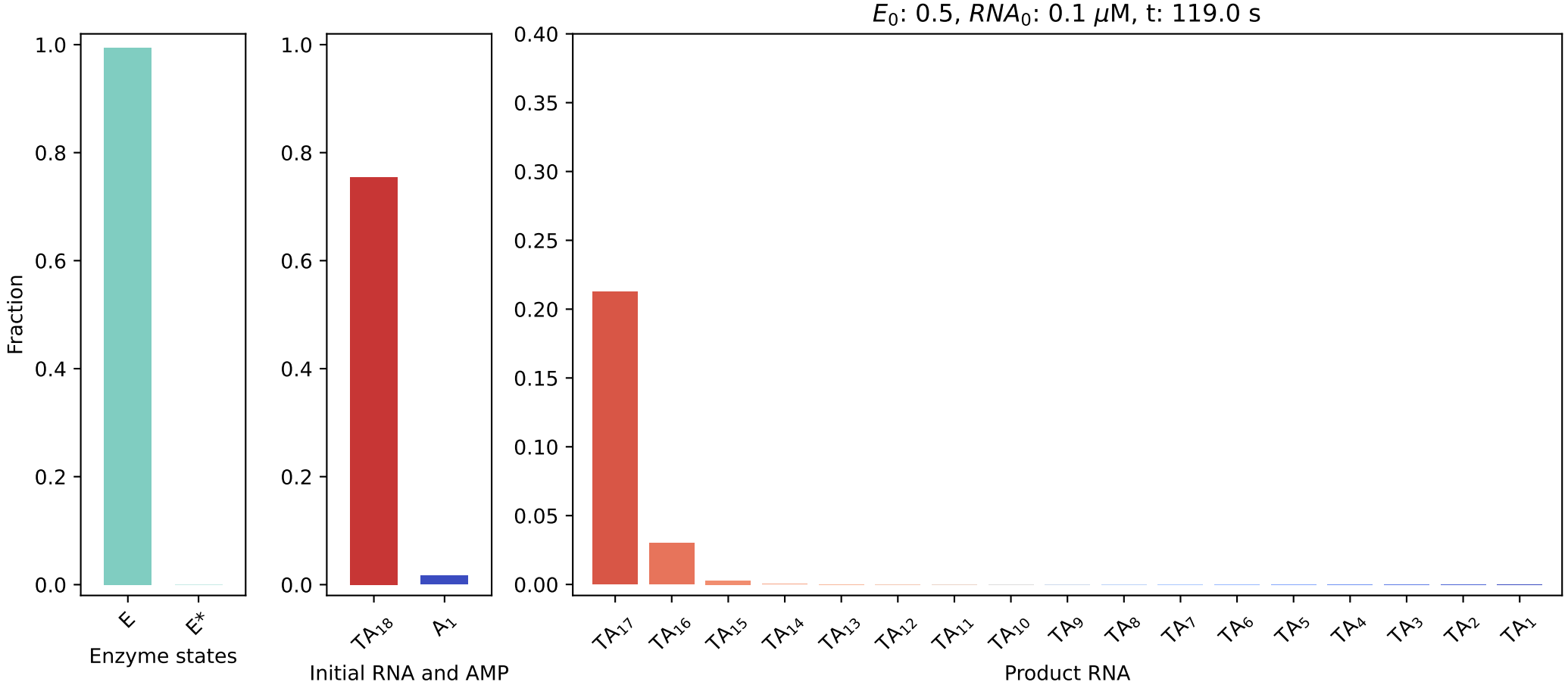
Product RNA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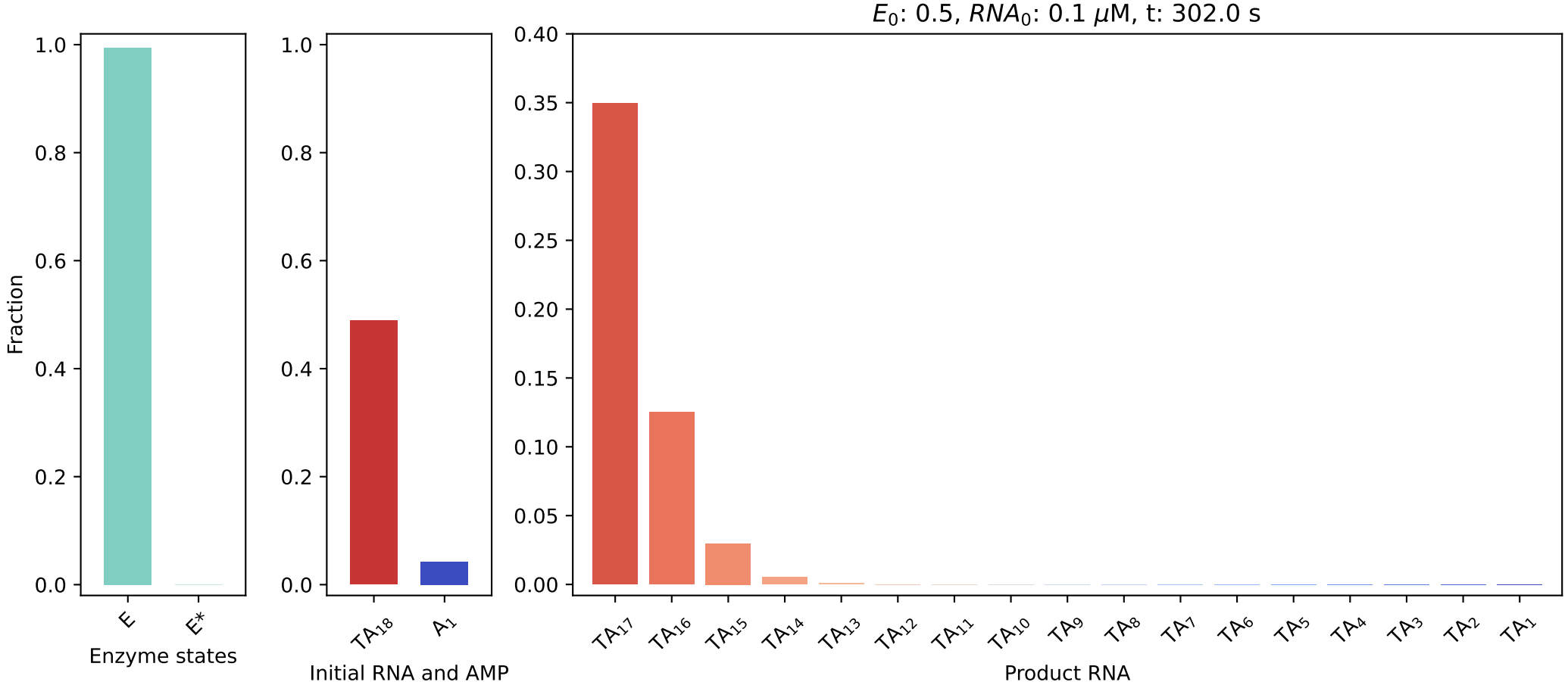
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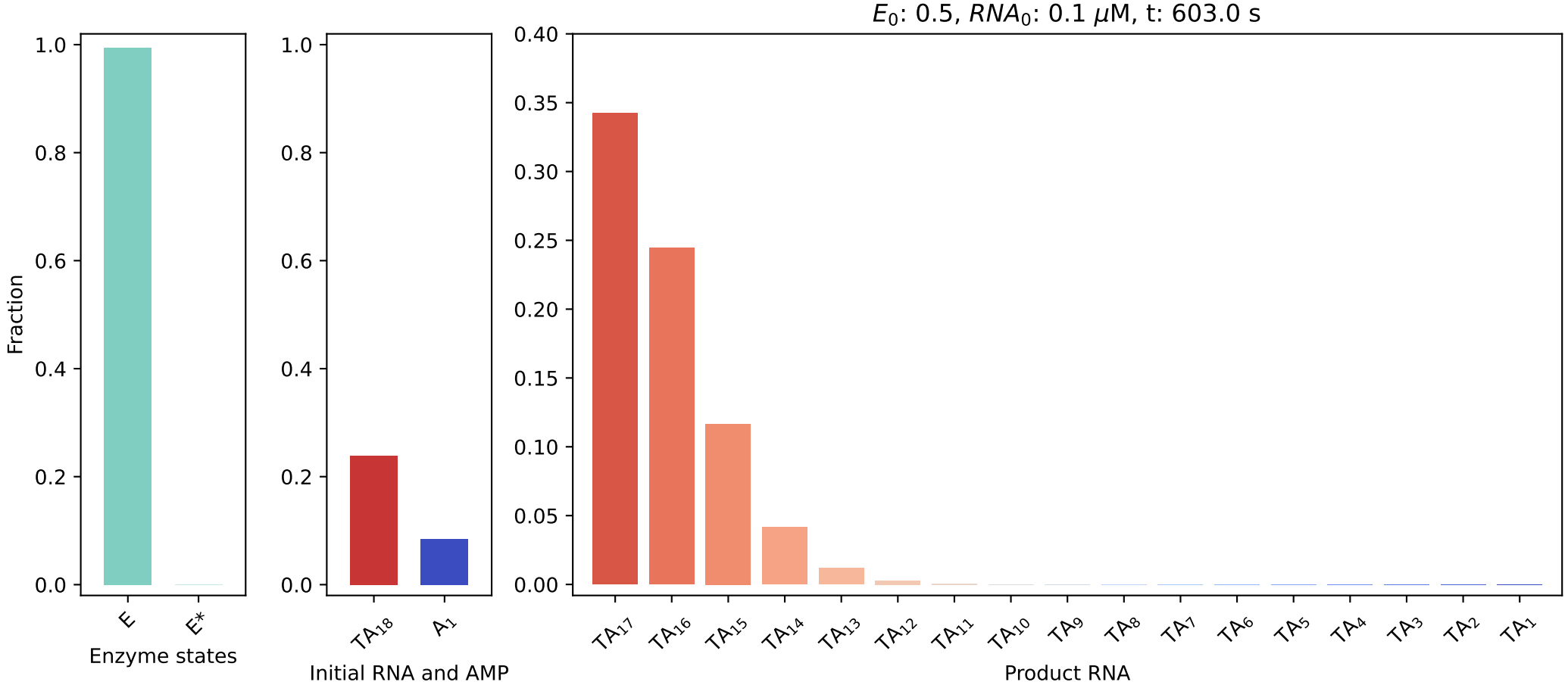
Product RNA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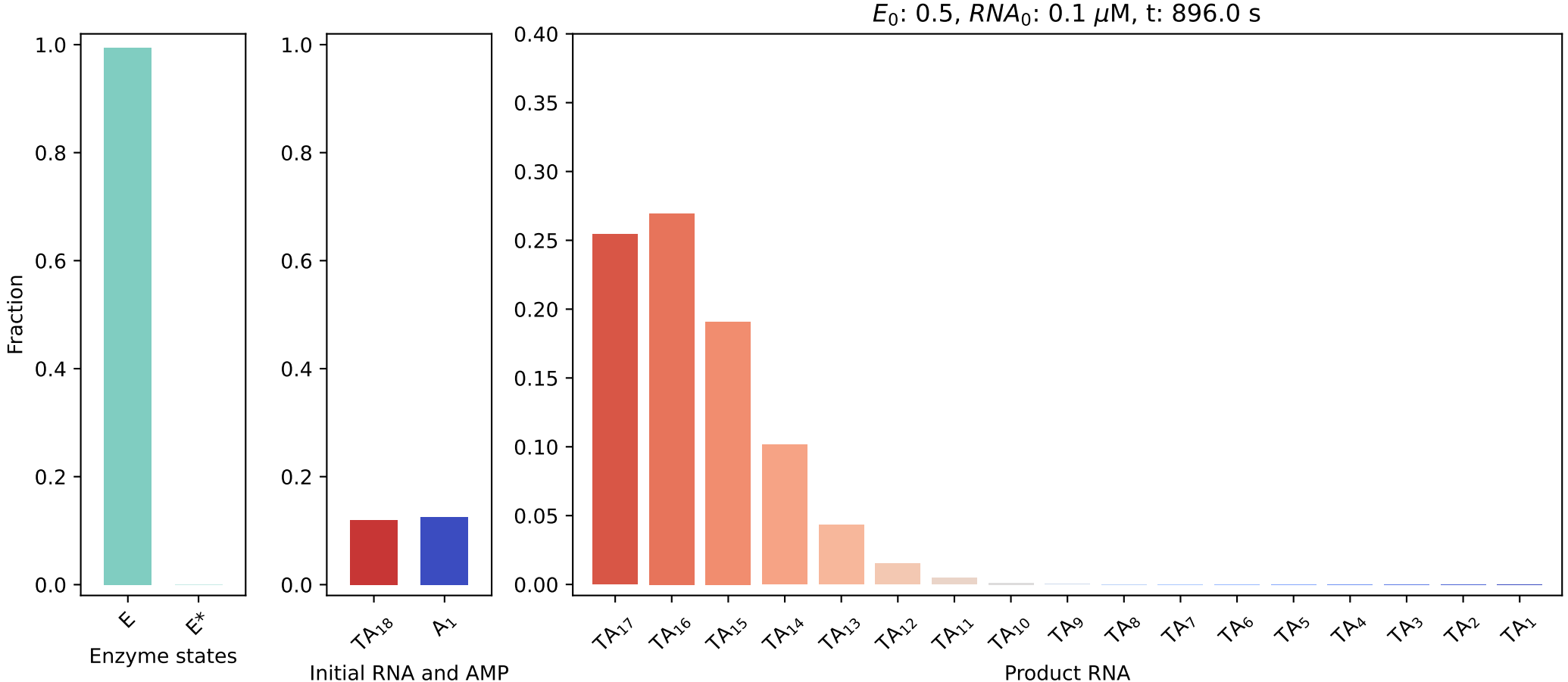
Product RNA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E
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Enzyme states
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A1
Initial RNA and AMP
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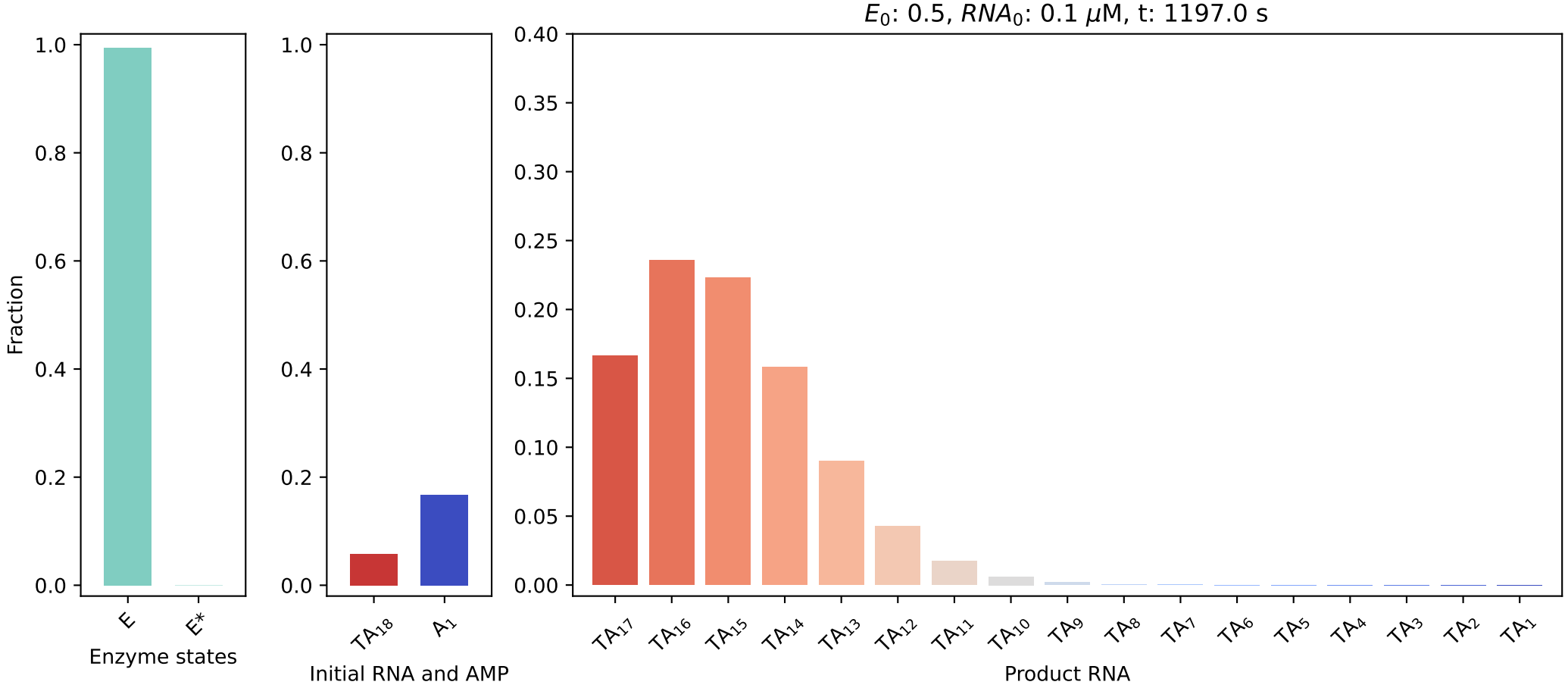
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Enzyme states
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Initial RNA and AMP
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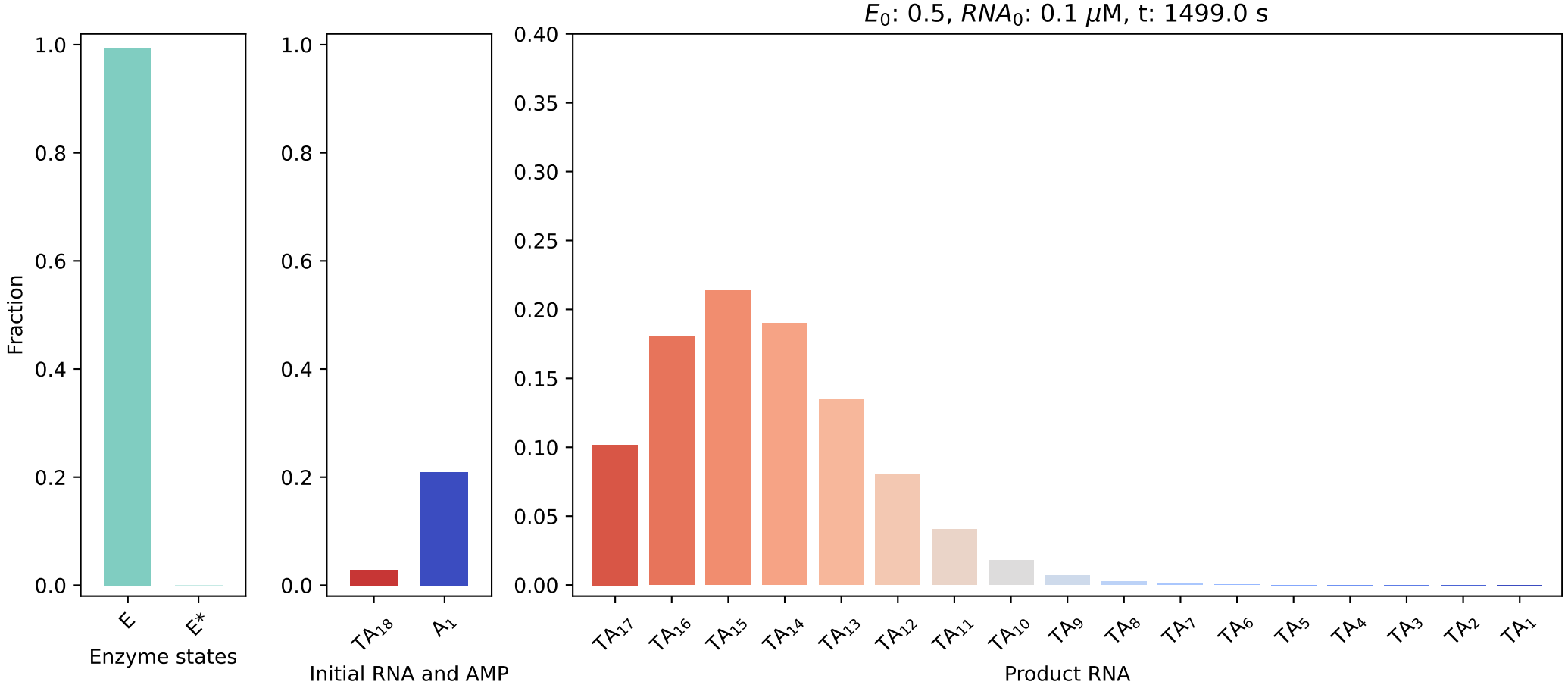
Product RNA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Enzyme states
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A_1
Initial RNA and AMP
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0.30
0.25
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TA_{17}
TA_{16}
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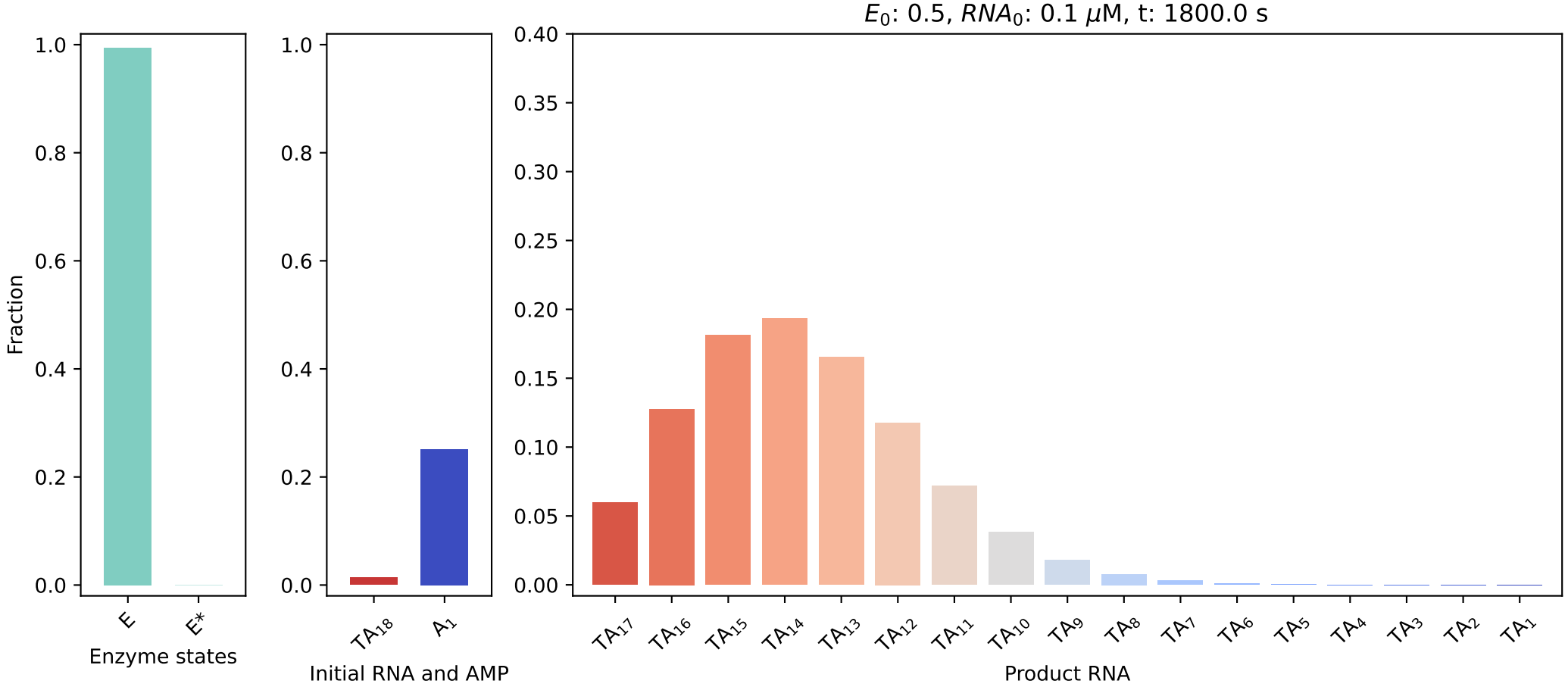
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Enzyme states
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Initial RNA and AMP
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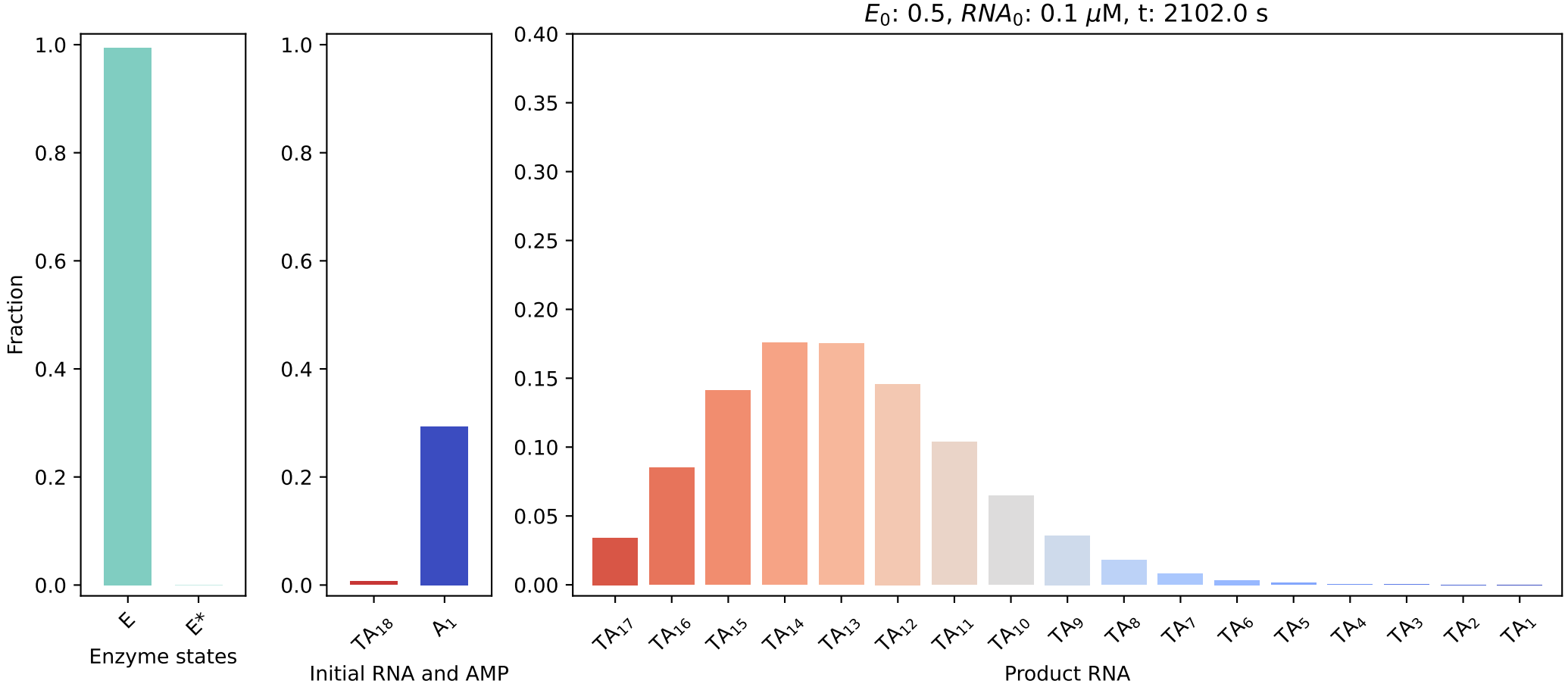
Product RNA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Enzyme states
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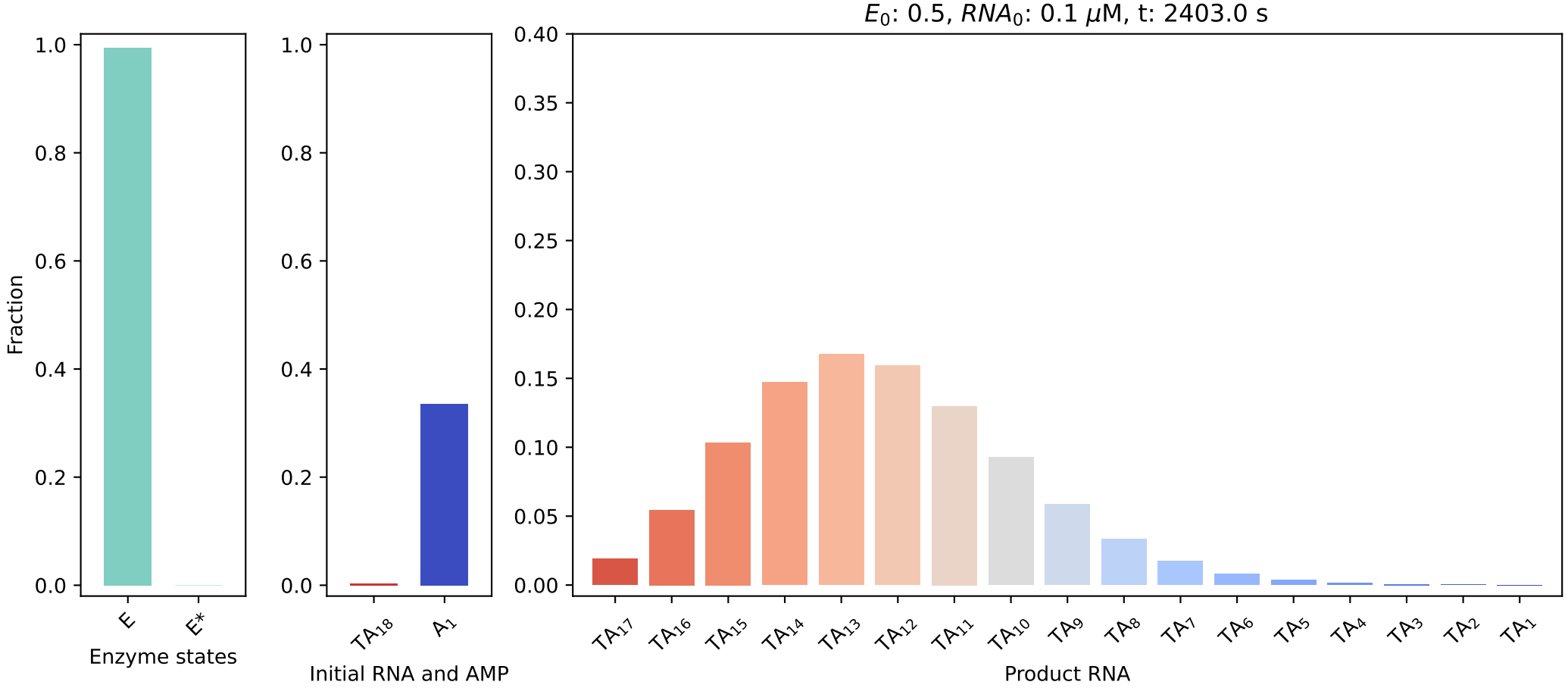
Product RNA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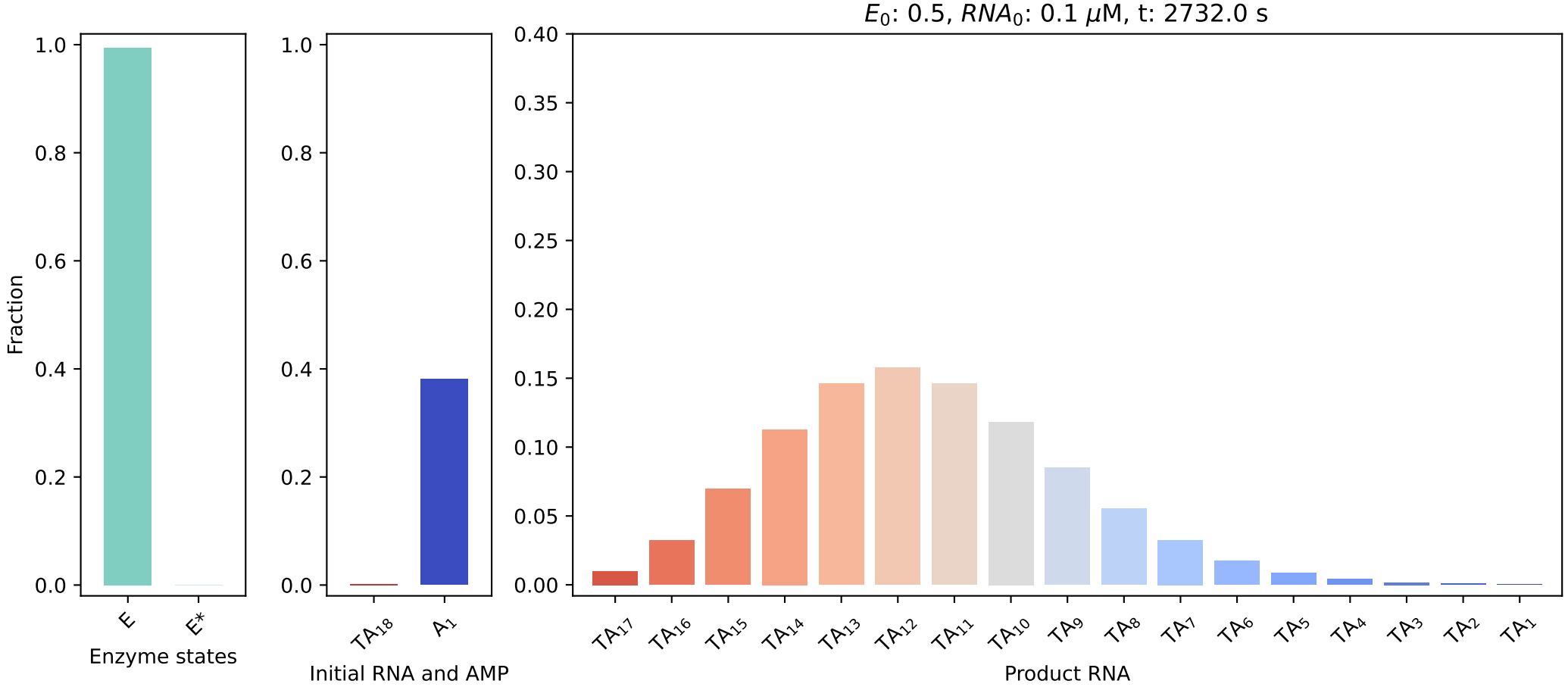
Product RNA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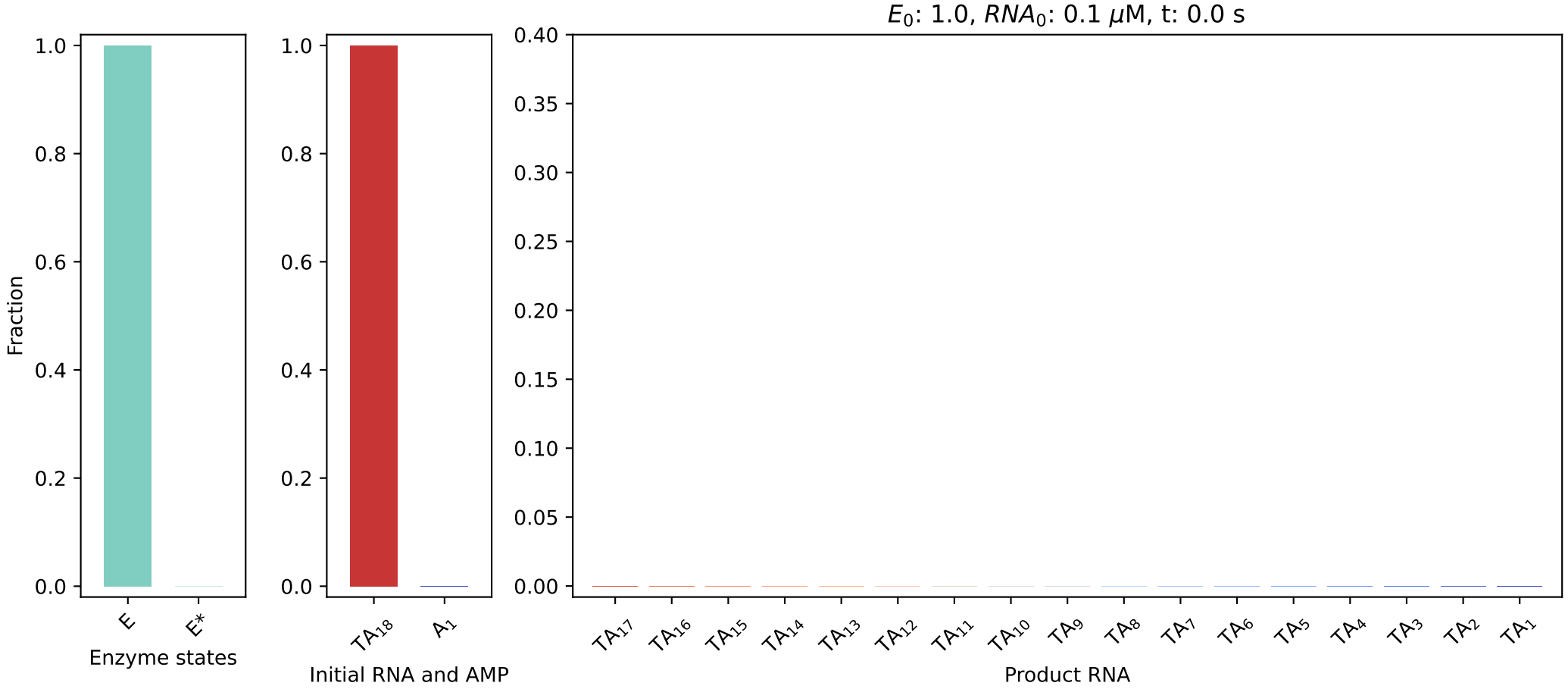
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Enzyme states
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Initial RNA and AMP
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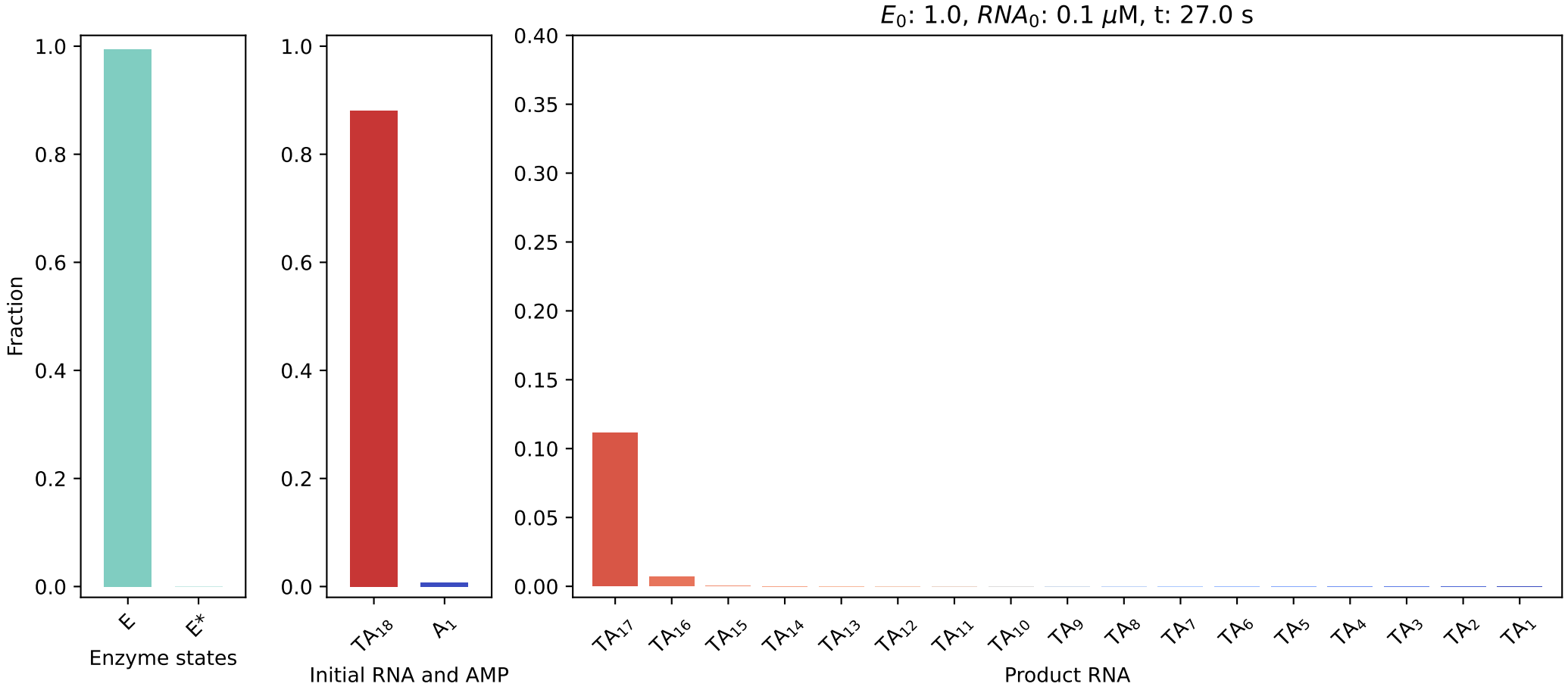
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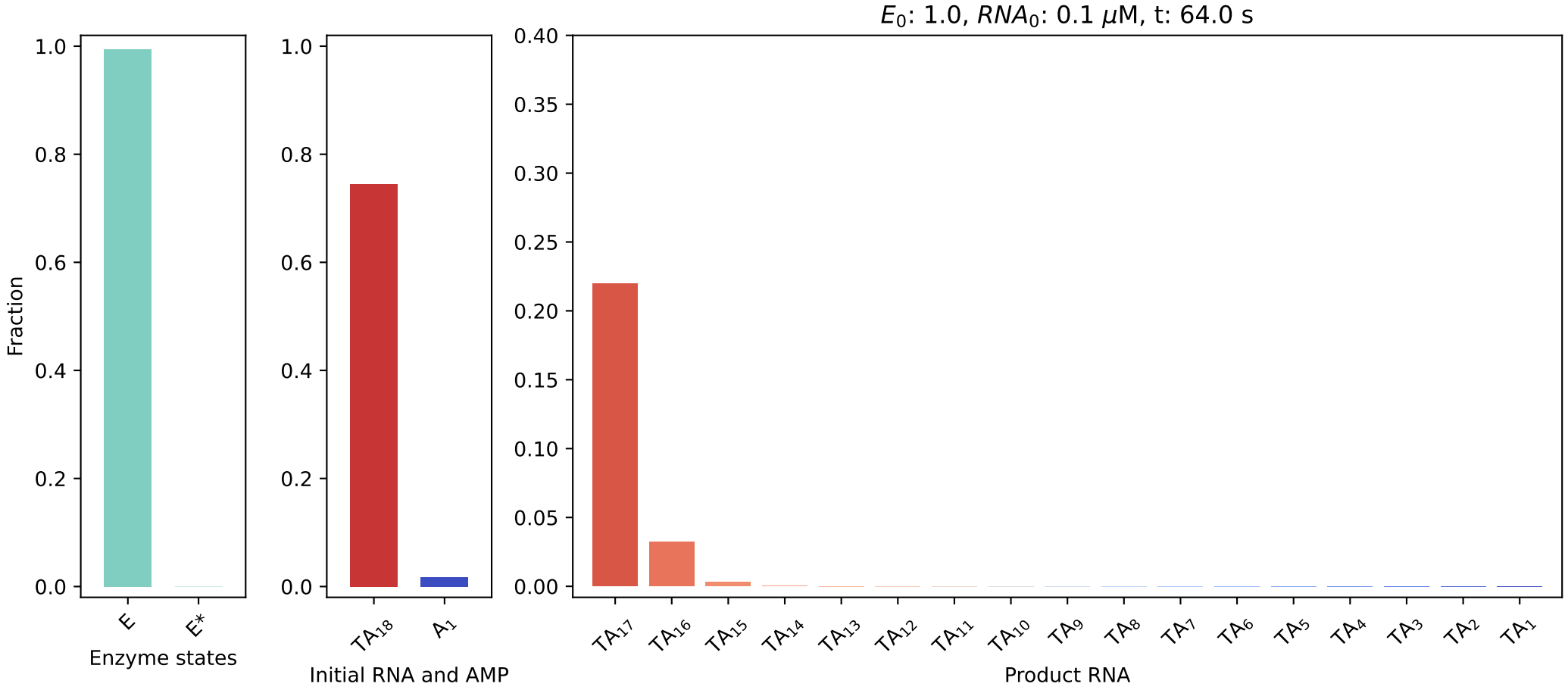
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Enzyme states
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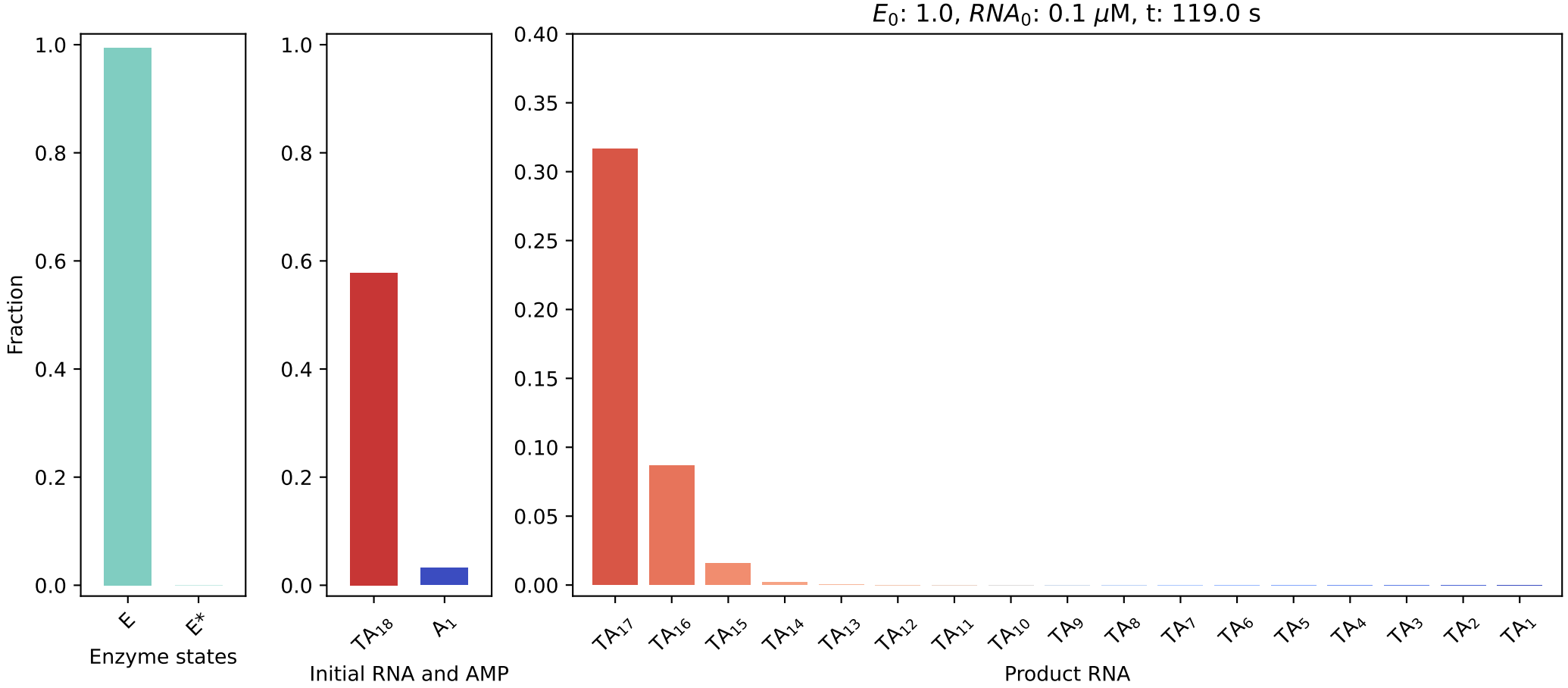
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Enzyme states
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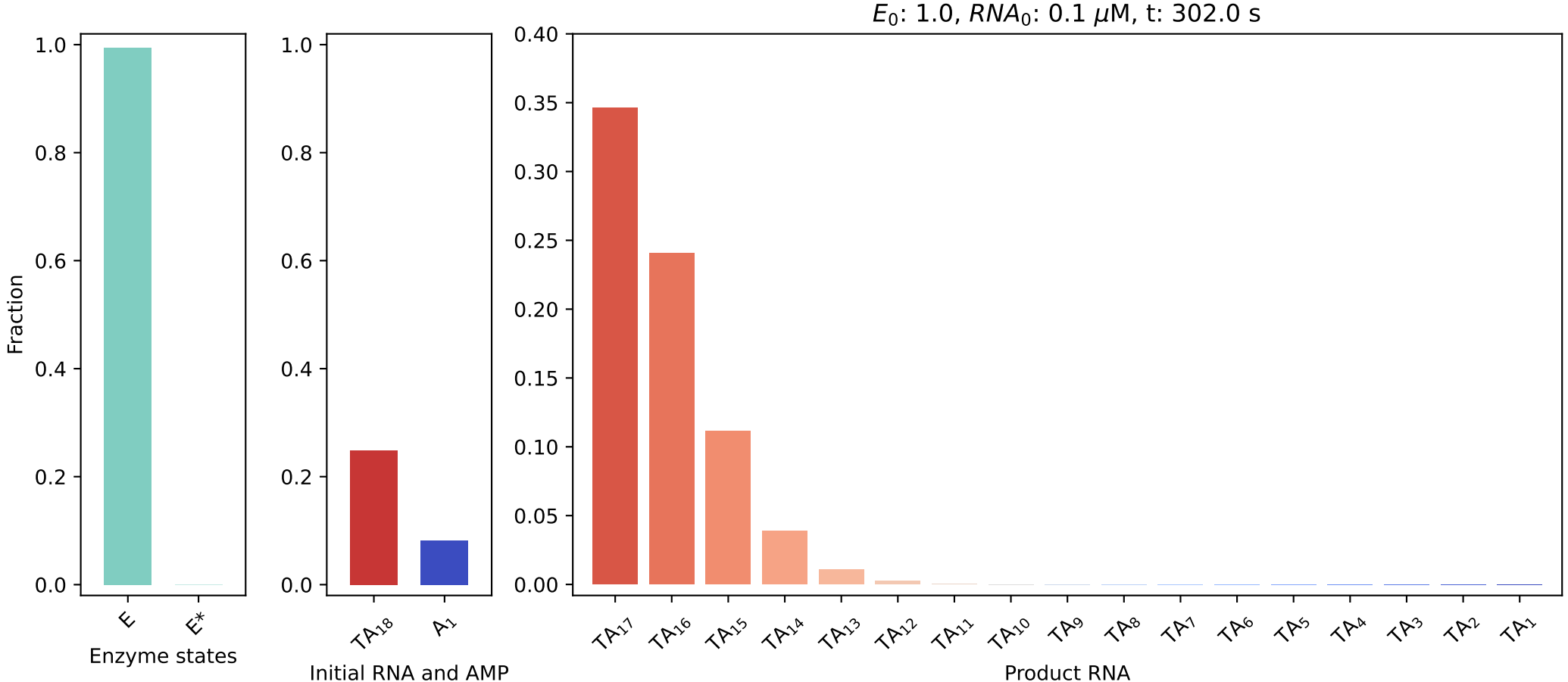
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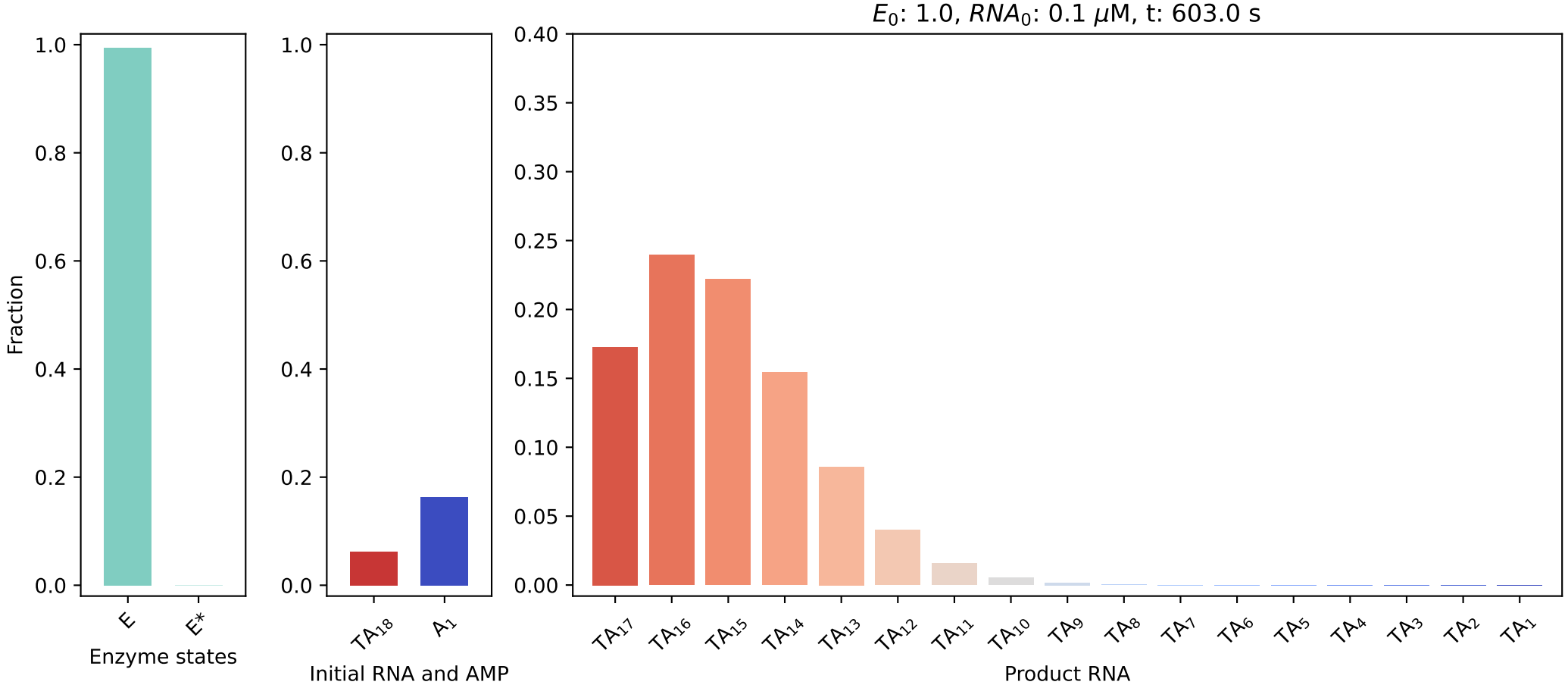
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Enzyme states
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A1
Initial RNA and AMP
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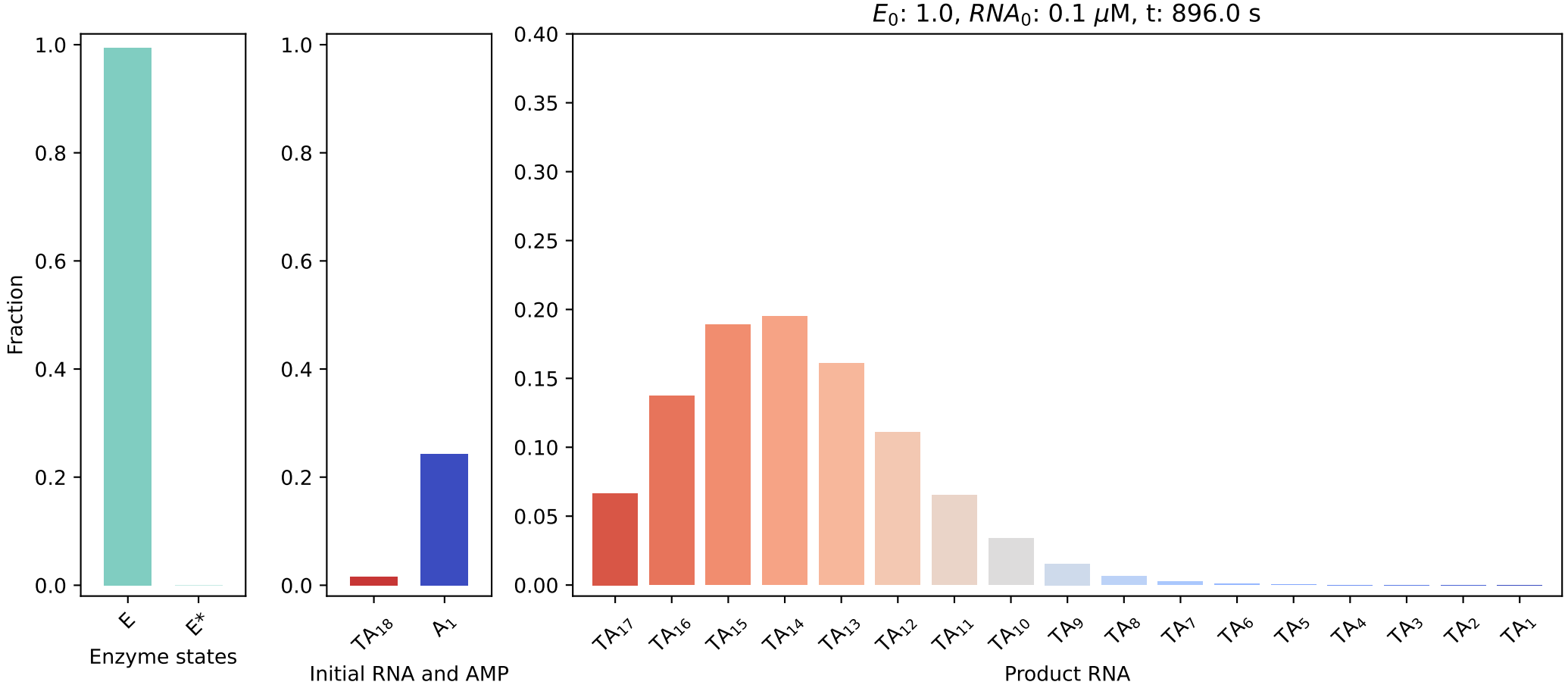
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Enzyme states
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A1
Initial RNA and AMP
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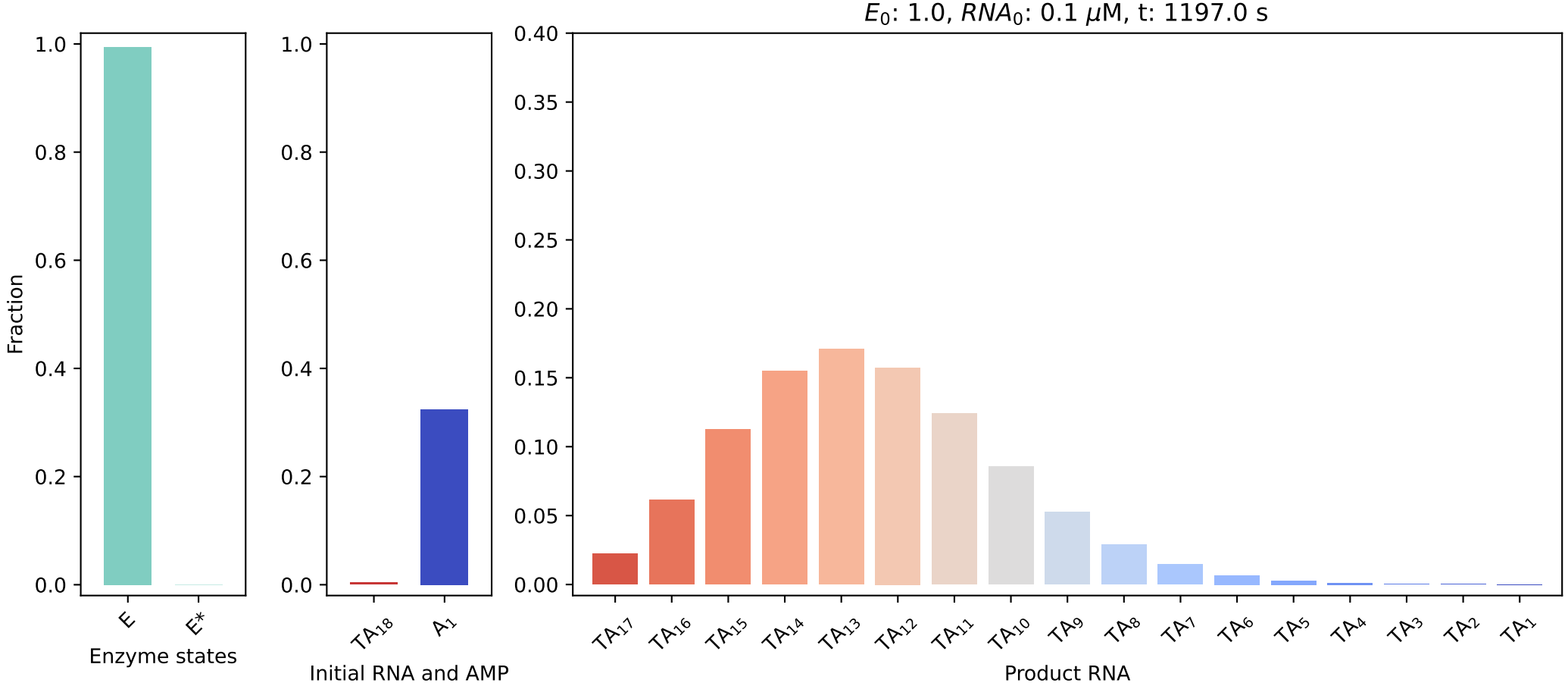
Product RNA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E*
Enzyme states
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A_1
Initial RNA and AMP
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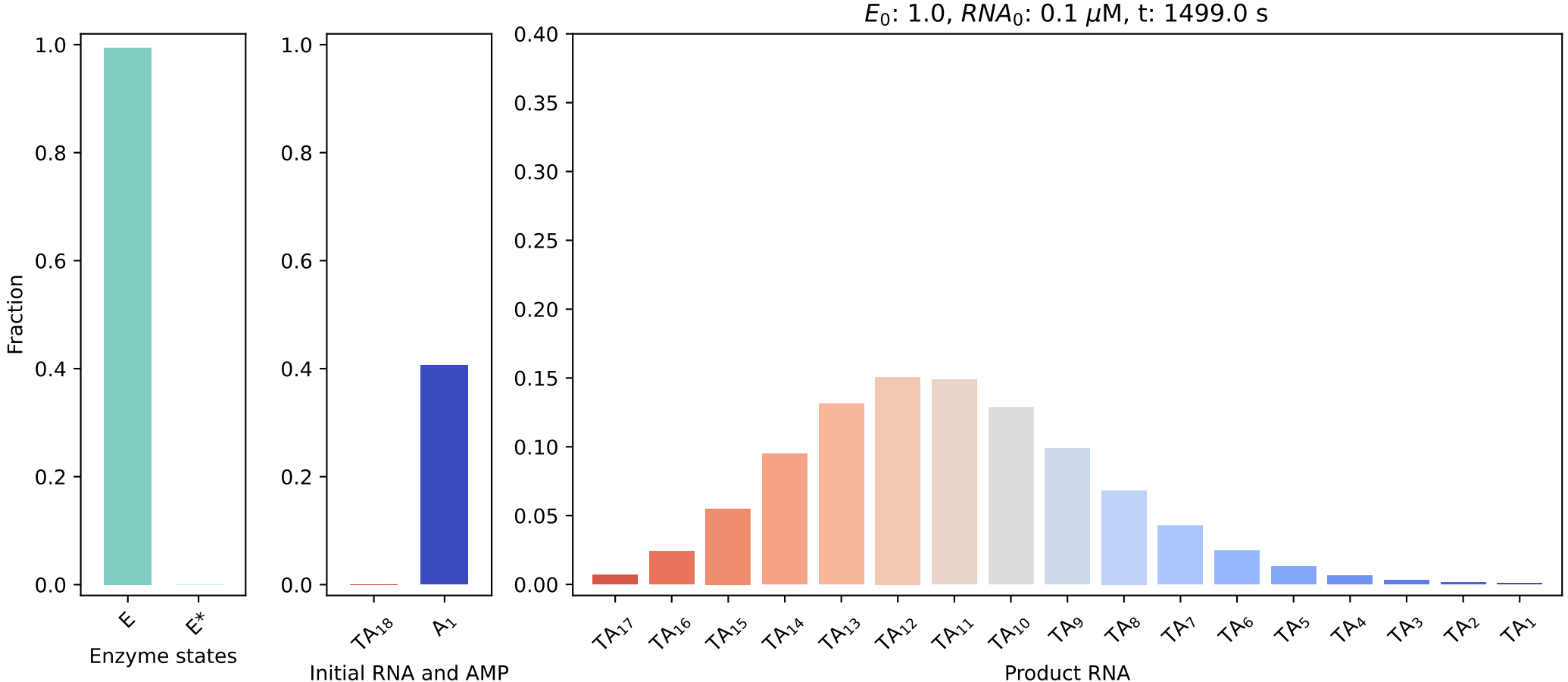
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Enzyme states
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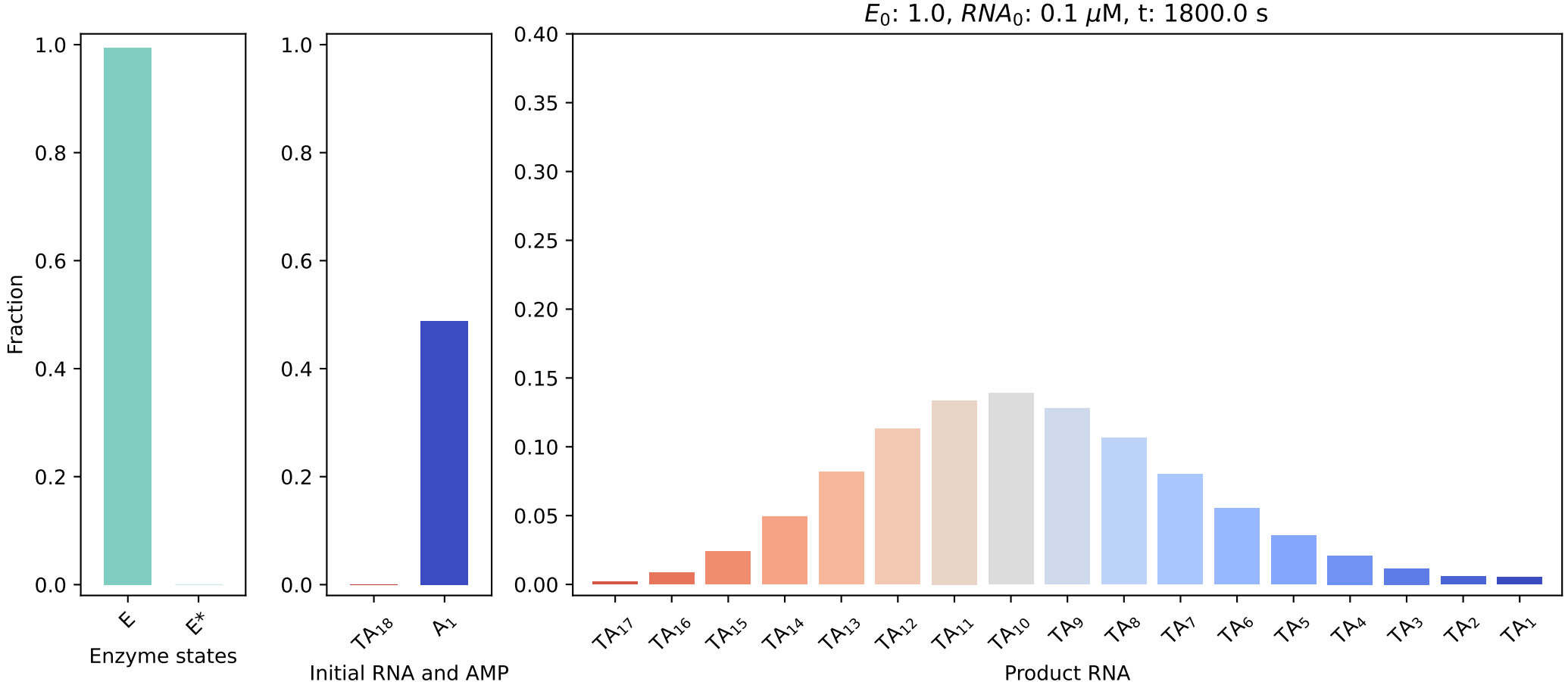
Product RNA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E*
Enzyme states
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A_1
Initial RNA and AMP
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0.15
0.10
0.05
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TA_{16}
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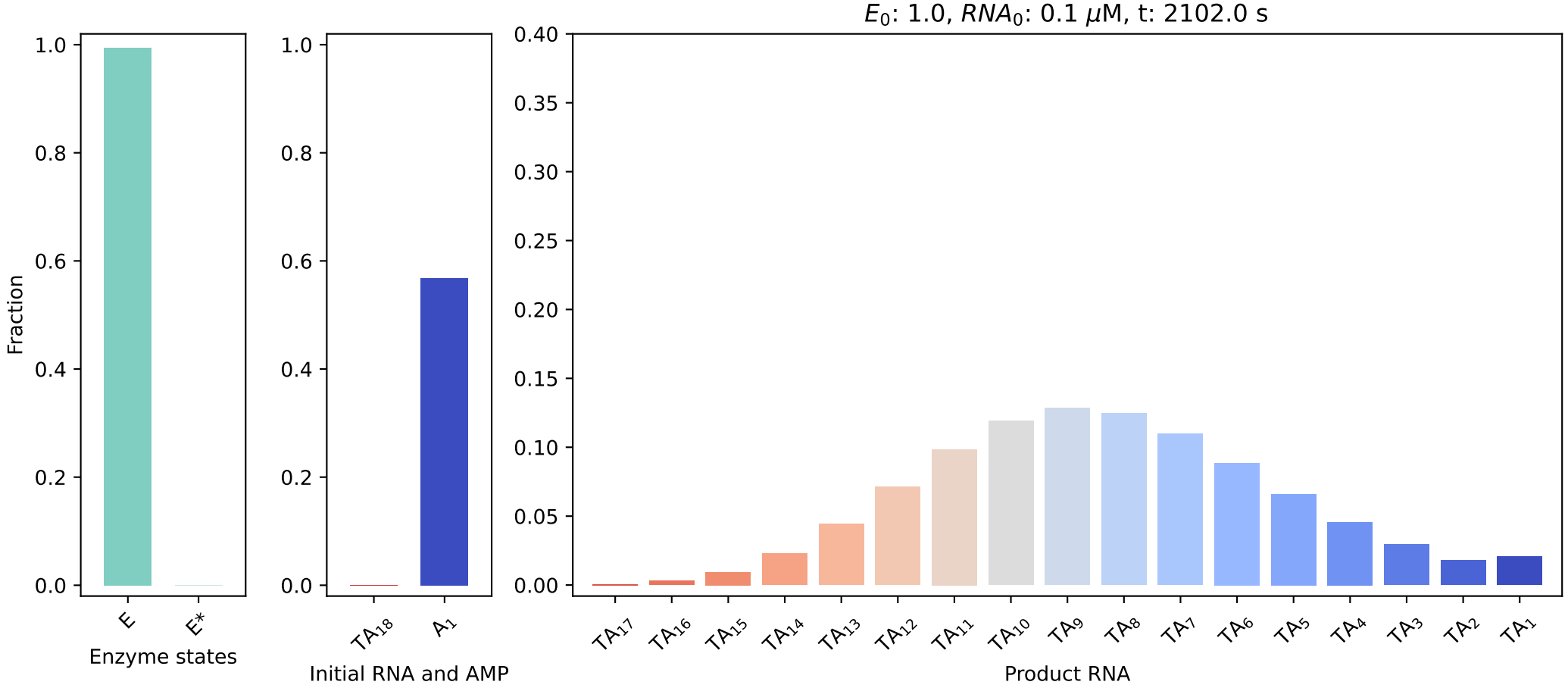
Product RNA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E*
Enzyme states
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A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
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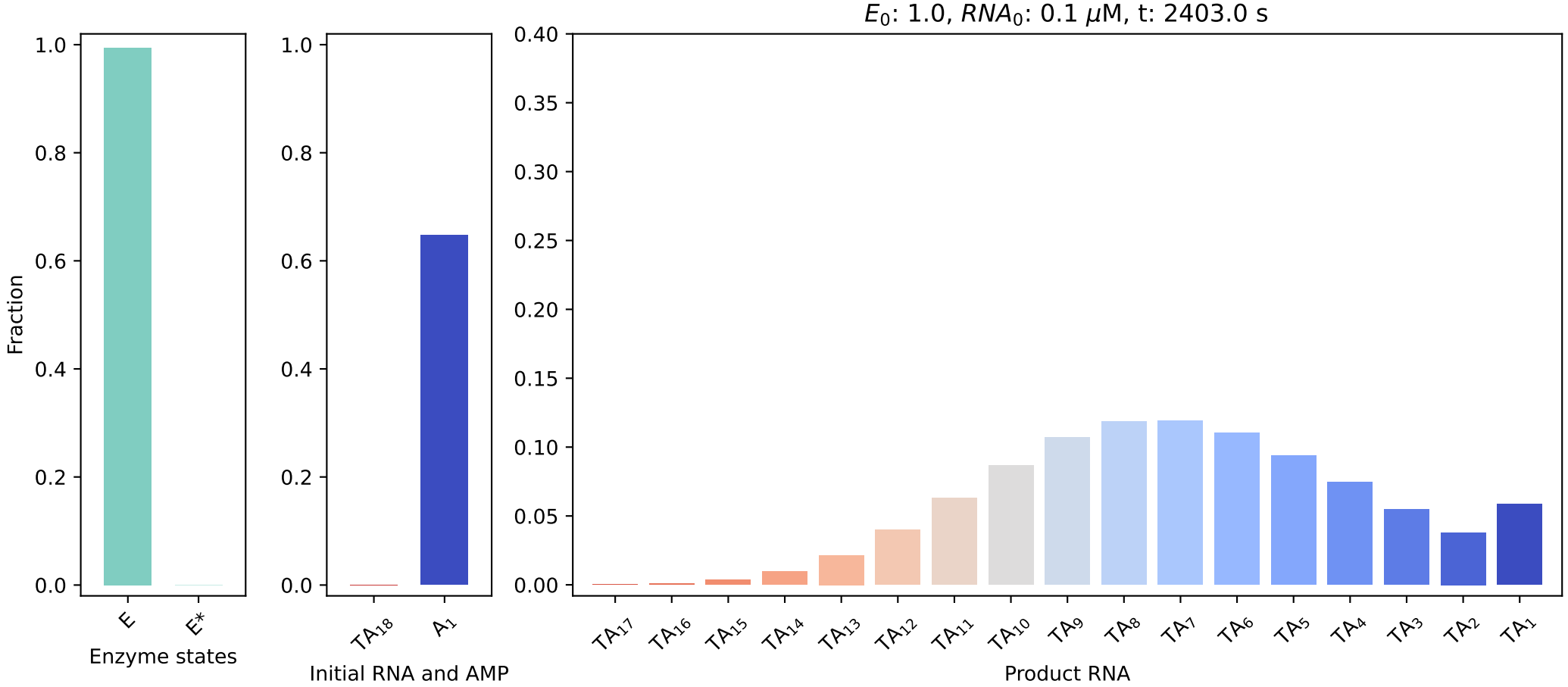
Product RNA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E*
Enzyme states
TA18
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Initial RNA and AMP
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0.20
0.15
0.10
0.05
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TA15
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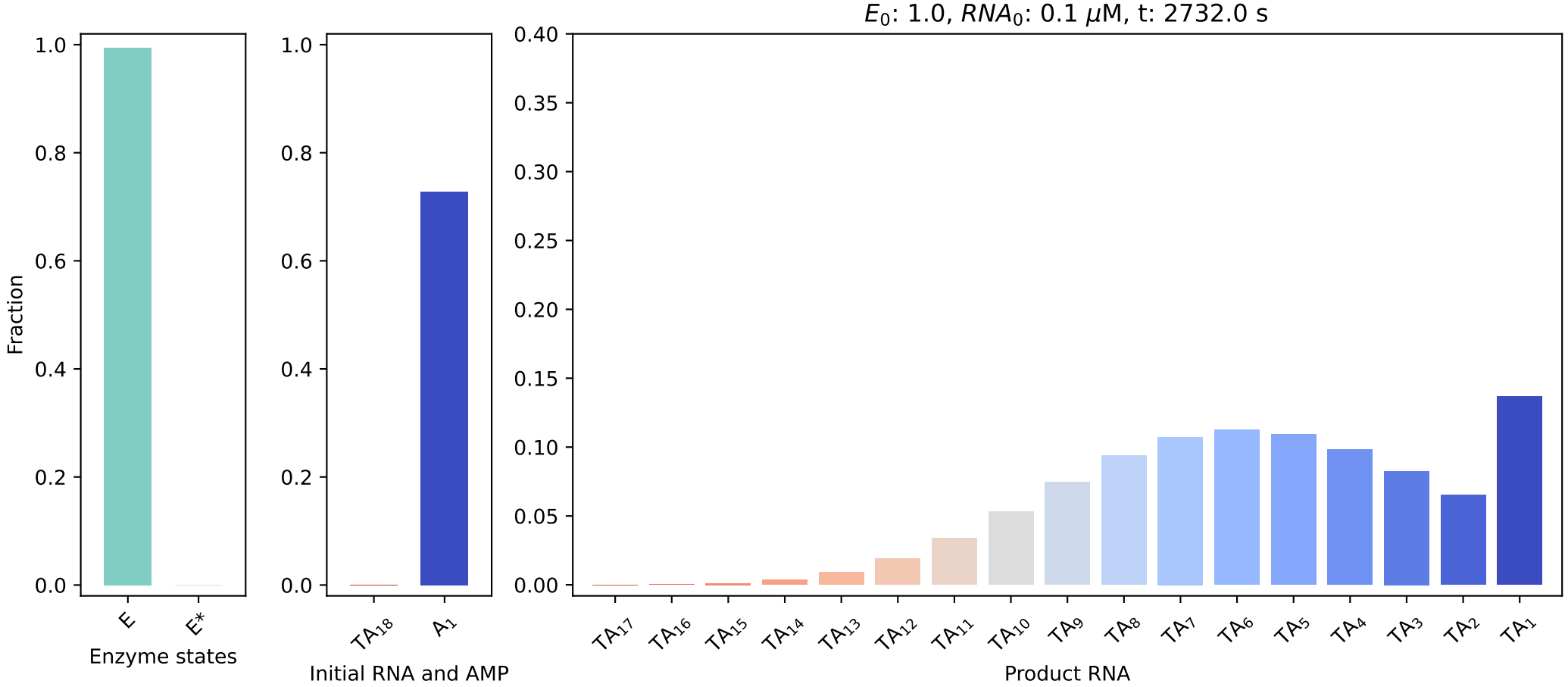
Product RNA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E*
Enzyme states
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0.15
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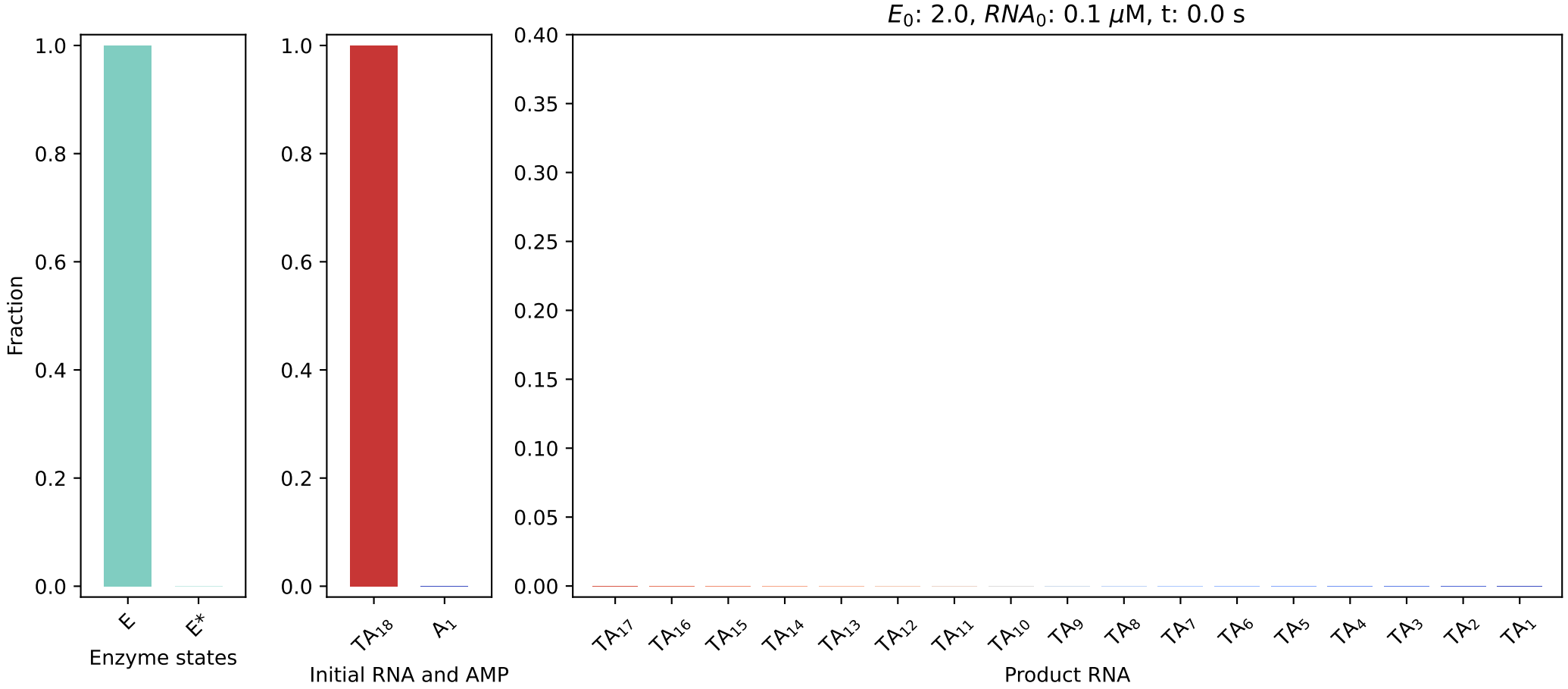
Product RNA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Enzyme states
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Initial RNA and AMP
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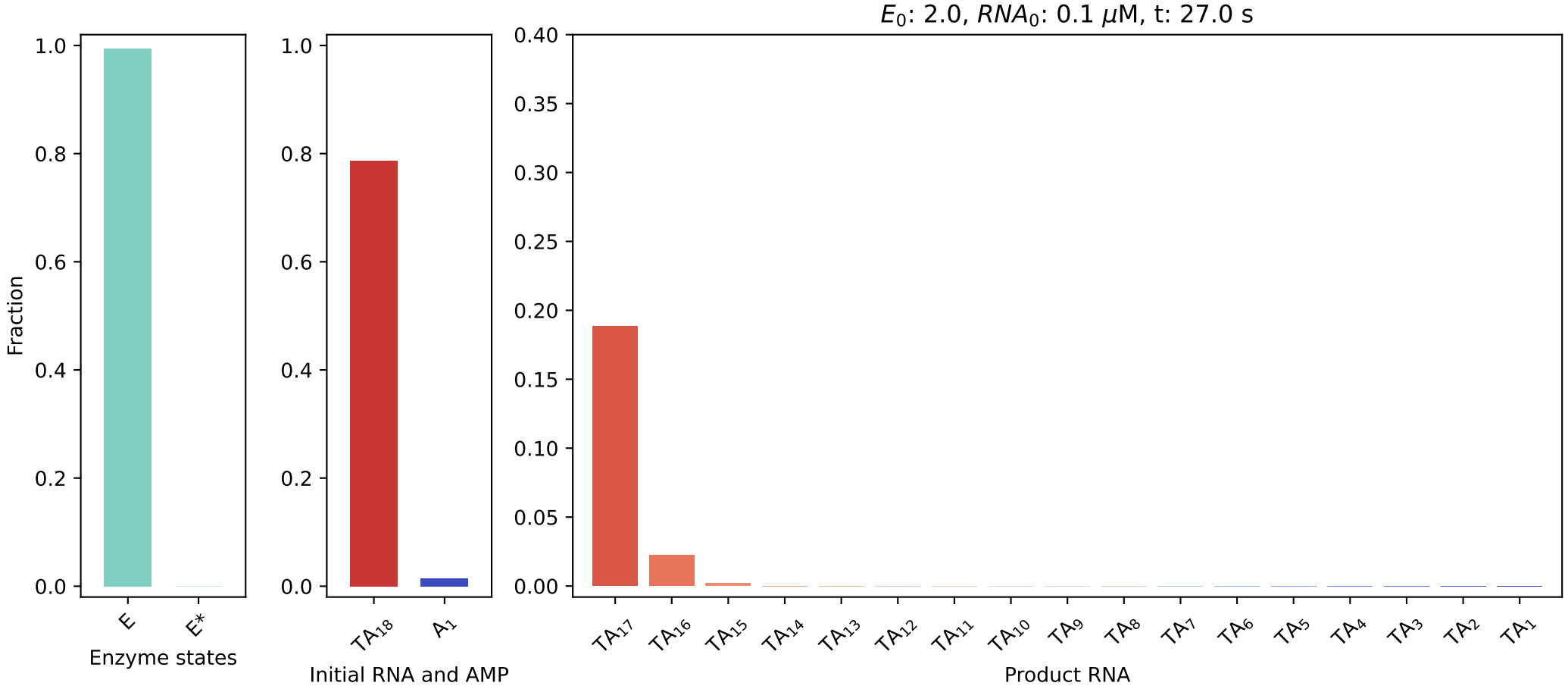
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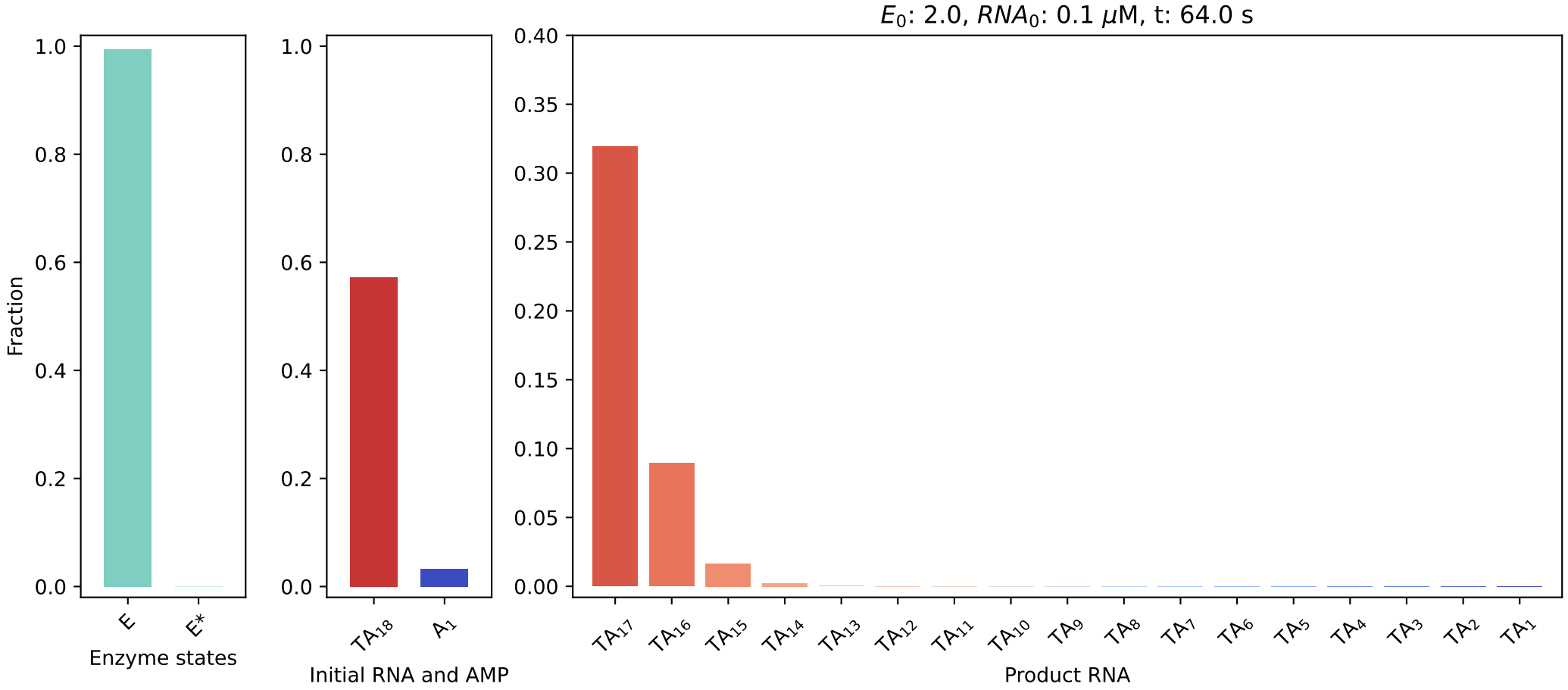
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Initial RNA and AMP
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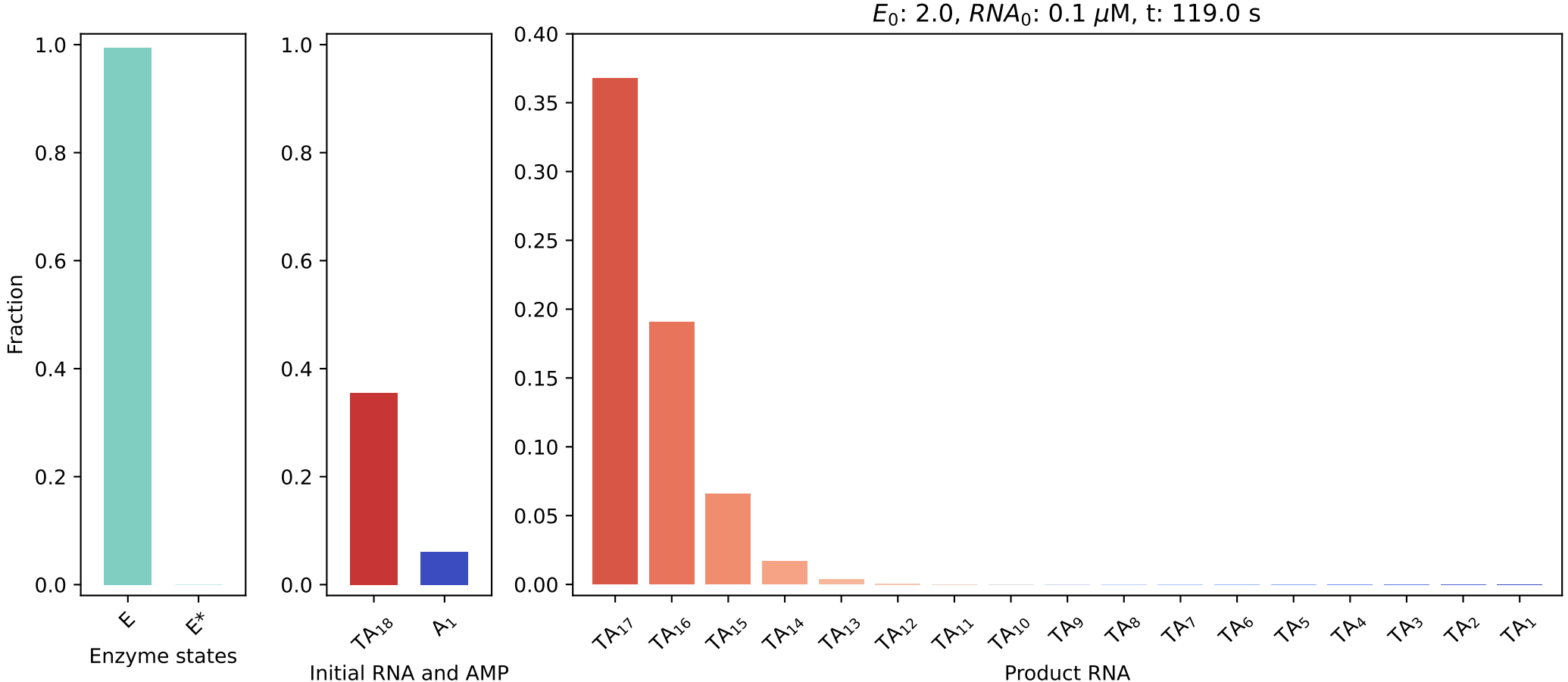
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A_1
Initial RNA and AMP
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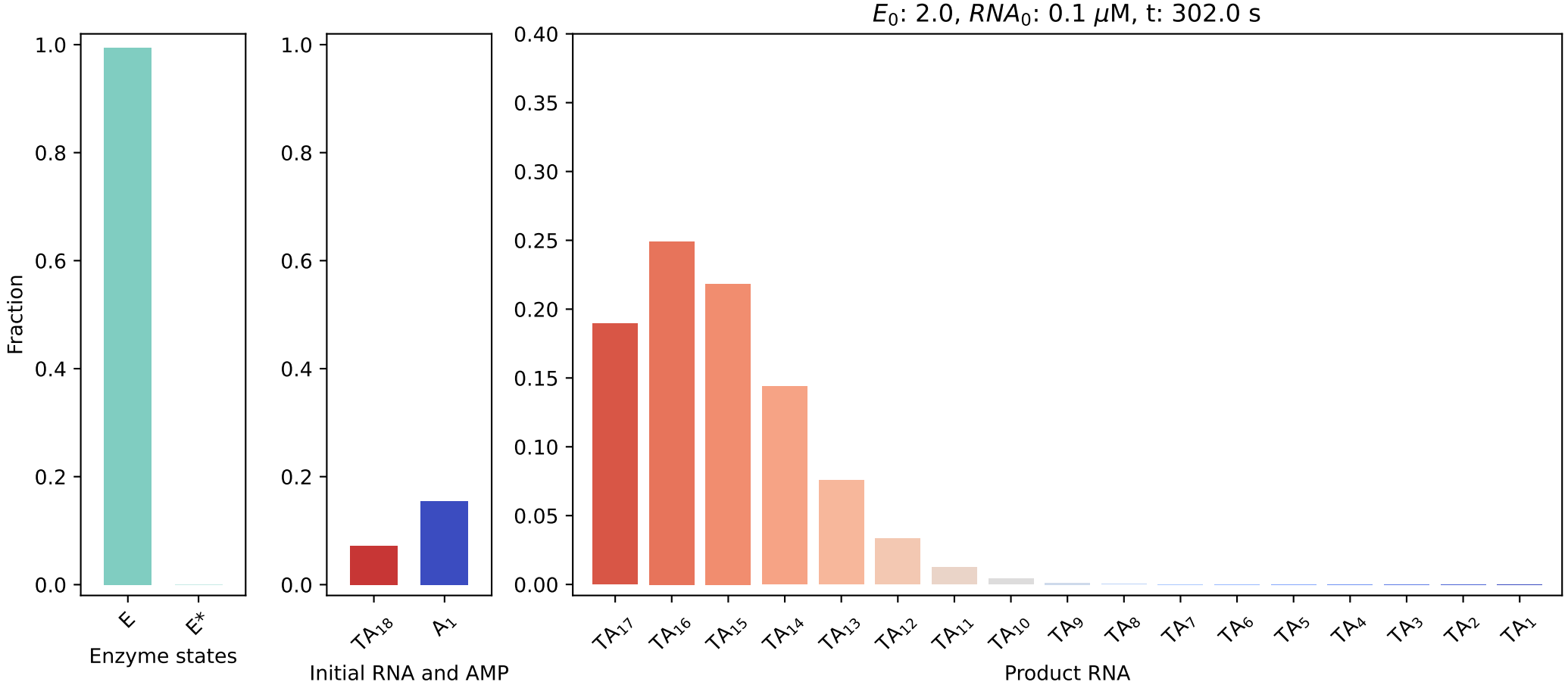
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Enzyme states
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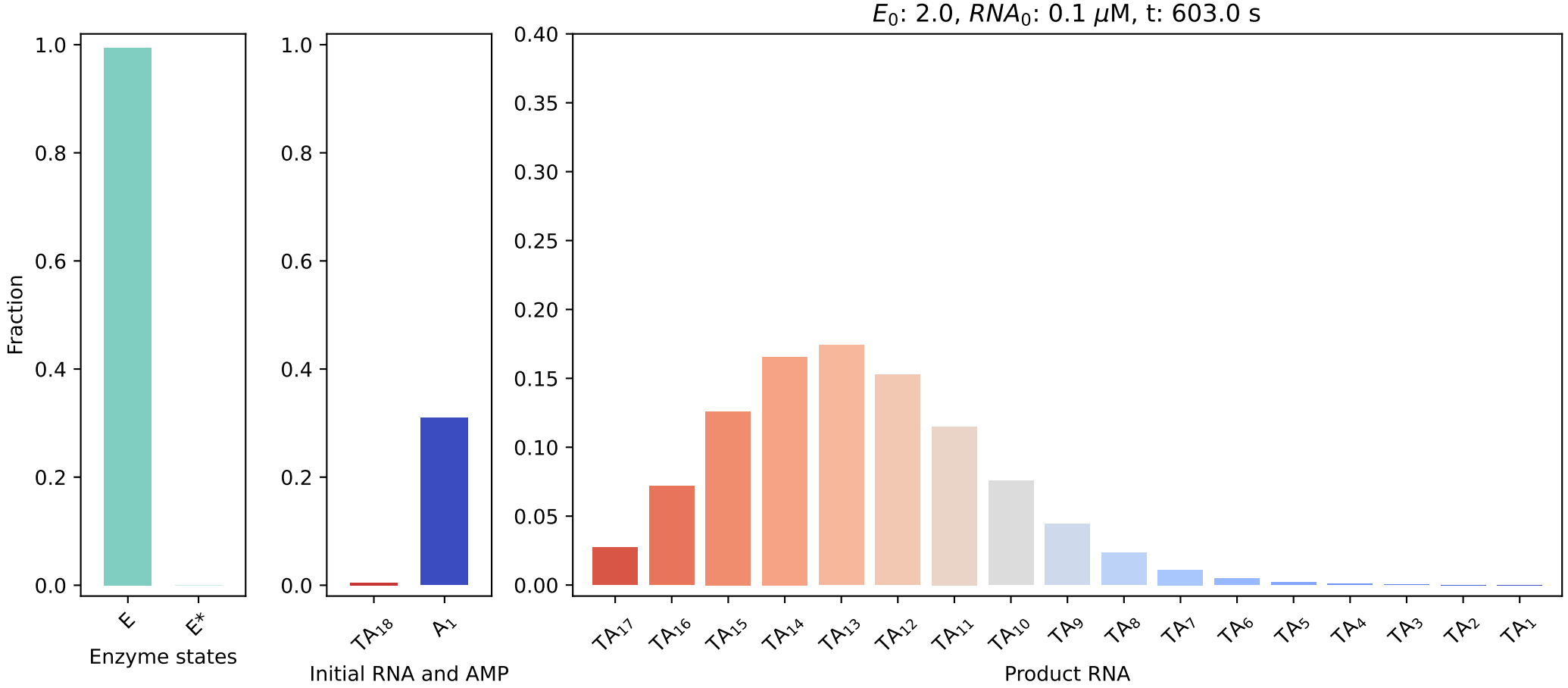
Product RNA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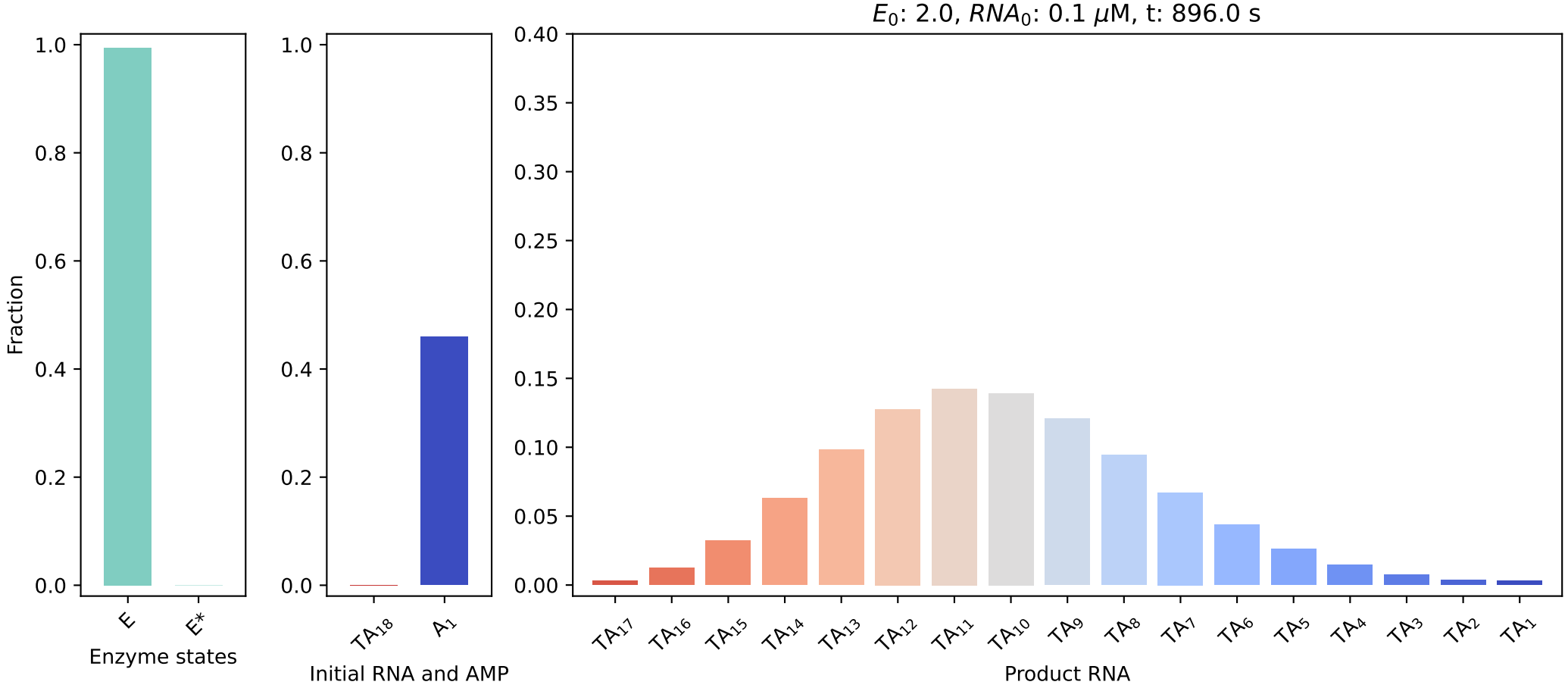
Product RNA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Enzyme states
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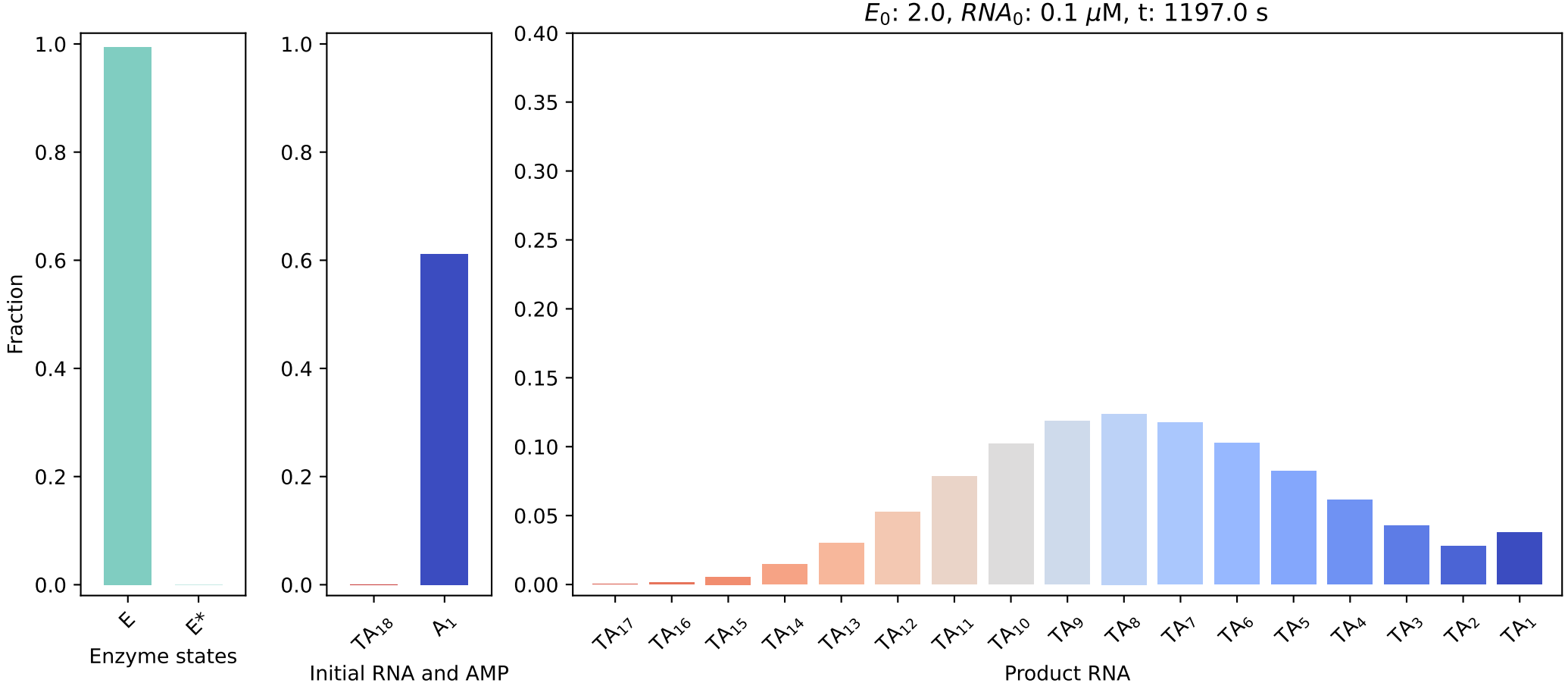
Product RNA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Enzyme states
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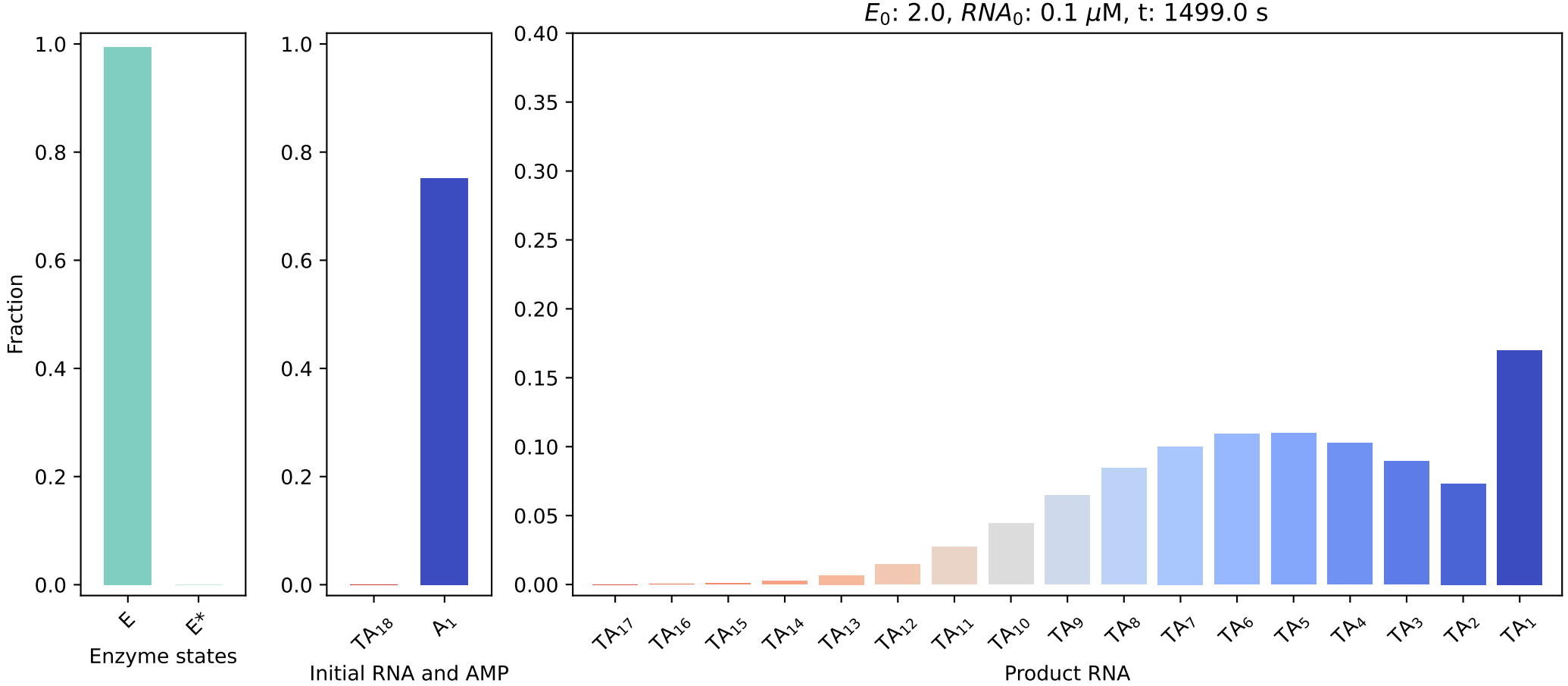
Product RNA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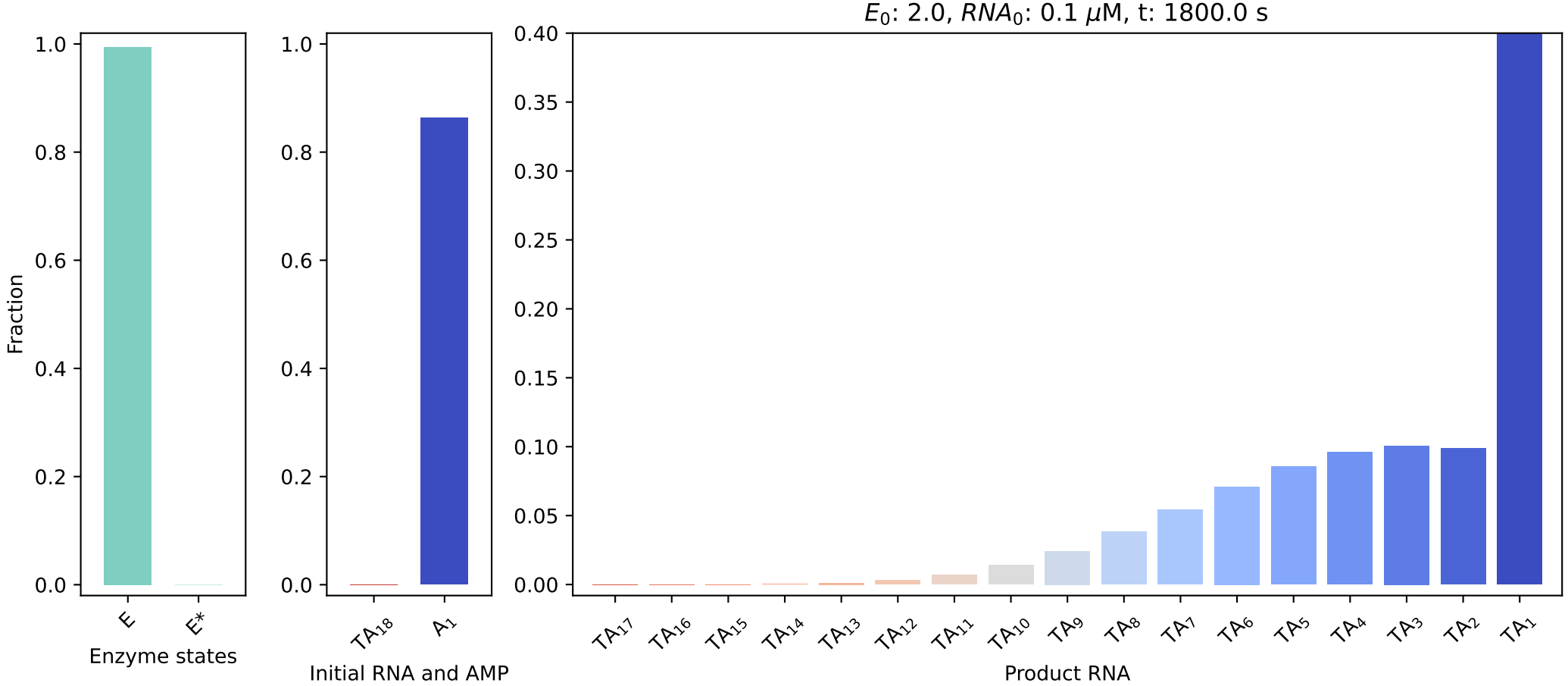
Product RNA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Enzyme states
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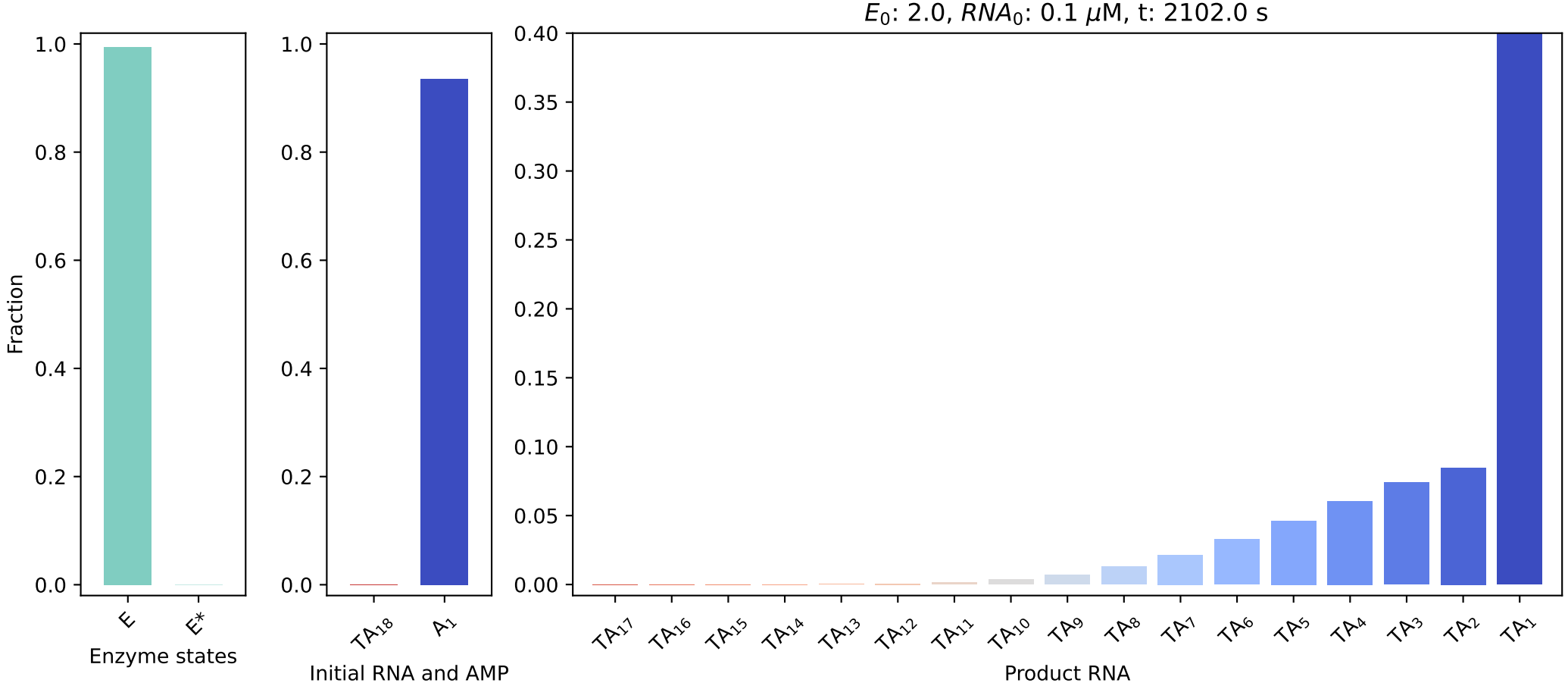
Product RNA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Enzyme states
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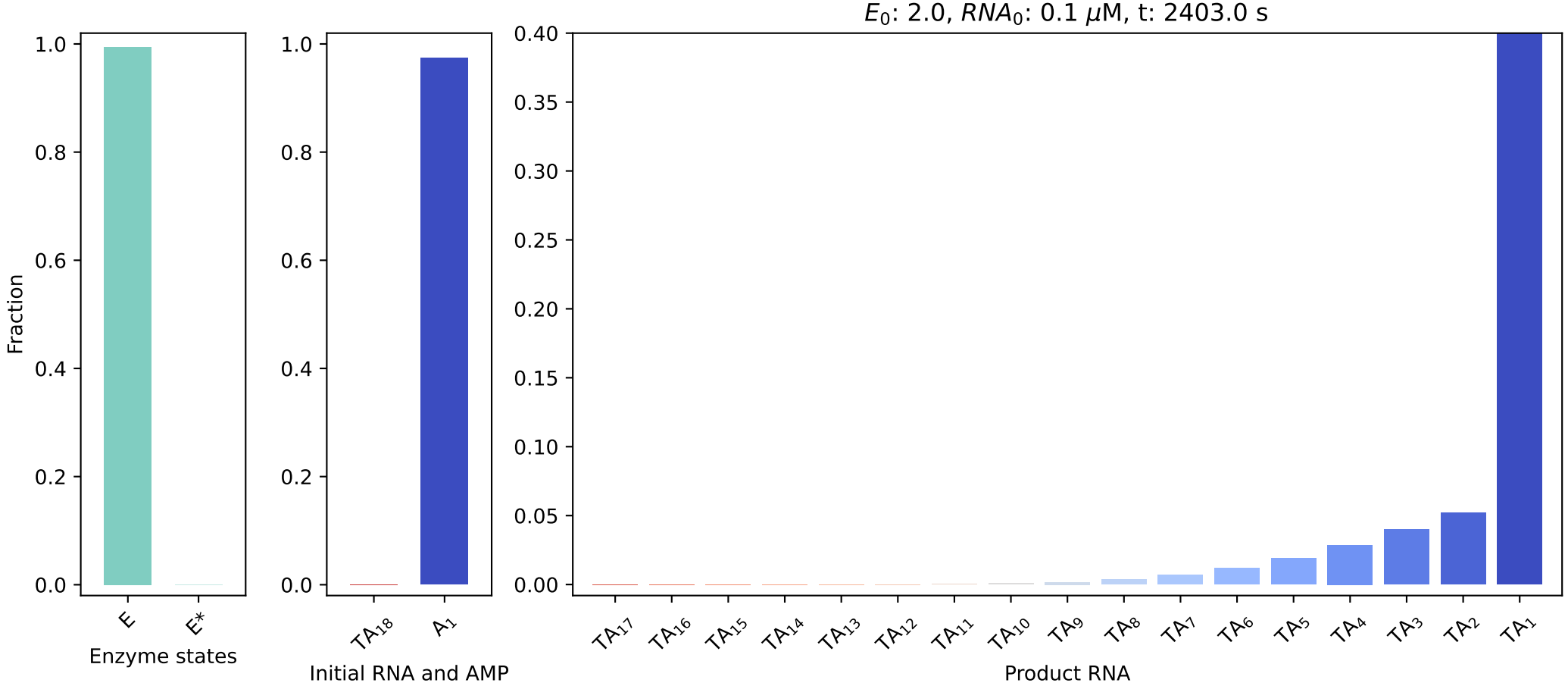
Product RNA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Enzyme states
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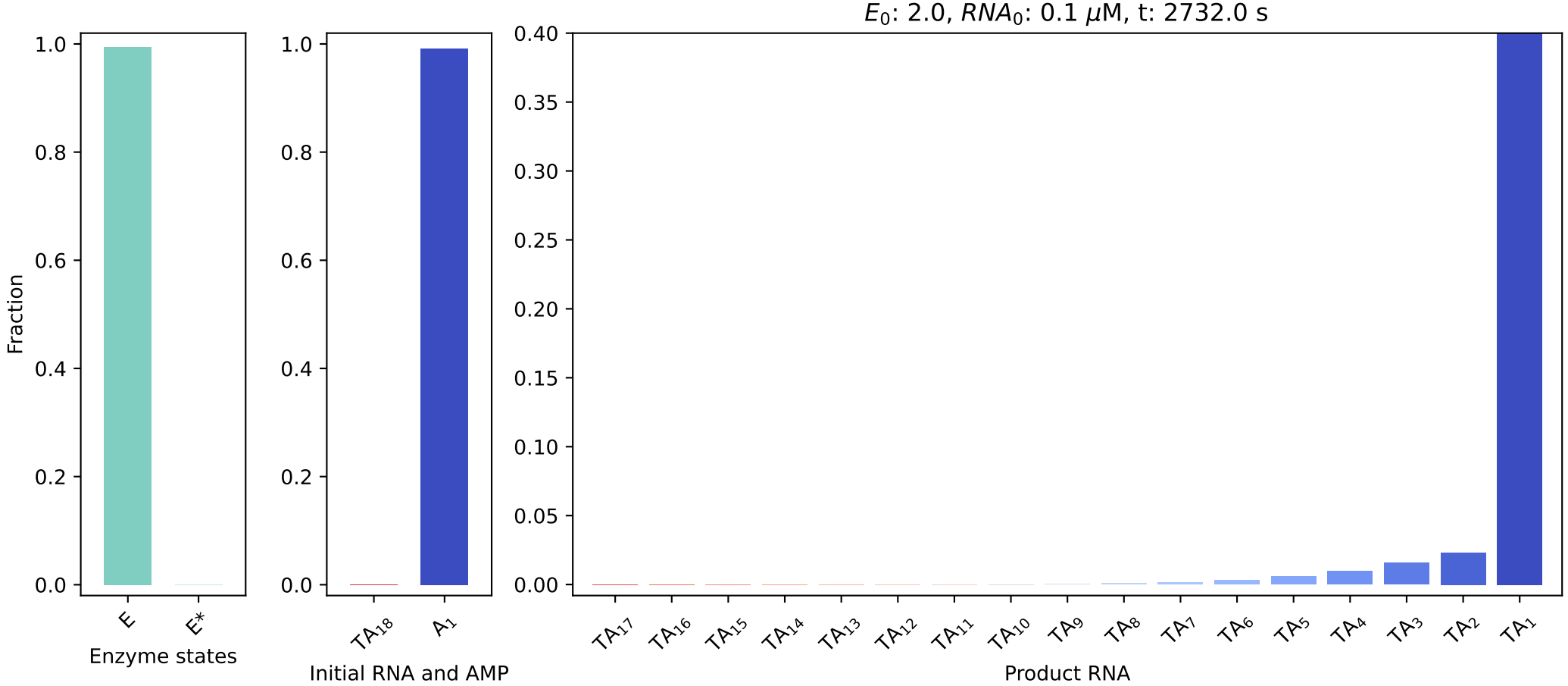
Product RNA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Enzyme states
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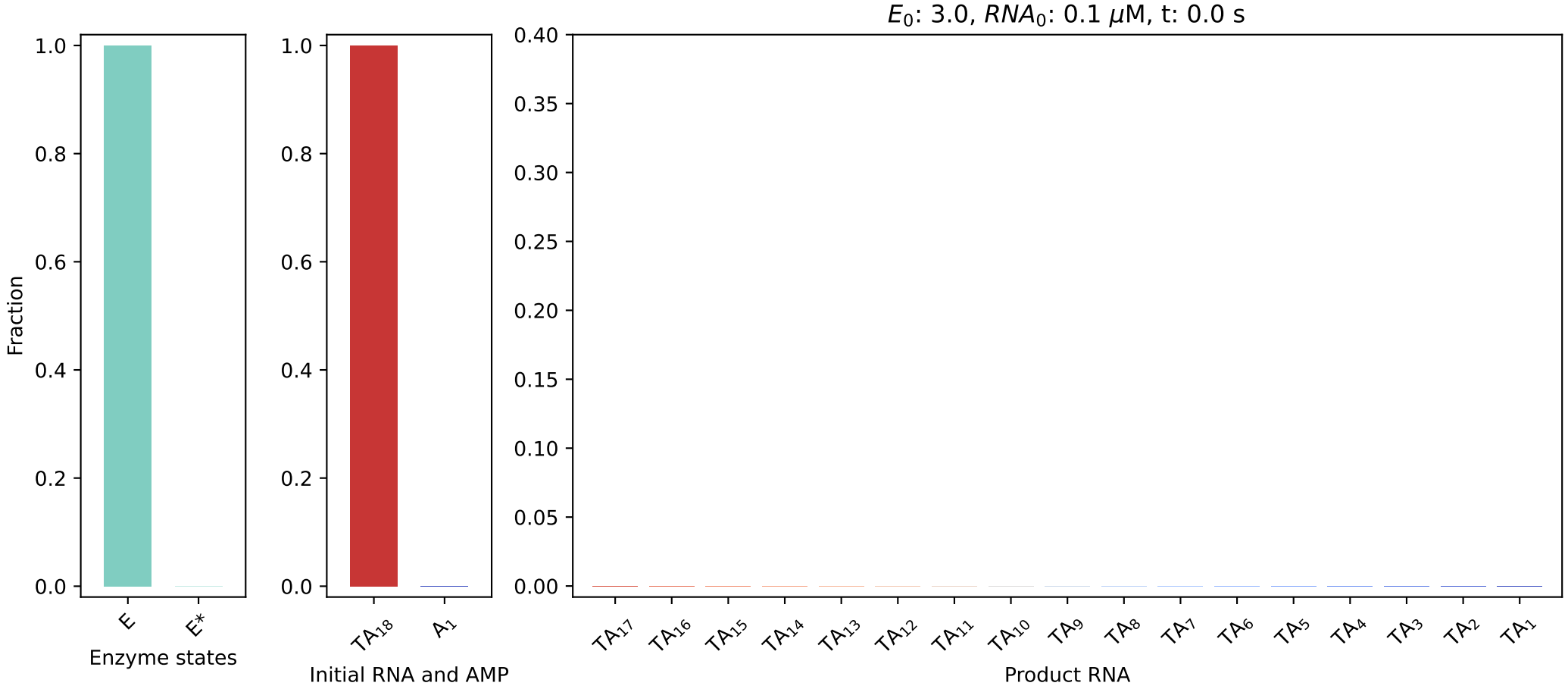
Product RNA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Initial RNA and AMP
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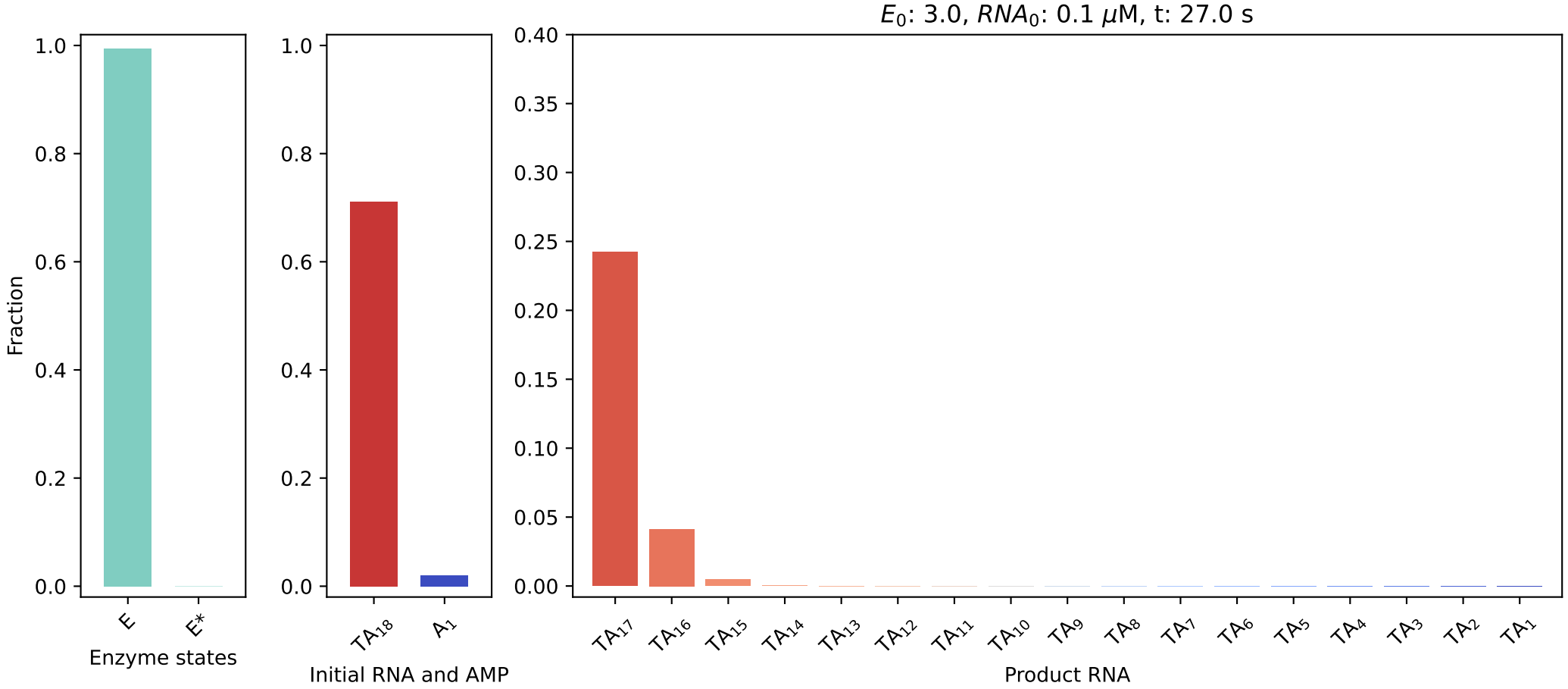
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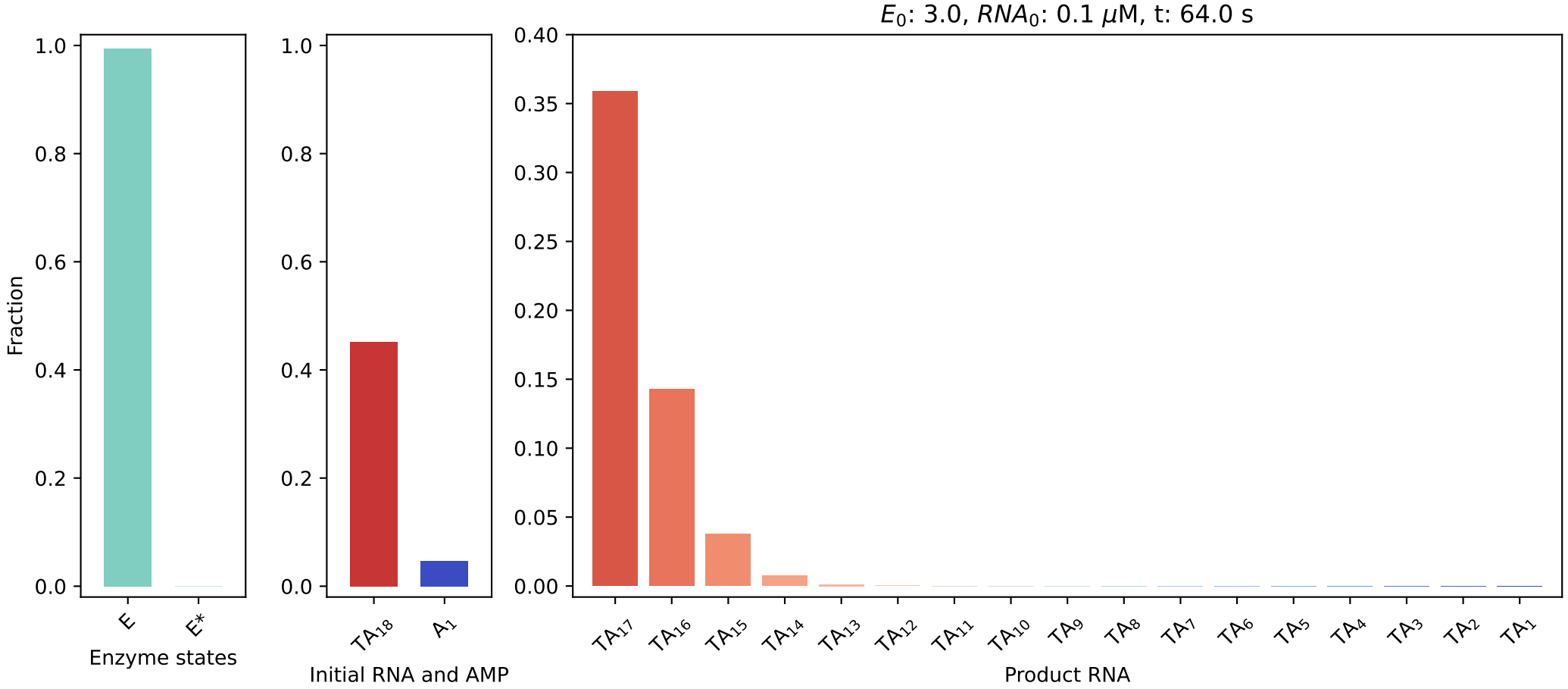
Product RNA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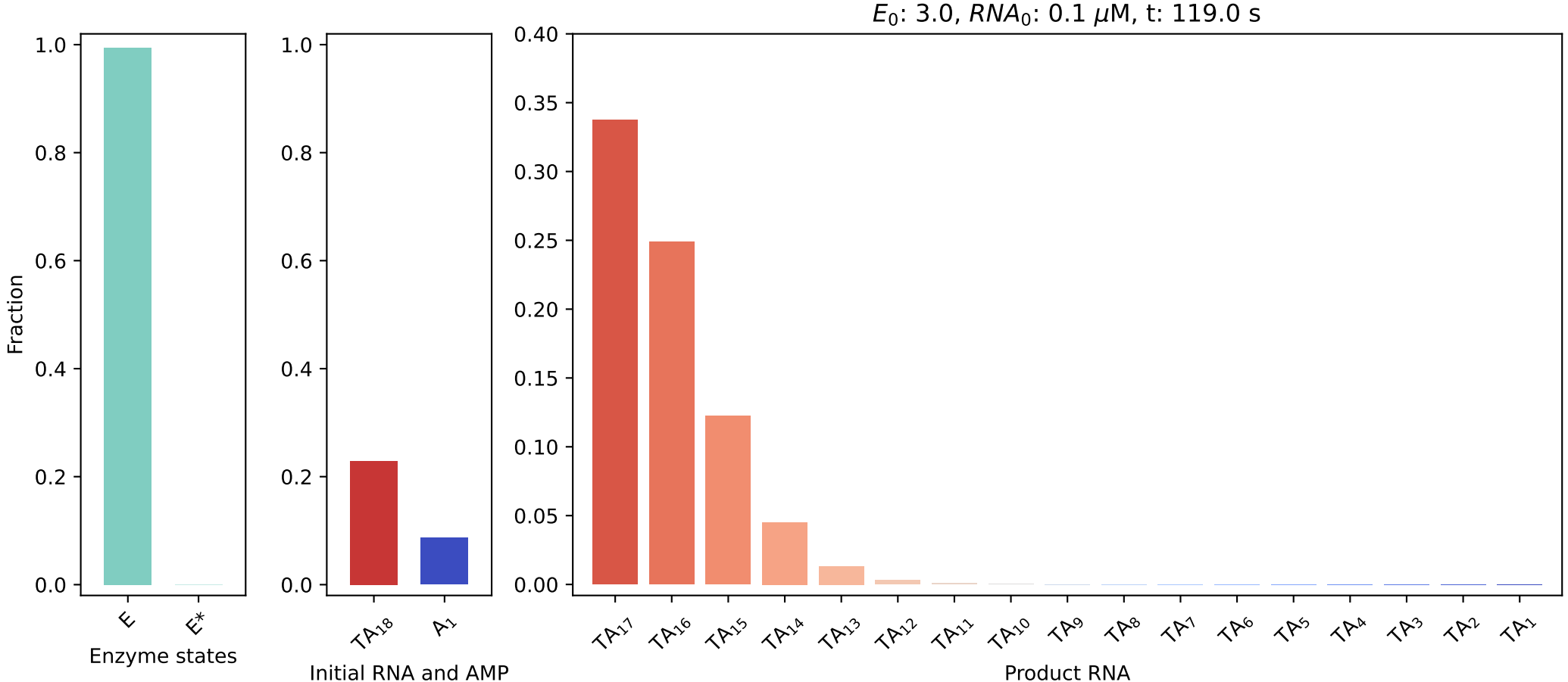
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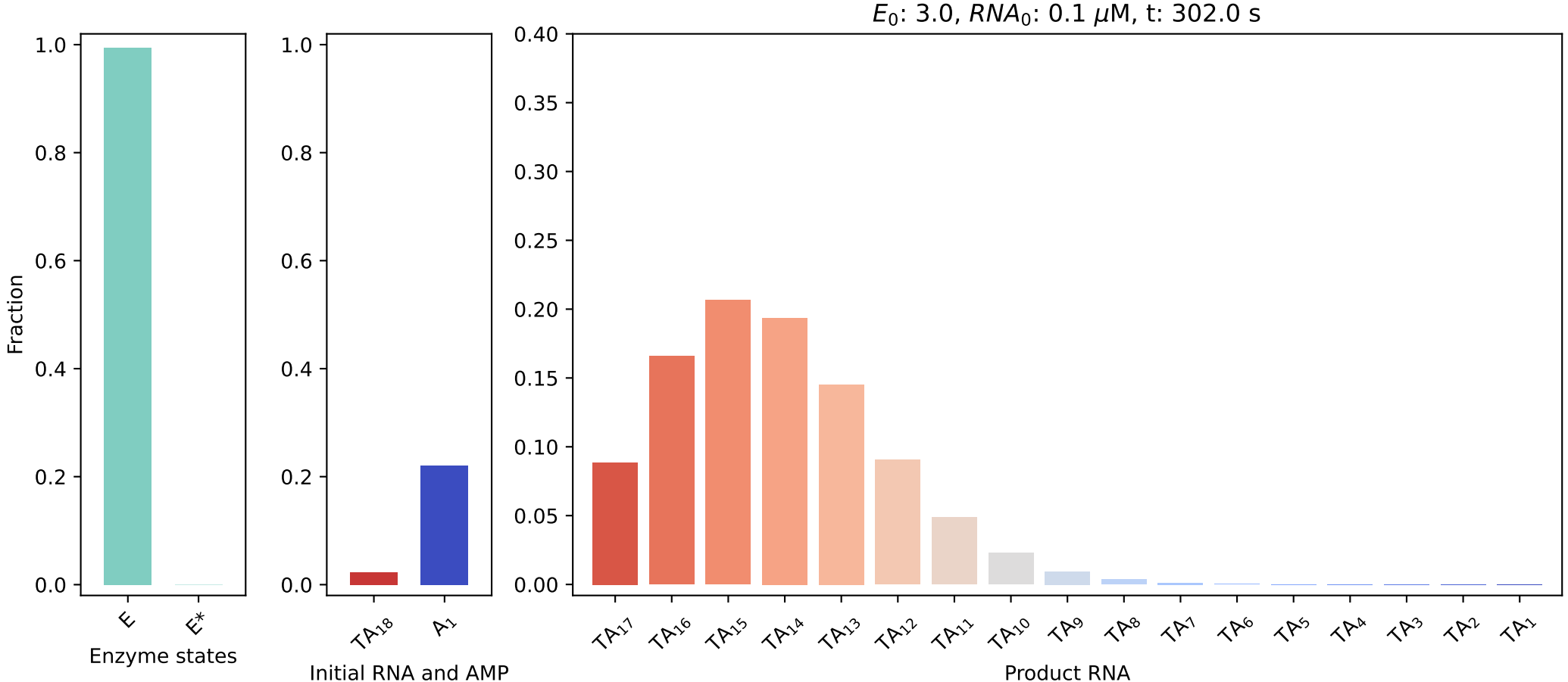
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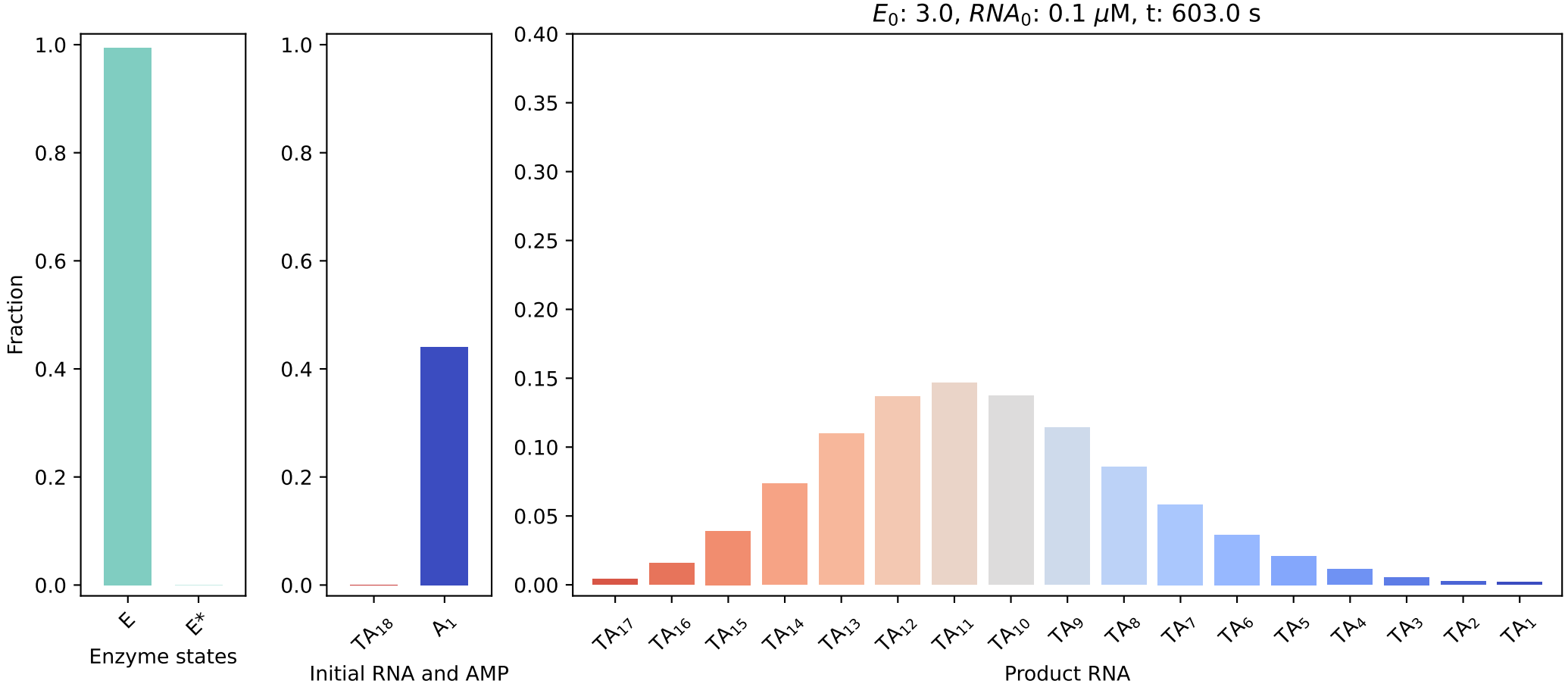
TA_4
TA_3
TA_2
TA_1
Product RNA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E
E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
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0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
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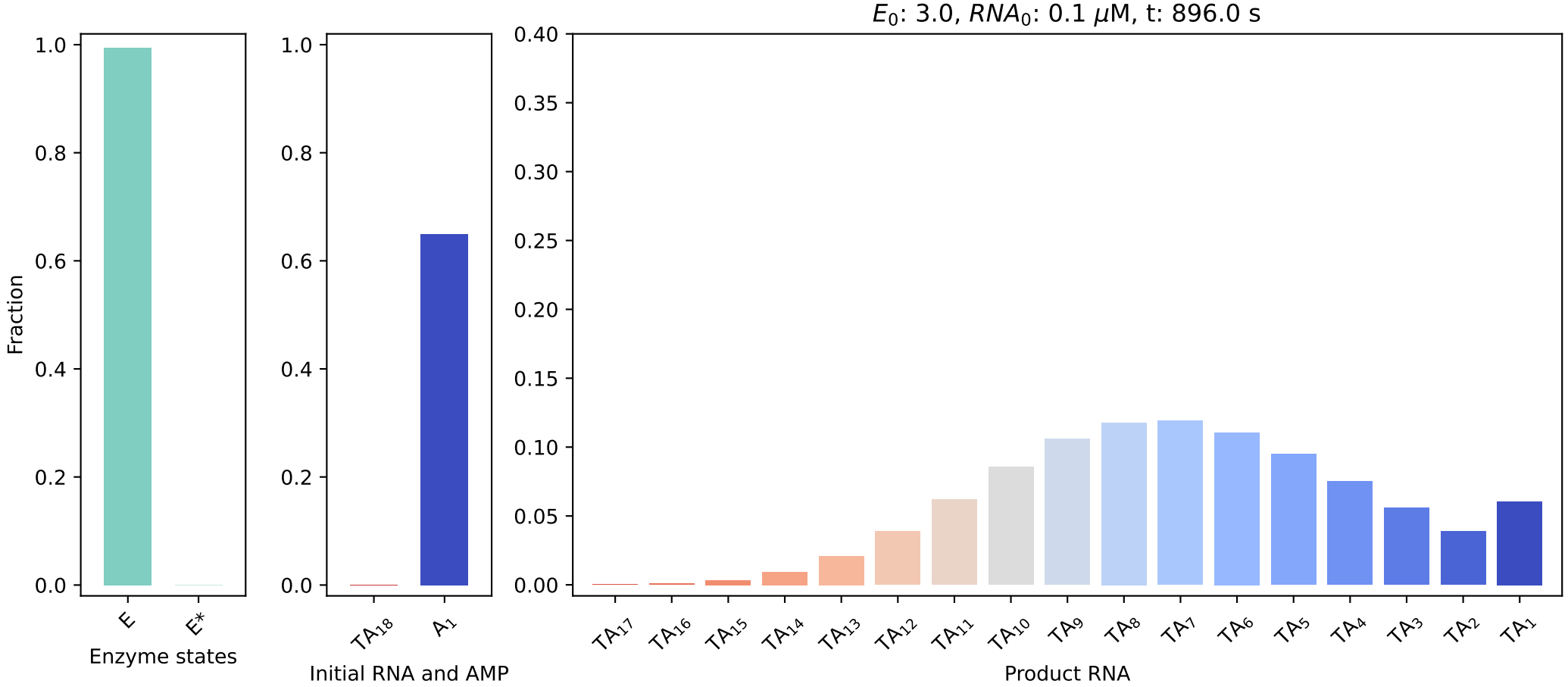
TA_5
TA_4
TA_3
TA_2
TA_1
Product RNA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Enzyme states
TA18
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Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
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TA17
TA16
TA15
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TA7
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TA5
TA4
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TA2
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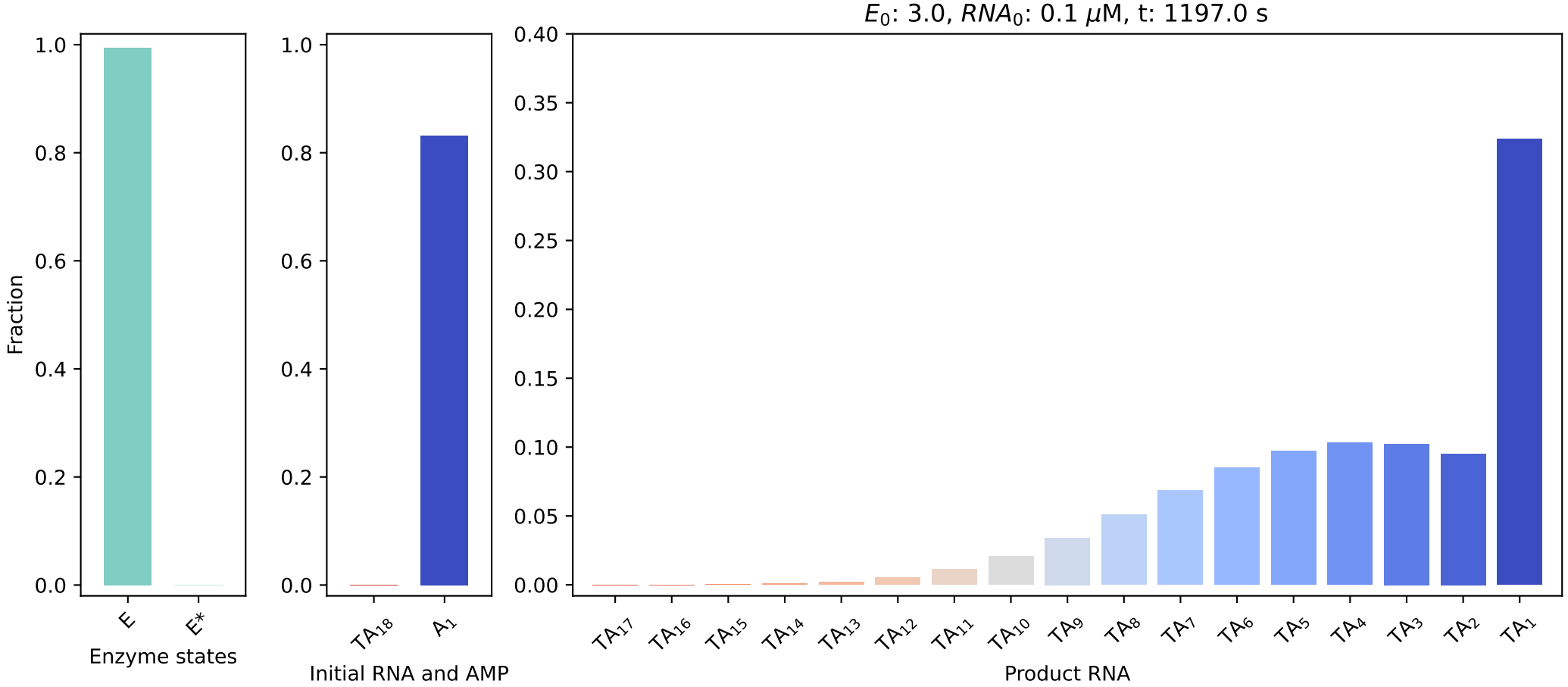
Product RNA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Enzyme states
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Initial RNA and AMP
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0.15
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0.05
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TA17
TA16
TA15
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TA8
TA7
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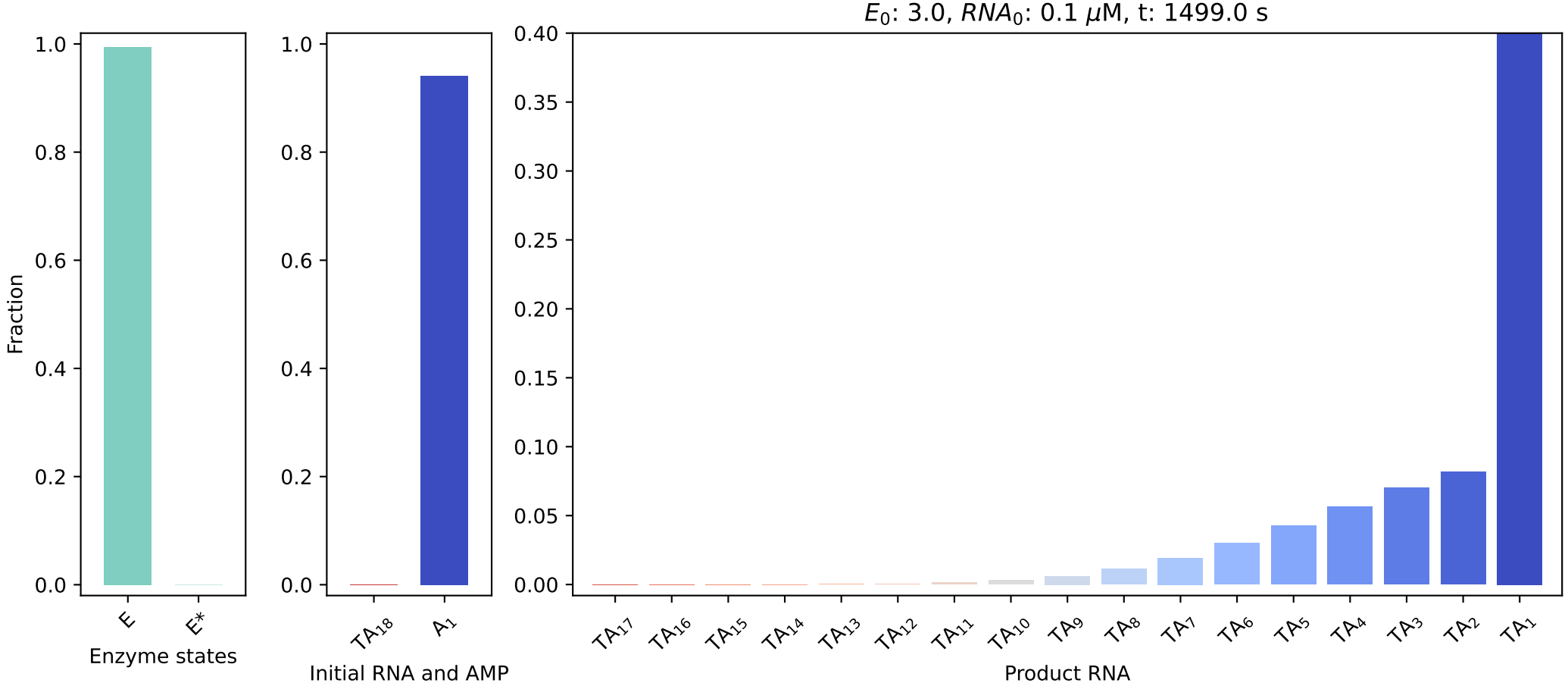
TA5
TA4
TA3
TA2
TA1
Product RNA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E*
Enzyme states
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A_1
Initial RNA and AMP
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0.20
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TA_{14}
TA_{13}
TA_{12}
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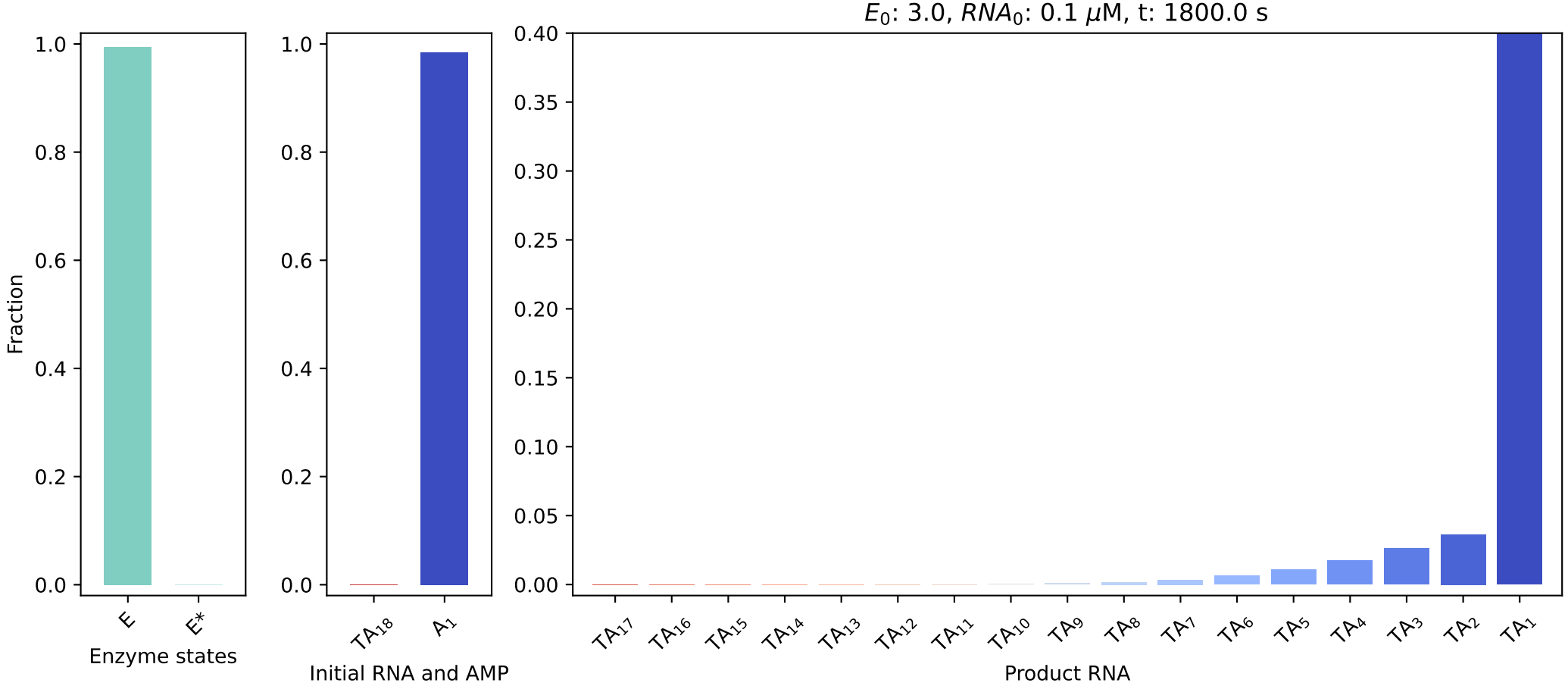
TA_4
TA_3
TA_2
TA_1
Product RNA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0.0
E
E*
Enzyme states
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A_1
Initial RNA and AMP
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TA_{16}
TA_{15}
TA_{14}
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TA_{12}
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TA_4
TA_3
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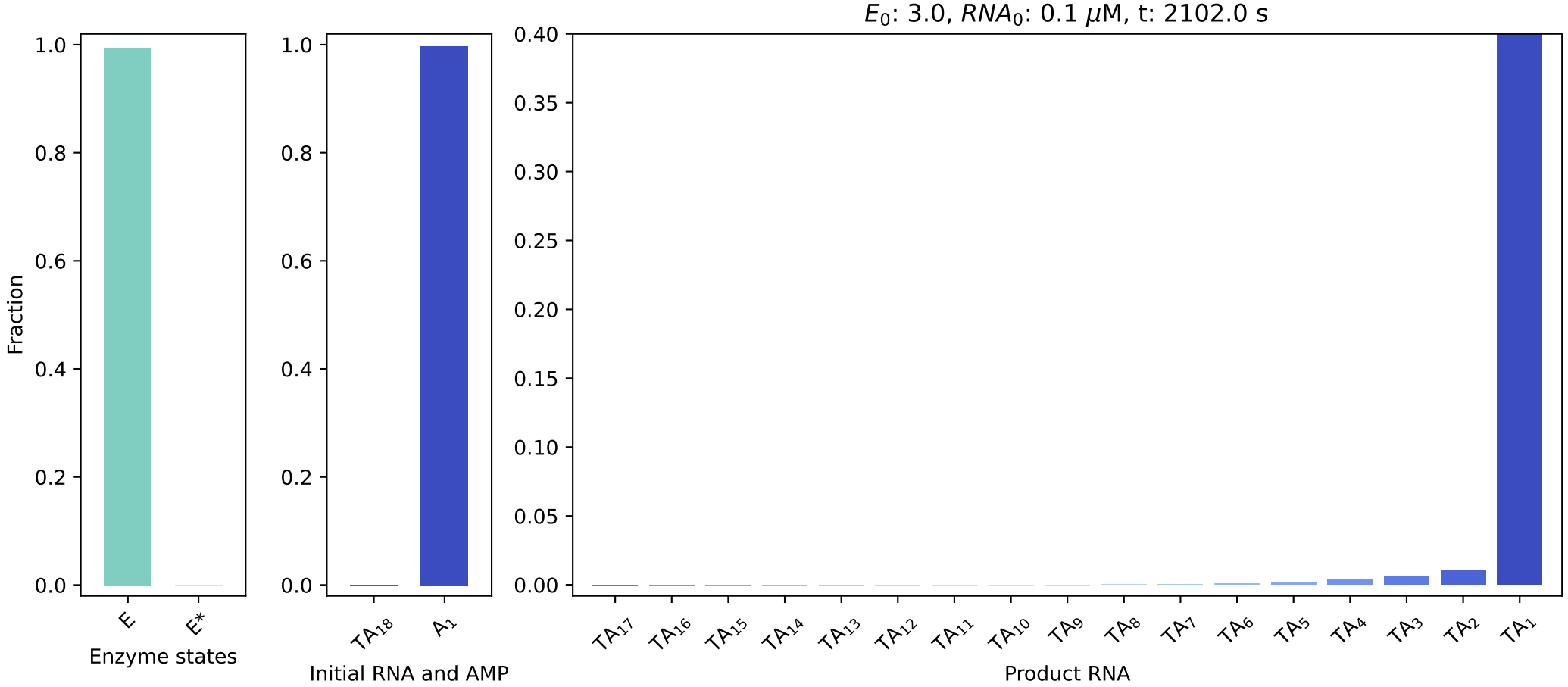
TA_1
Product RNA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E*
Enzyme states
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A_1
Initial RNA and AMP
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0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
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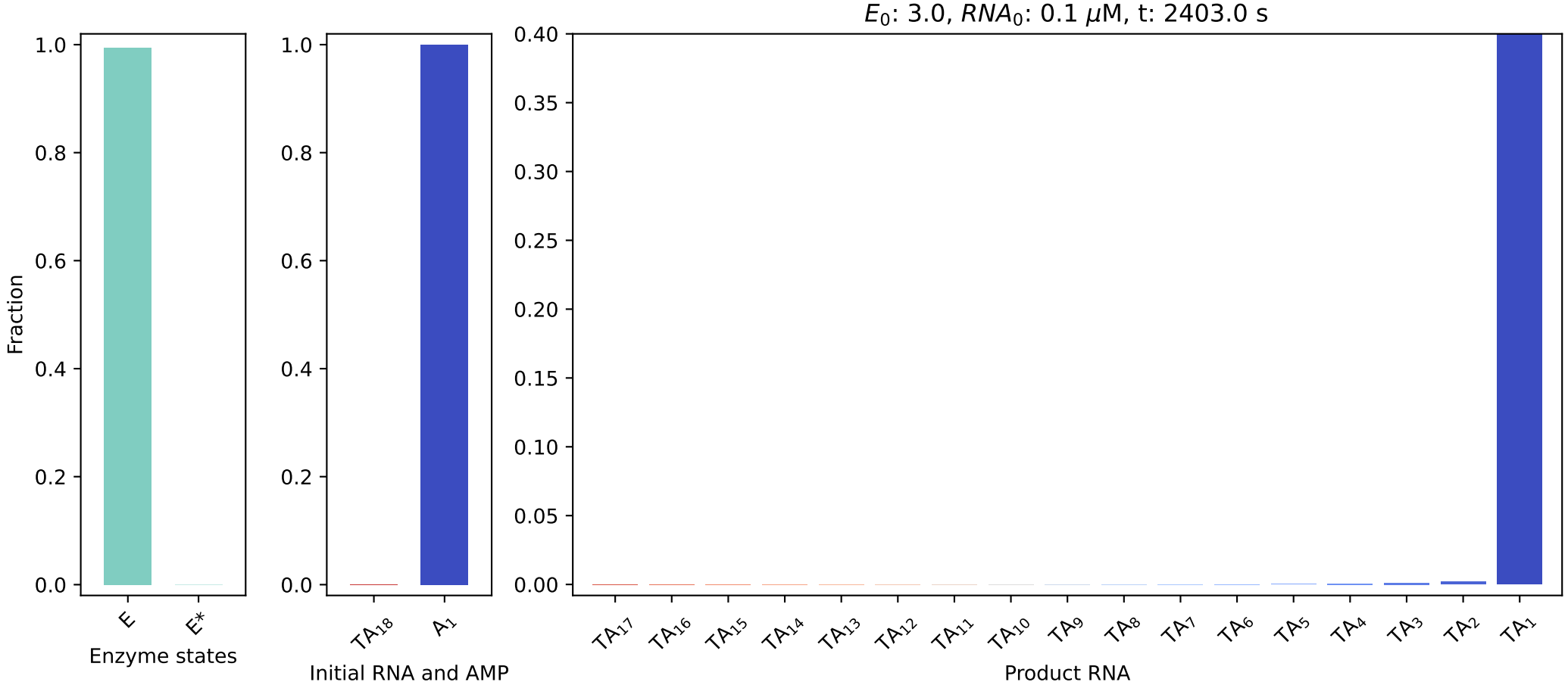
TA_7
TA_6
TA_5
TA_4
TA_3
TA_2
TA_1
Product RNA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E
E*
Enzyme states
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A_1
Initial RNA and AMP
0.40
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0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
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TA_7
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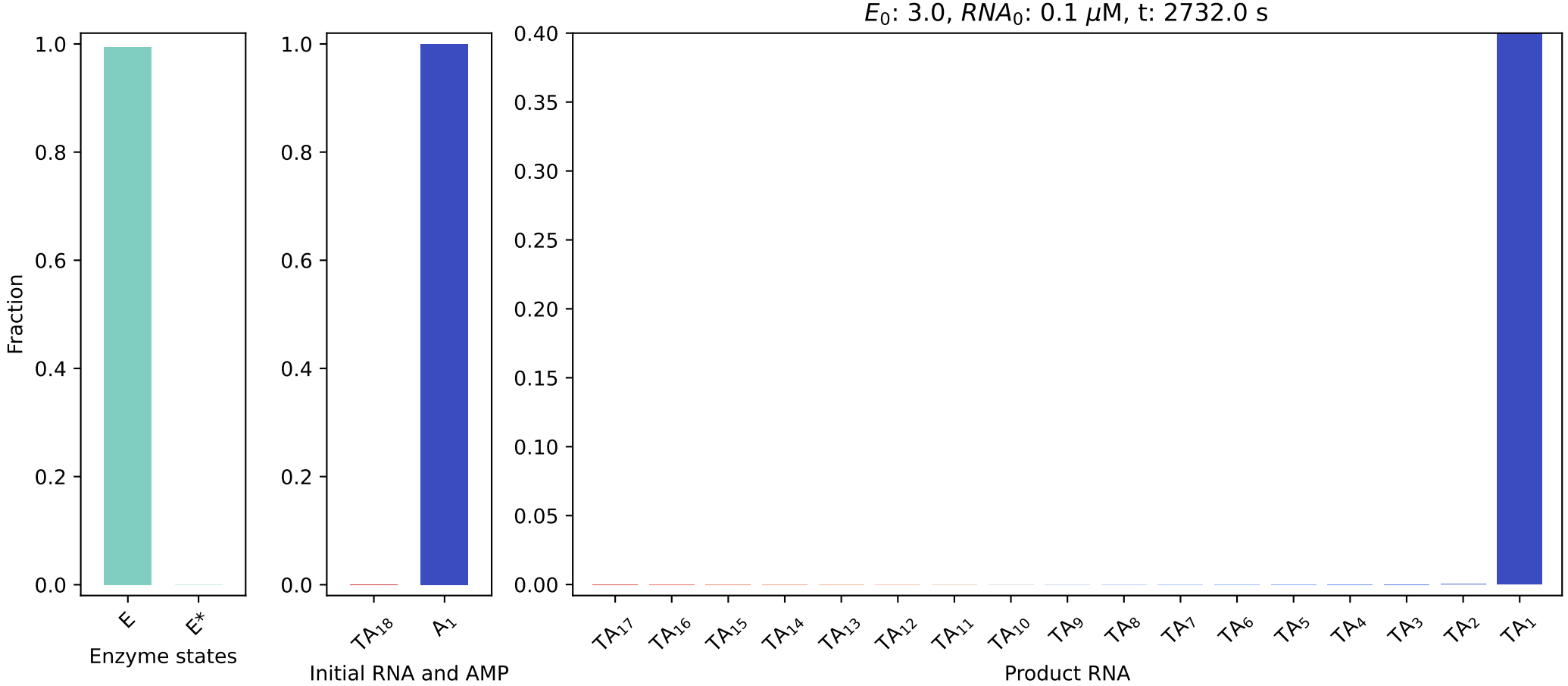
TA_5
TA_4
TA_3
TA_2
TA_1
Product RNA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E*
Enzyme states
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Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA17
TA16
TA15
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TA7
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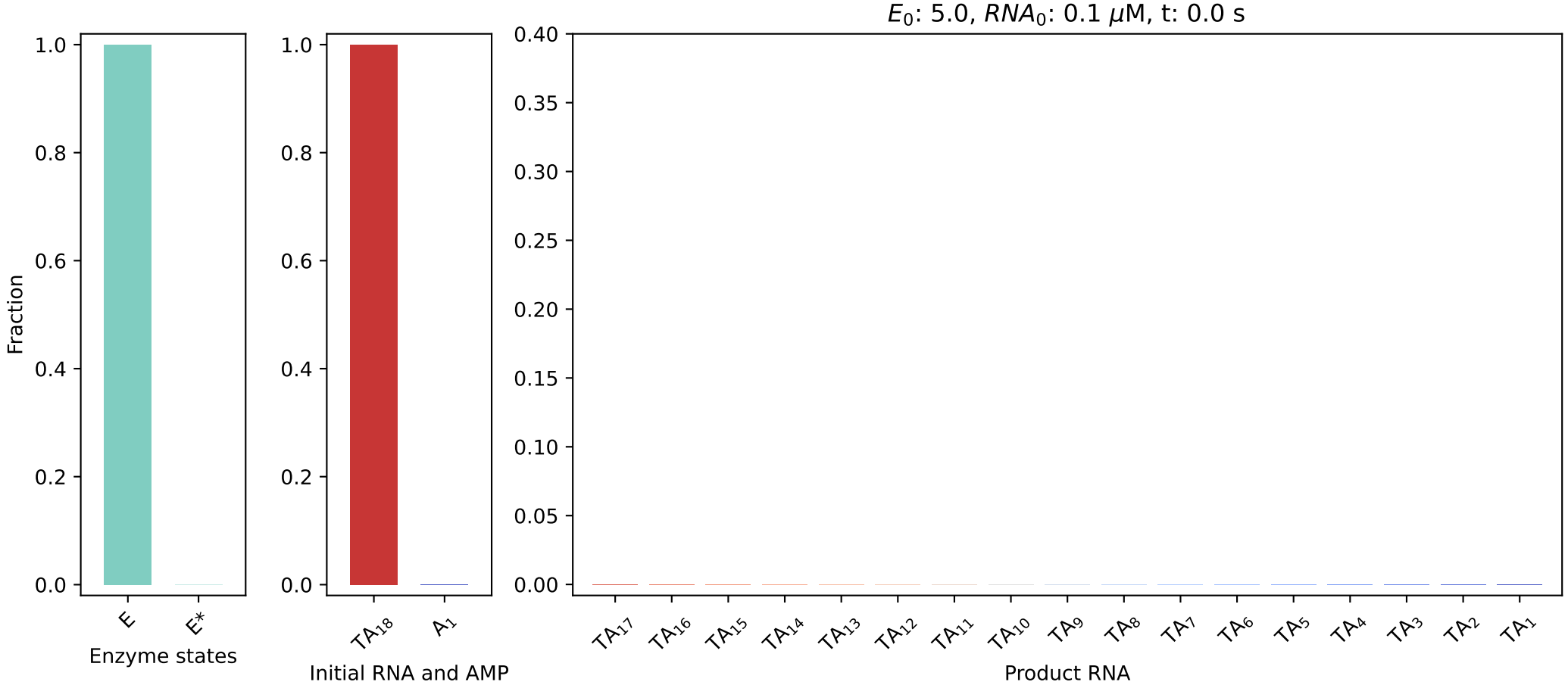
TA4
TA3
TA2
TA1
Product RNA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E
E*
Enzyme states
TA18
A1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
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TA17
TA16
TA15
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TA10
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TA7
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TA5
TA4
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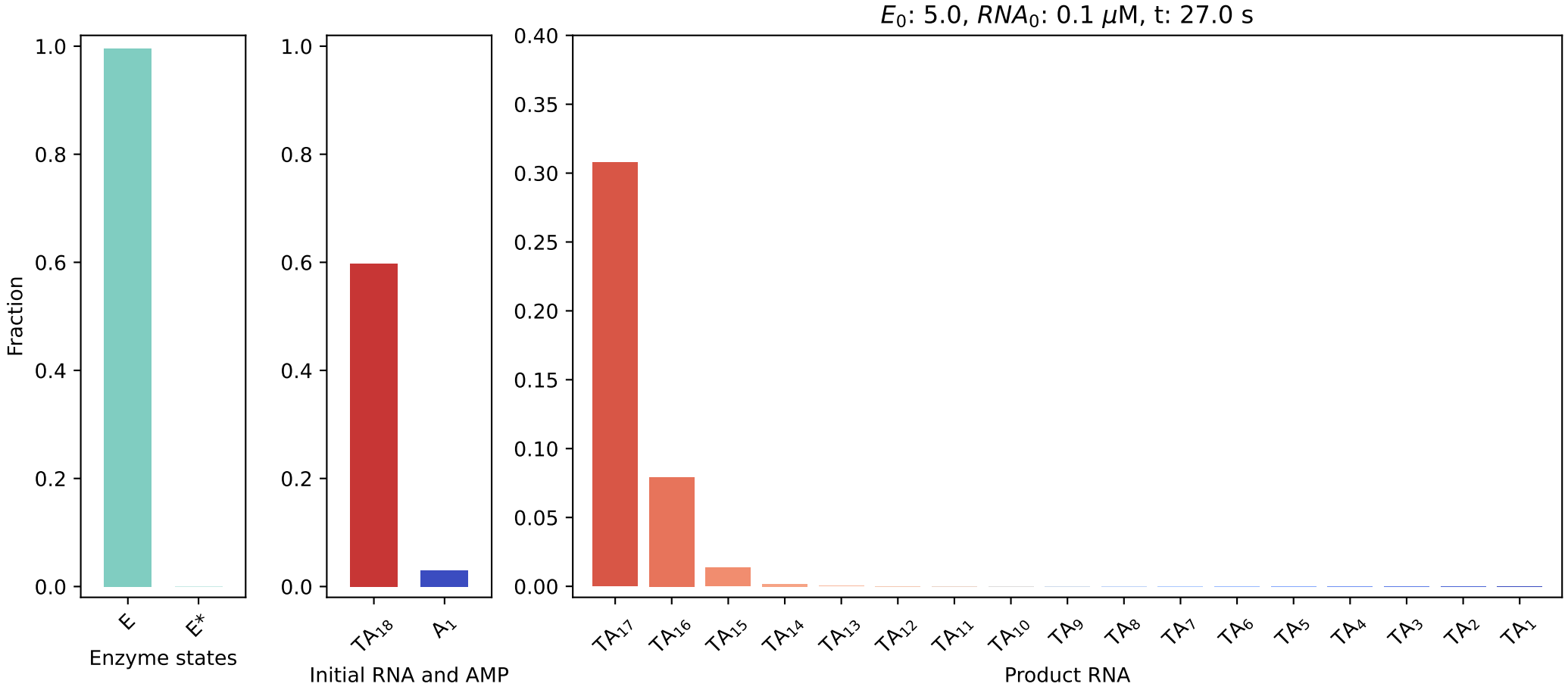
TA2
TA1
Product RNA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0.0
E
E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
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TA_{16}
TA_{15}
TA_{14}
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TA_8
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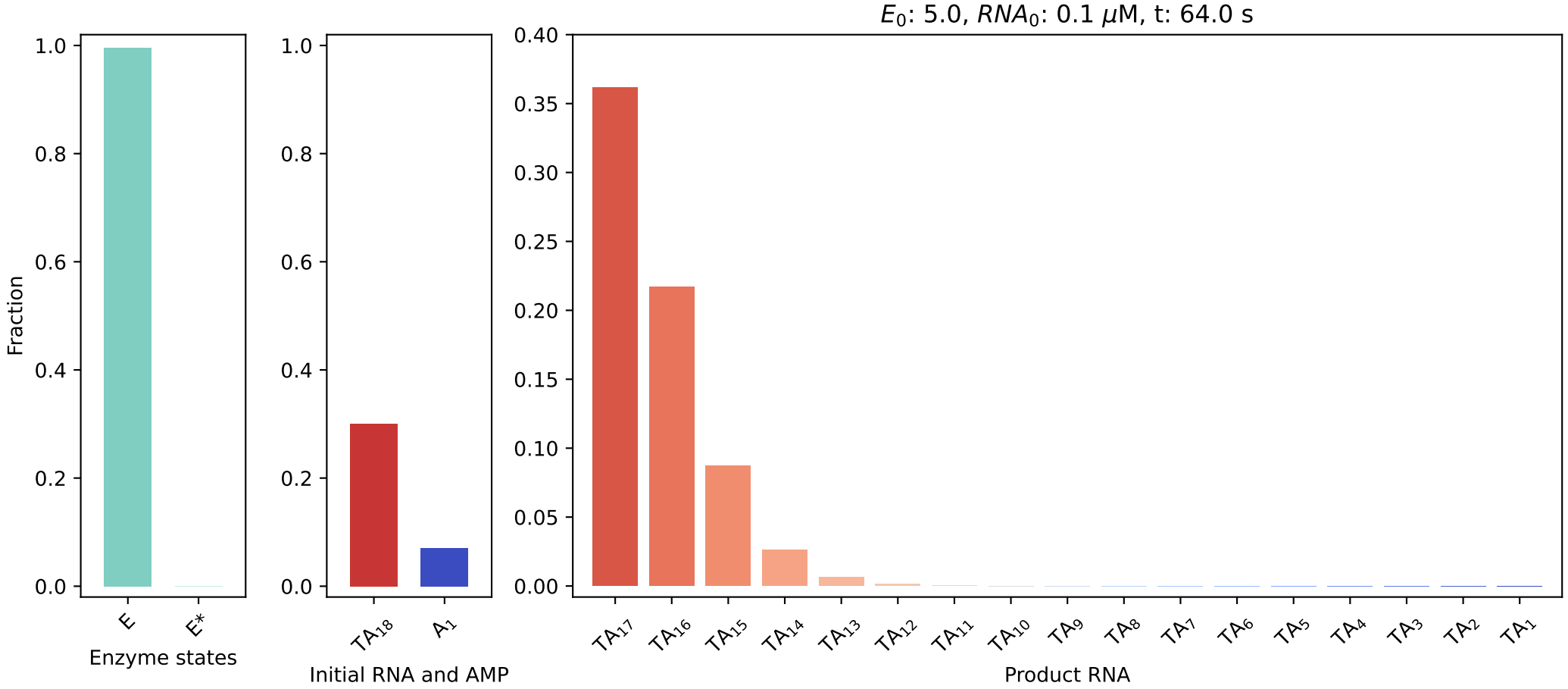
TA_1
Product RNA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E
E*
Enzyme states
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Initial RNA and AMP
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0.35
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TA17
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TA15
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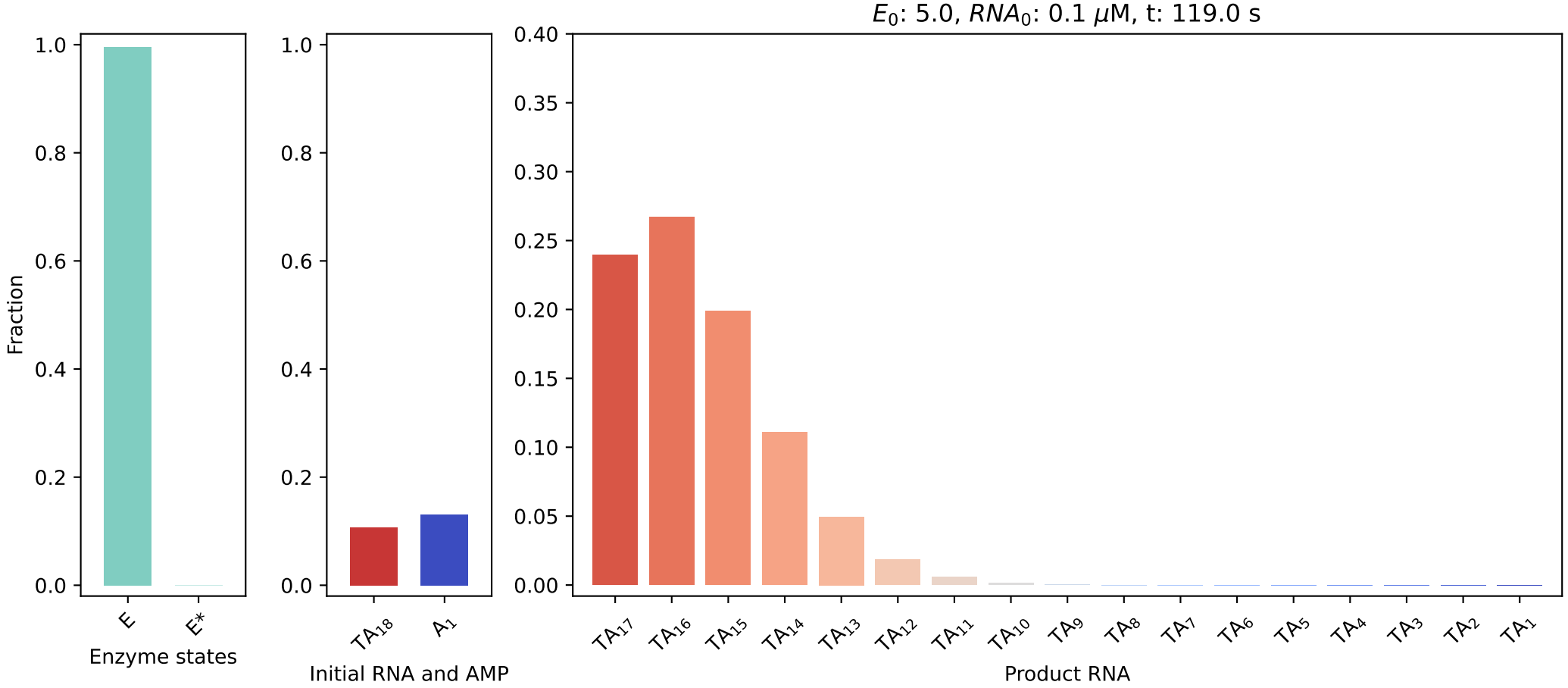
Product RNA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E*
Enzyme states
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Initial RNA and AMP
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0.30
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TA17
TA16
TA15
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TA2
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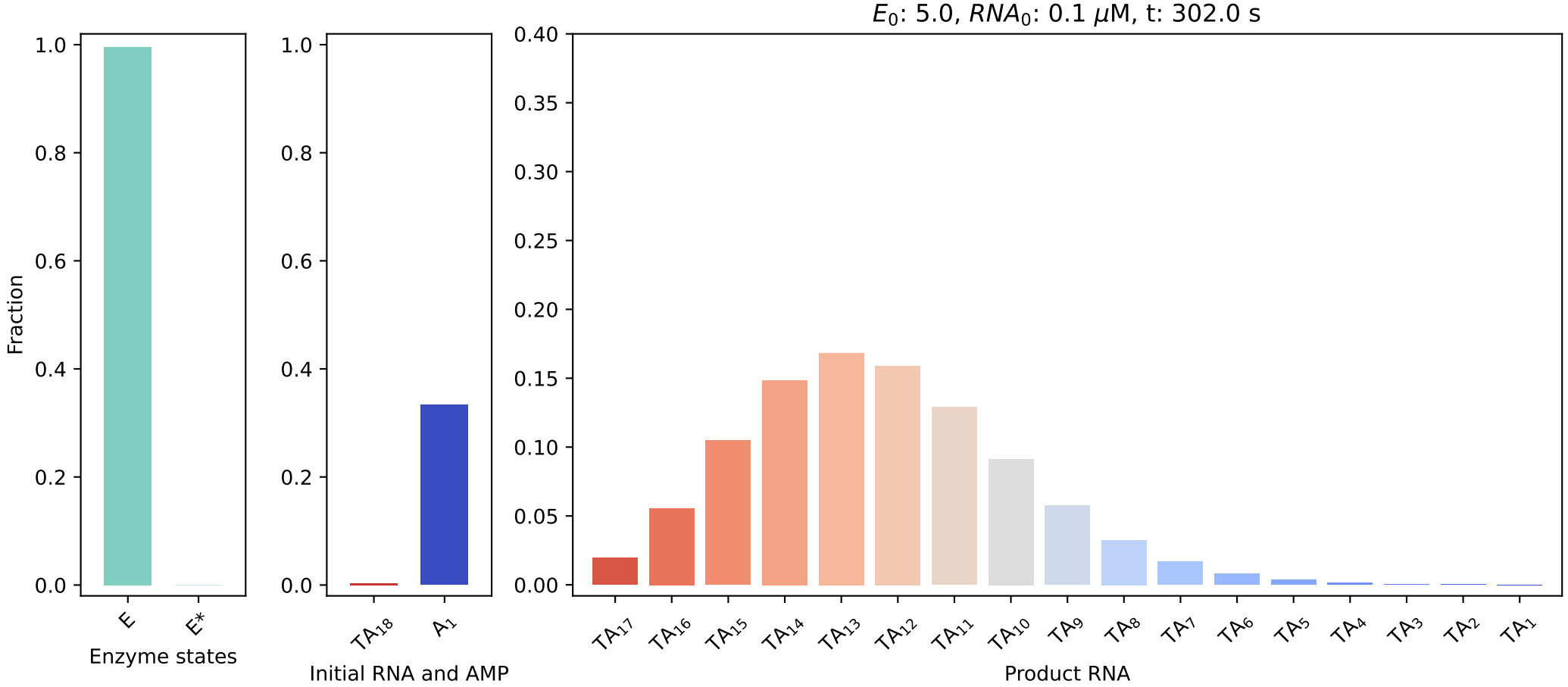
Product RNA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Enzyme states
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Initial RNA and AMP
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TA17
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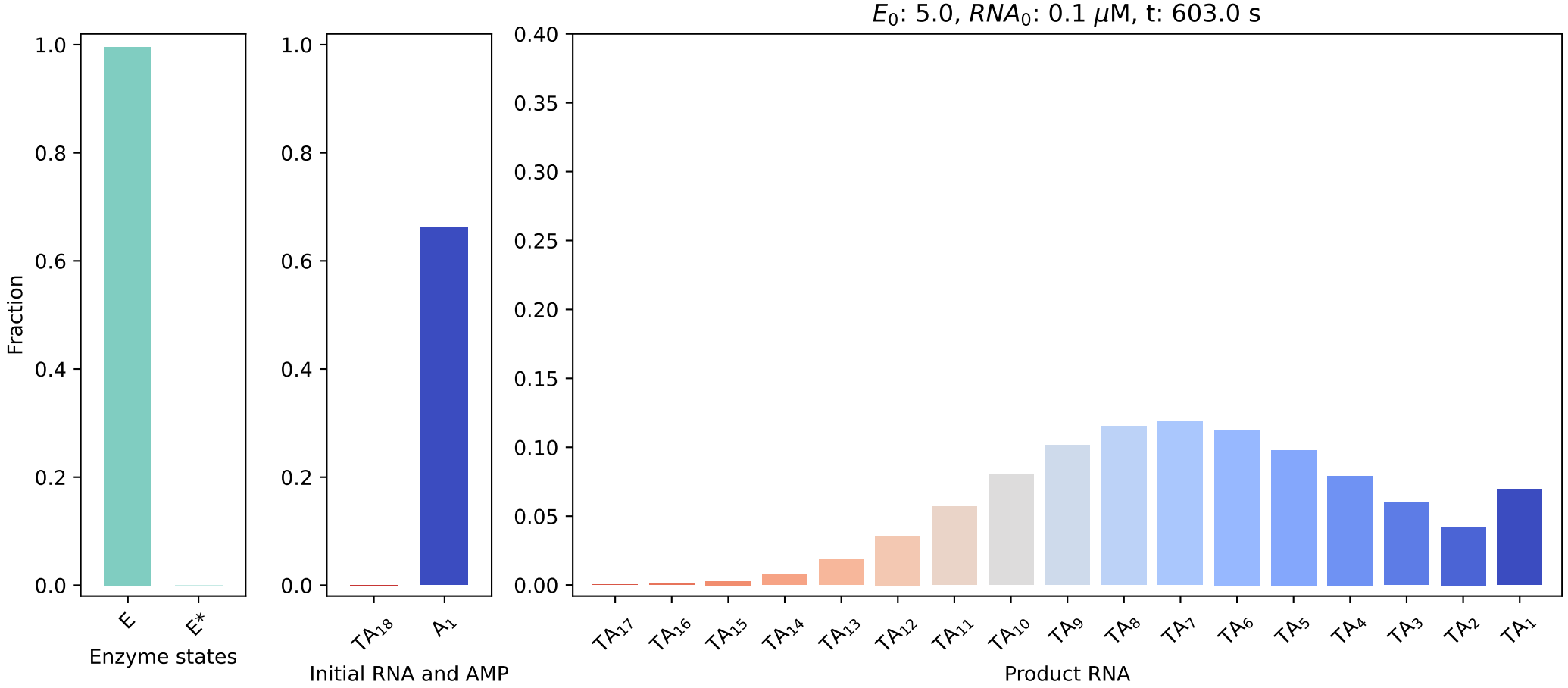
Product RNA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E
E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
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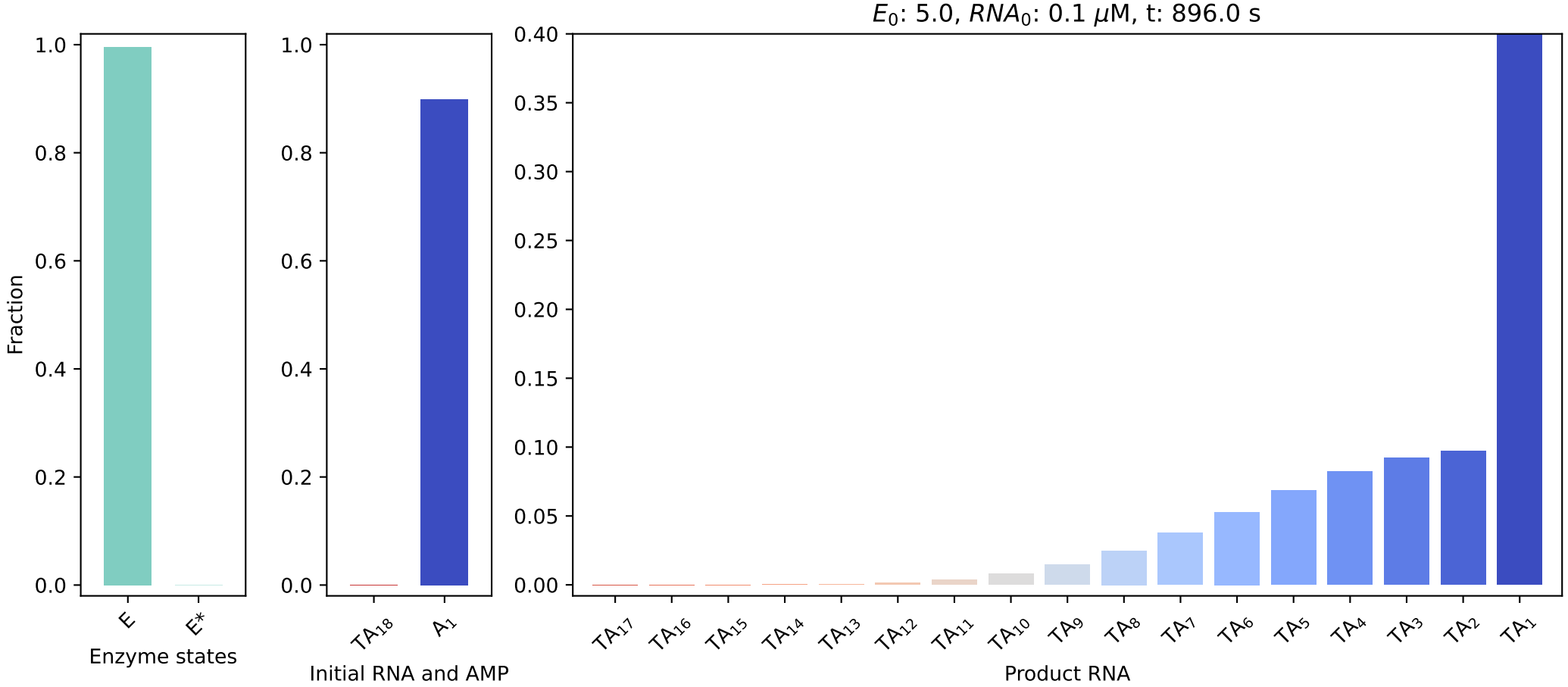
Product RNA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Enzyme states
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Initial RNA and AMP
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TA16
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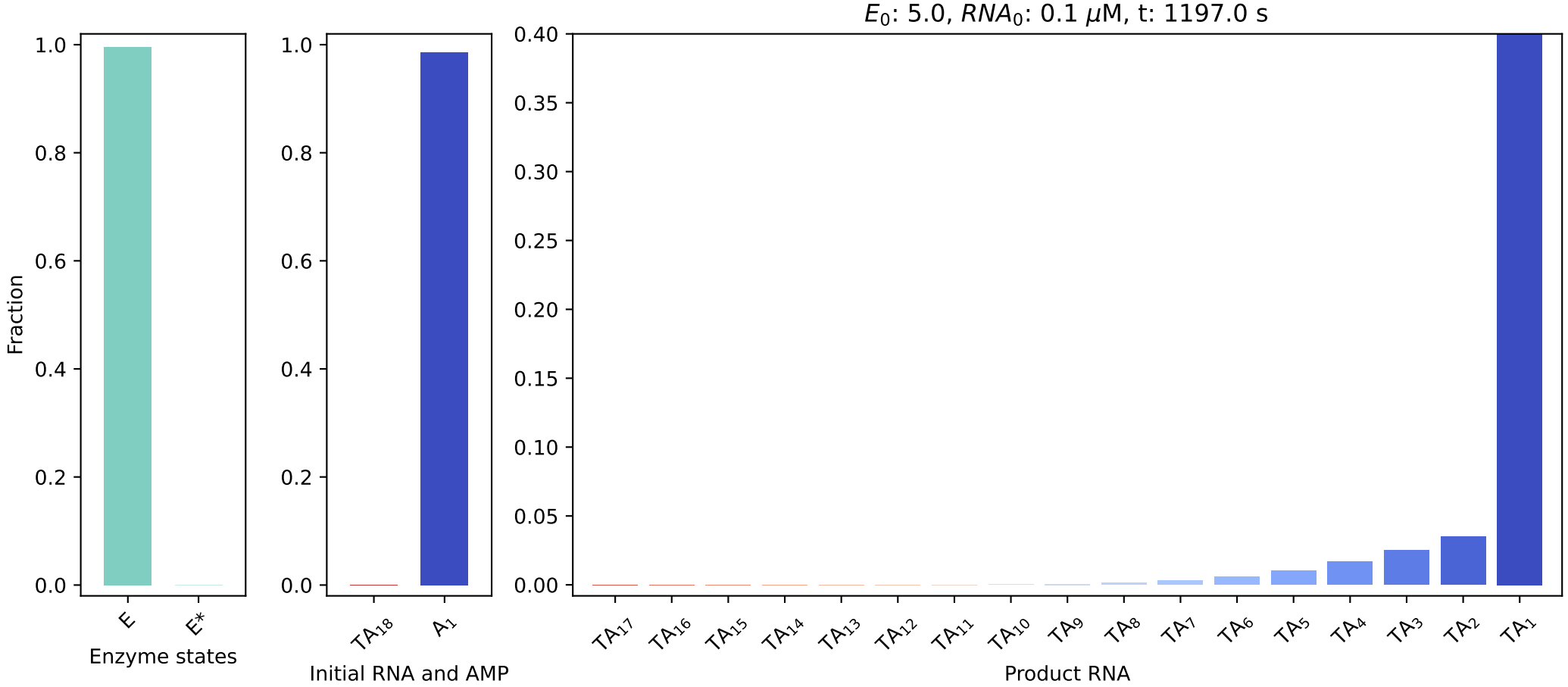
Product RNA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E*
Enzyme states
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A_1
Initial RNA and AMP
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0.30
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TA_{16}
TA_{15}
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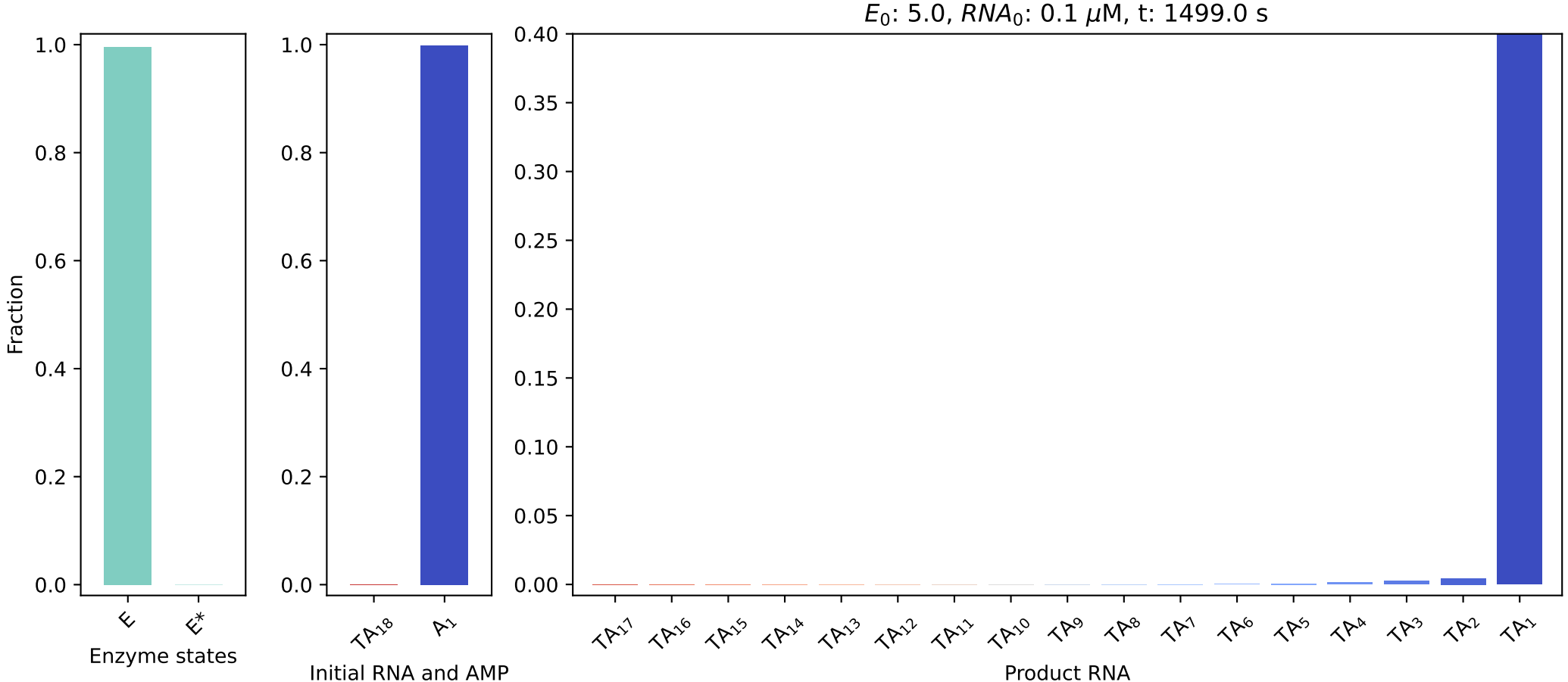
Product RNA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Enzyme states
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Initial RNA and AMP
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0.30
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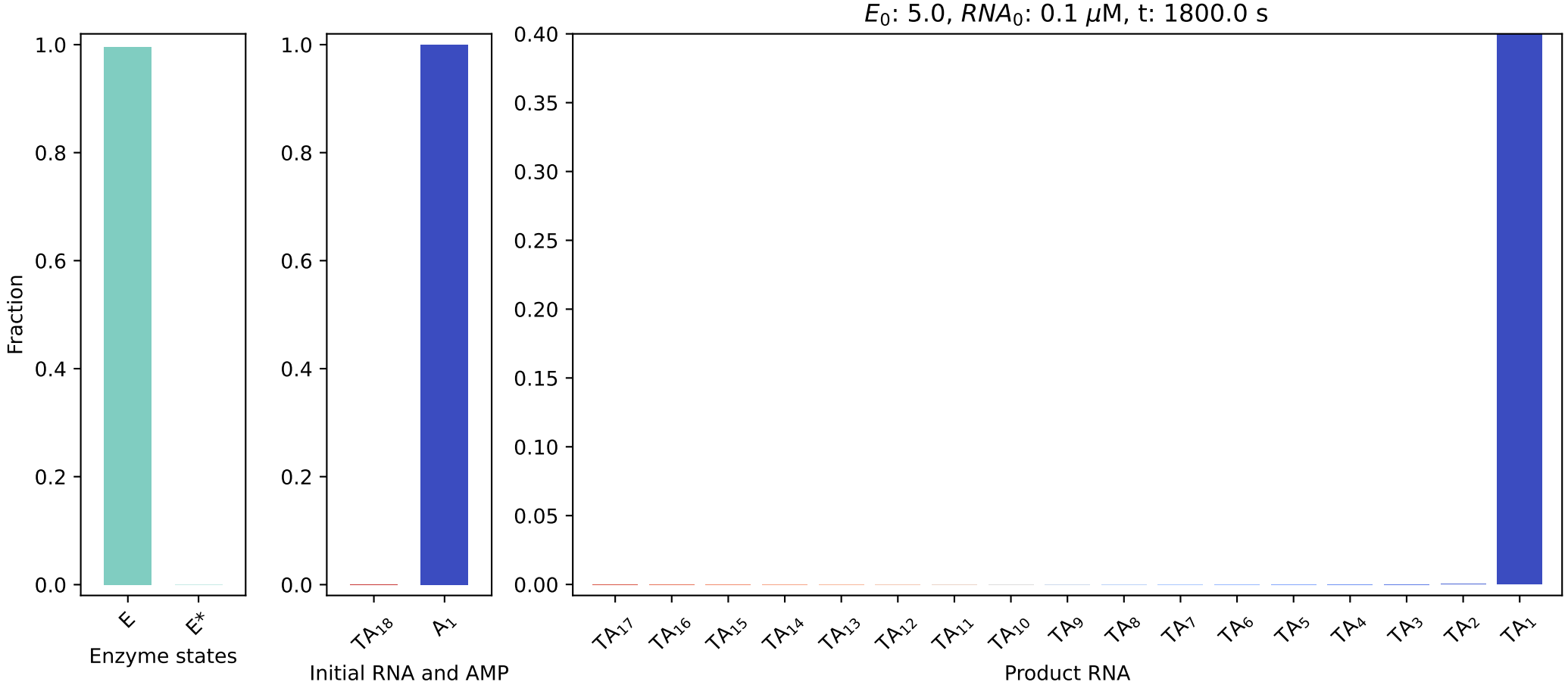
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E*
Enzyme states
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Initial RNA and AMP
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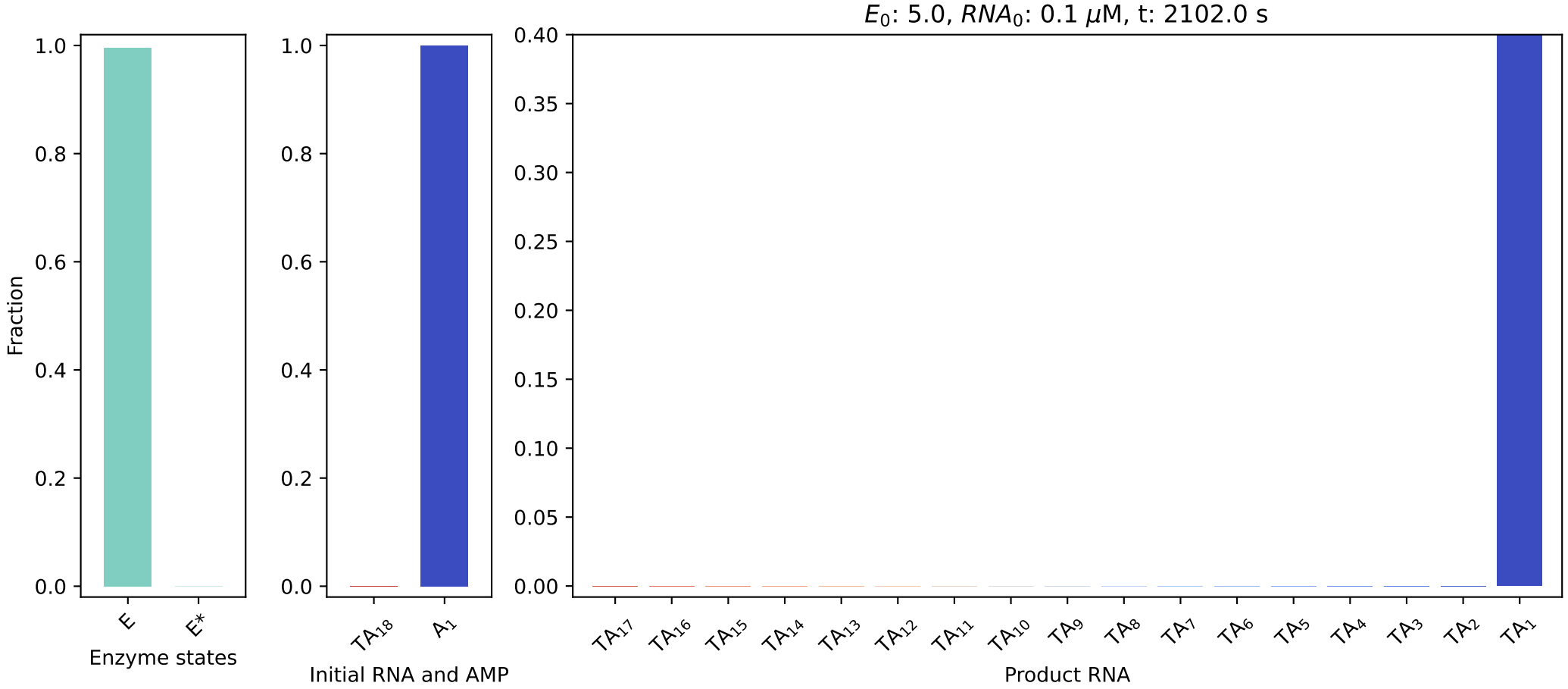
Product RNA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E
E*
Enzyme states
TA18
A1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA17
TA16
TA15
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TA5
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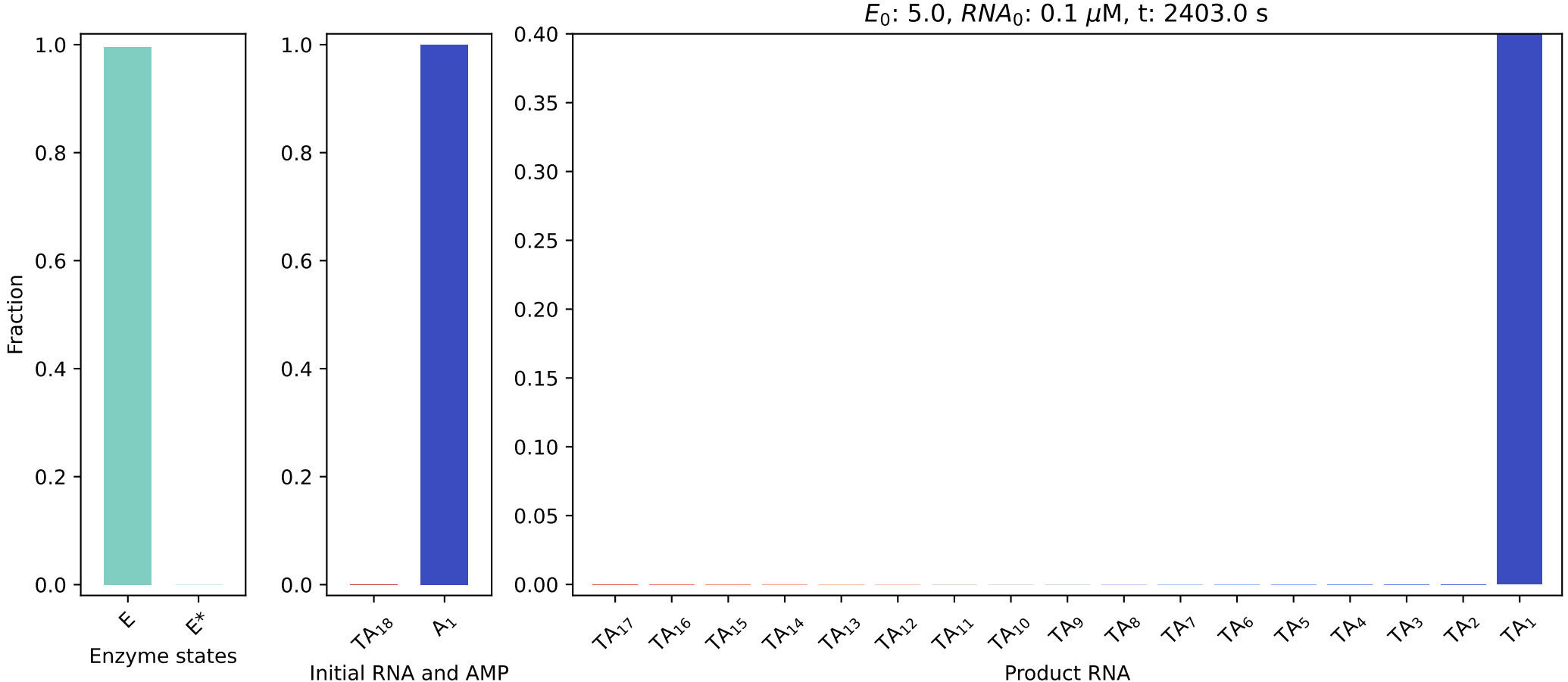
Product RNA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0.4
0.2
0.0
E
E*
Enzyme states
TA18
A1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA17
TA16
TA15
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TA11
TA10
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TA8
TA7
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TA5
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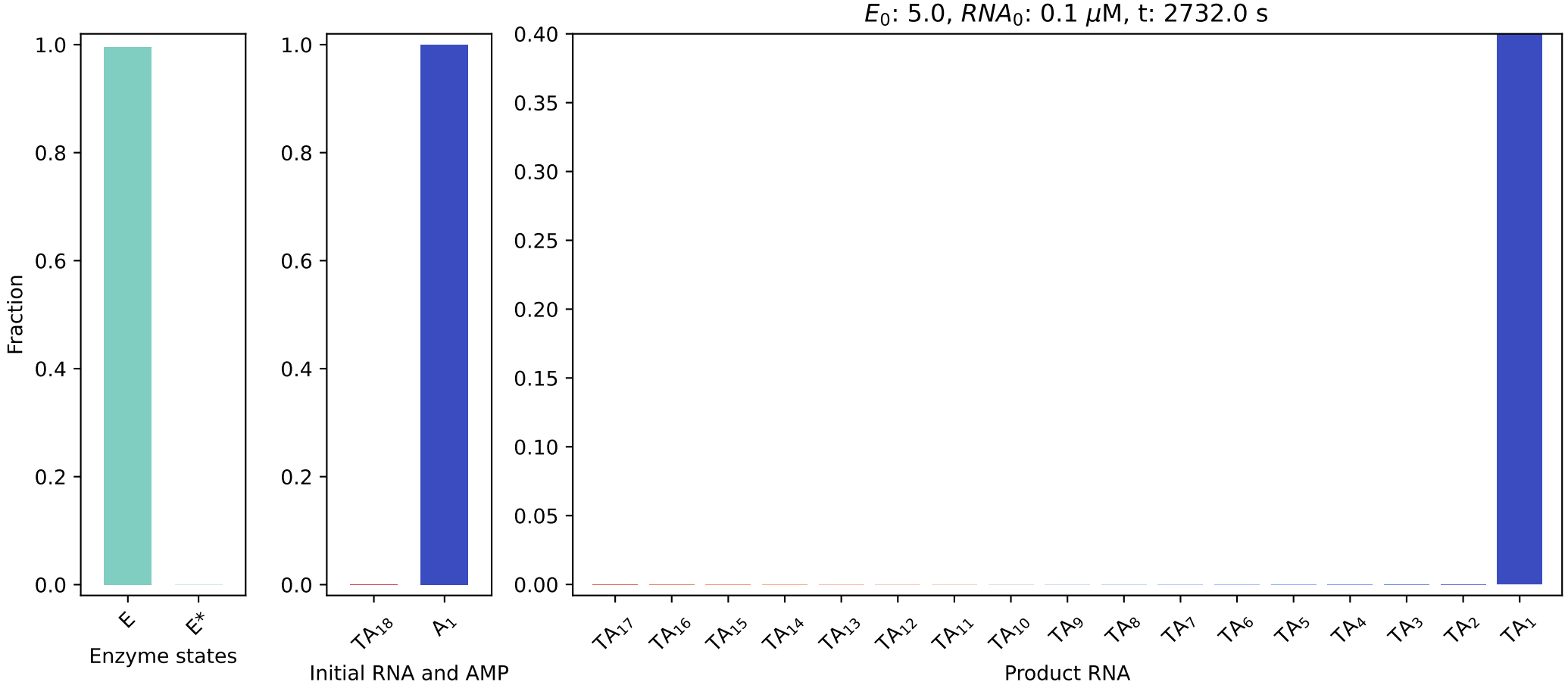
TA2
TA1
Product RNA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Fraction
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0.8
0.6
0.4
0.2
0.0
E
E*
Enzyme states
TA18
A1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA17
TA16
TA15
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TA11
TA10
TA9
TA8
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TA5
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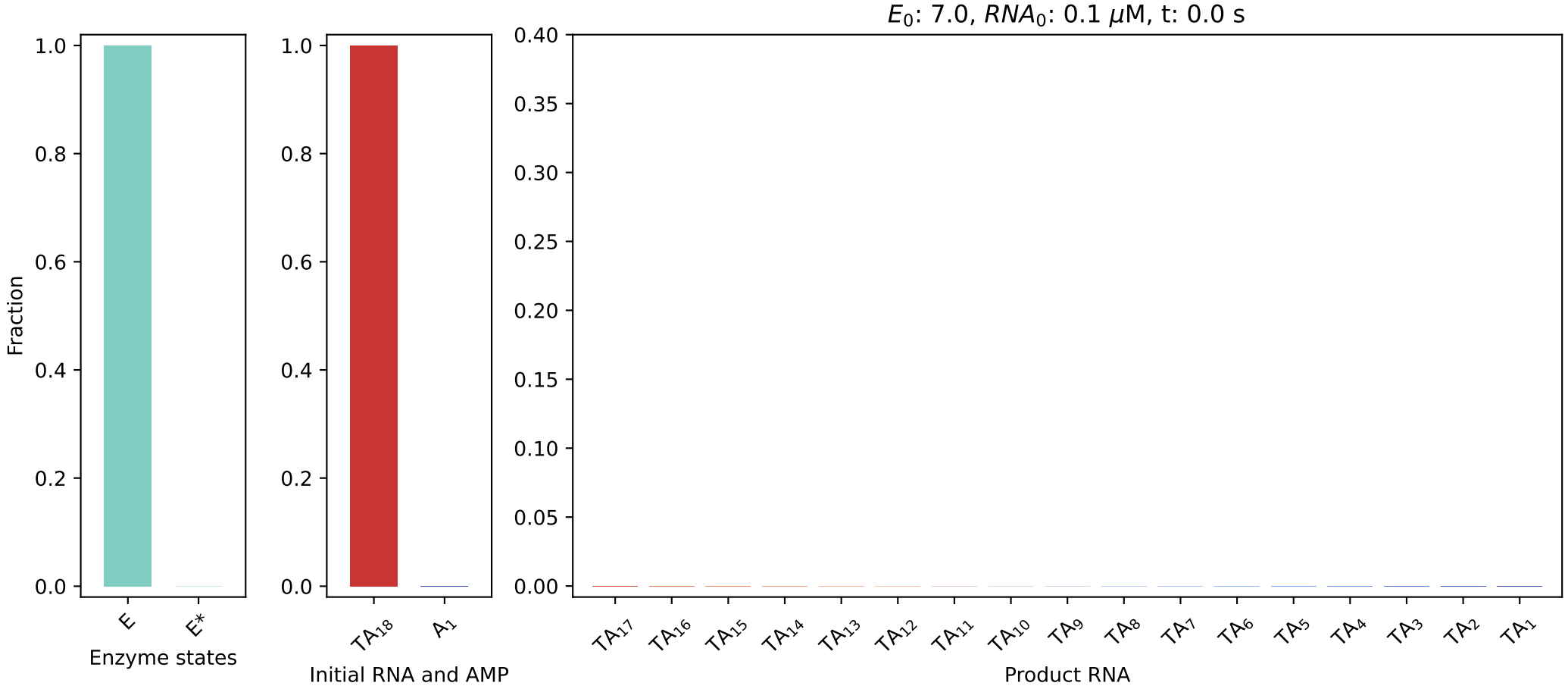
TA1
Product RNA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E
E*
Enzyme states
TA18
A1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
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TA17
TA16
TA15
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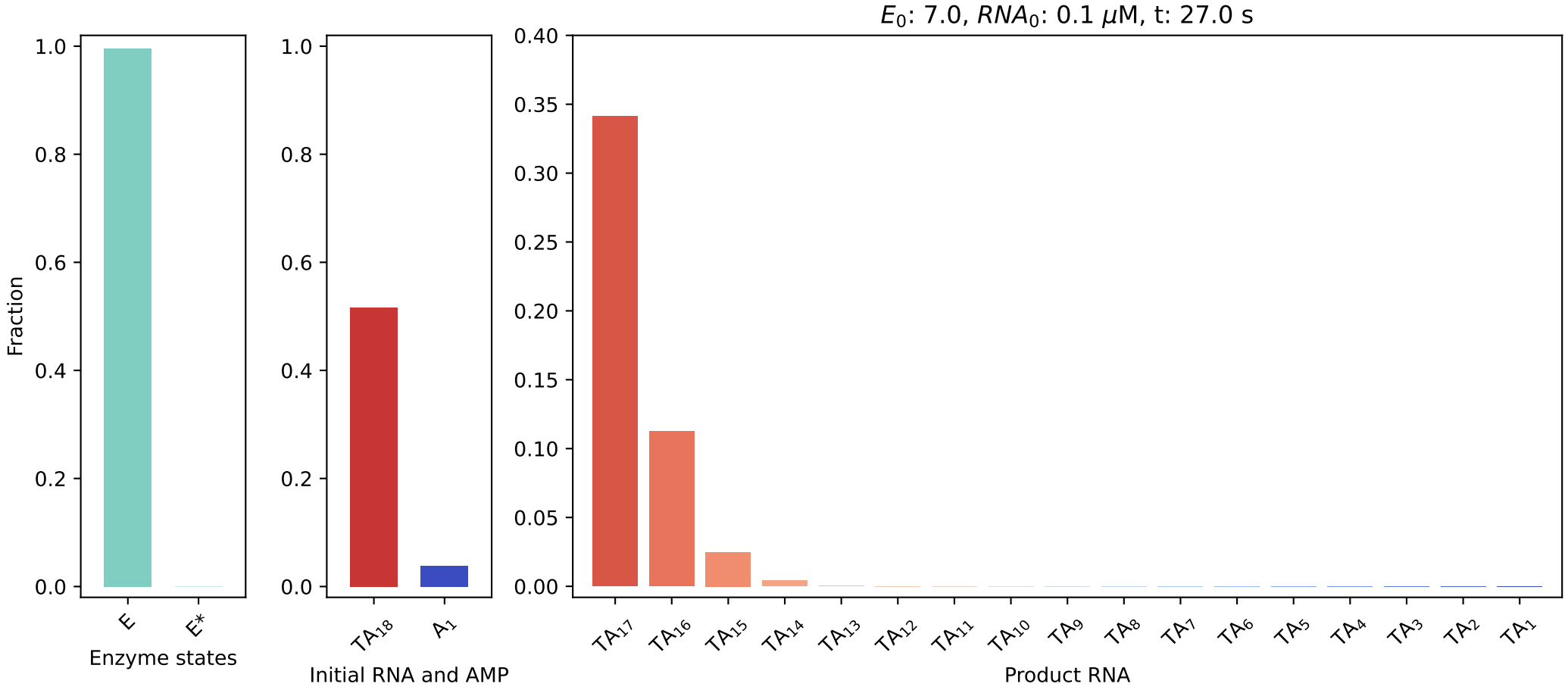
TA3
TA2
TA1
Product RNA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E
E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
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0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
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TA_4
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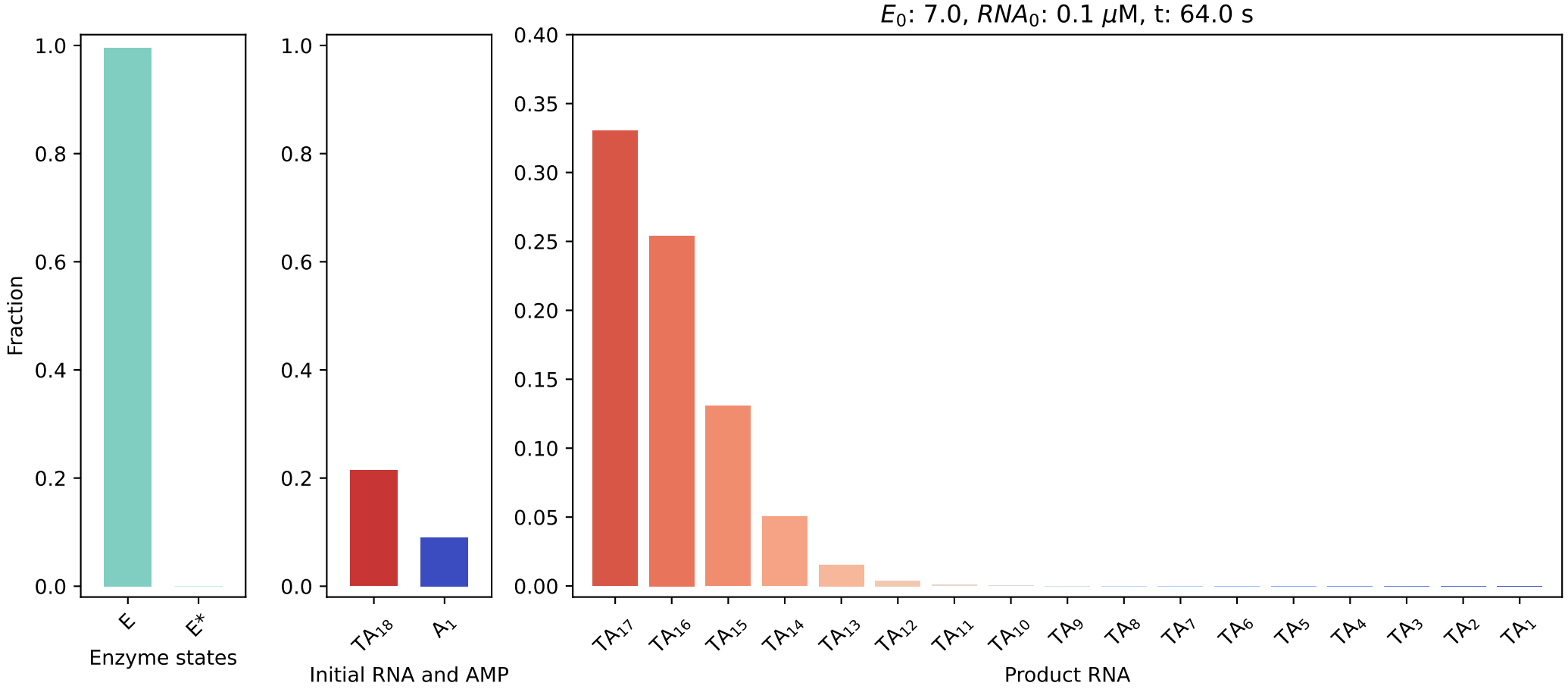
TA_2
TA_1
Product RNA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E*
Enzyme states
TA18
A1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
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TA17
TA16
TA15
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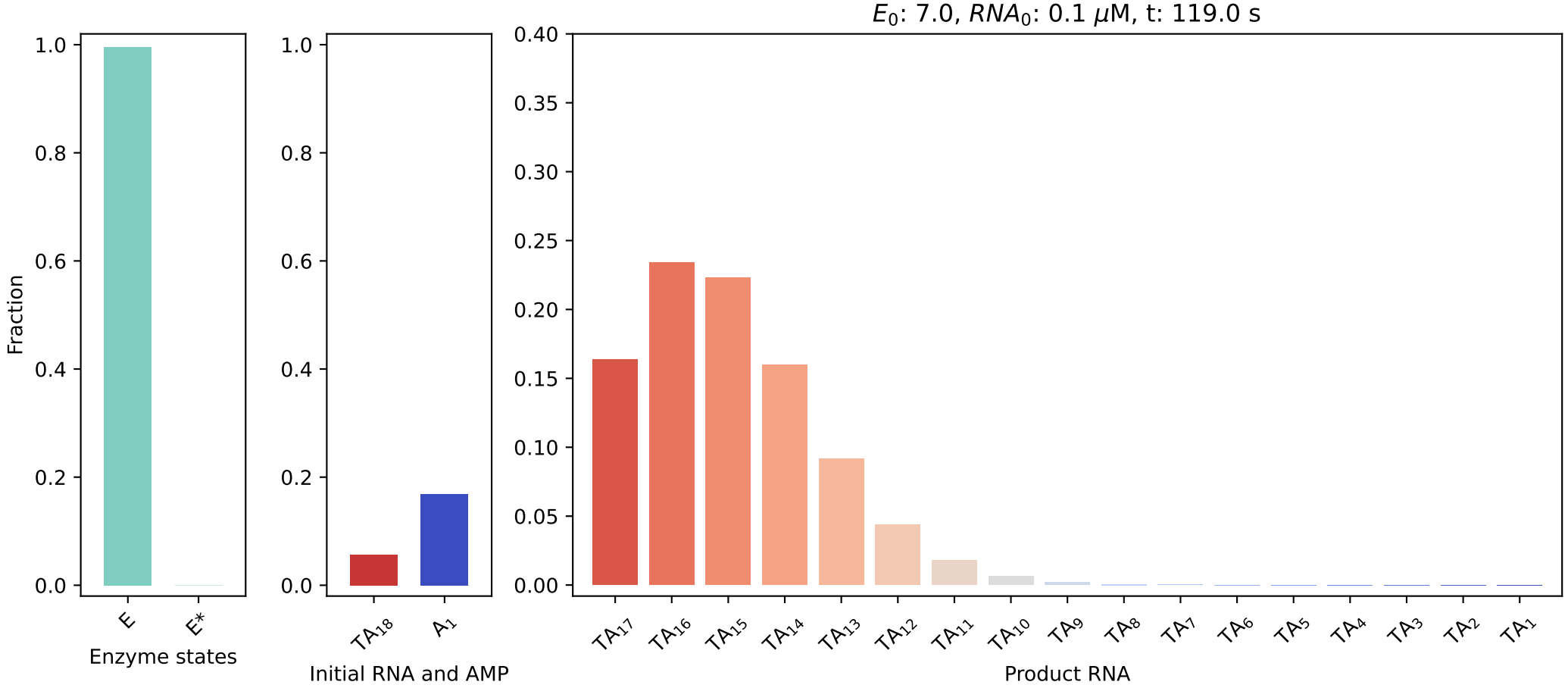
Product RNA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Enzyme states
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A1
Initial RNA and AMP
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0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA17
TA16
TA15
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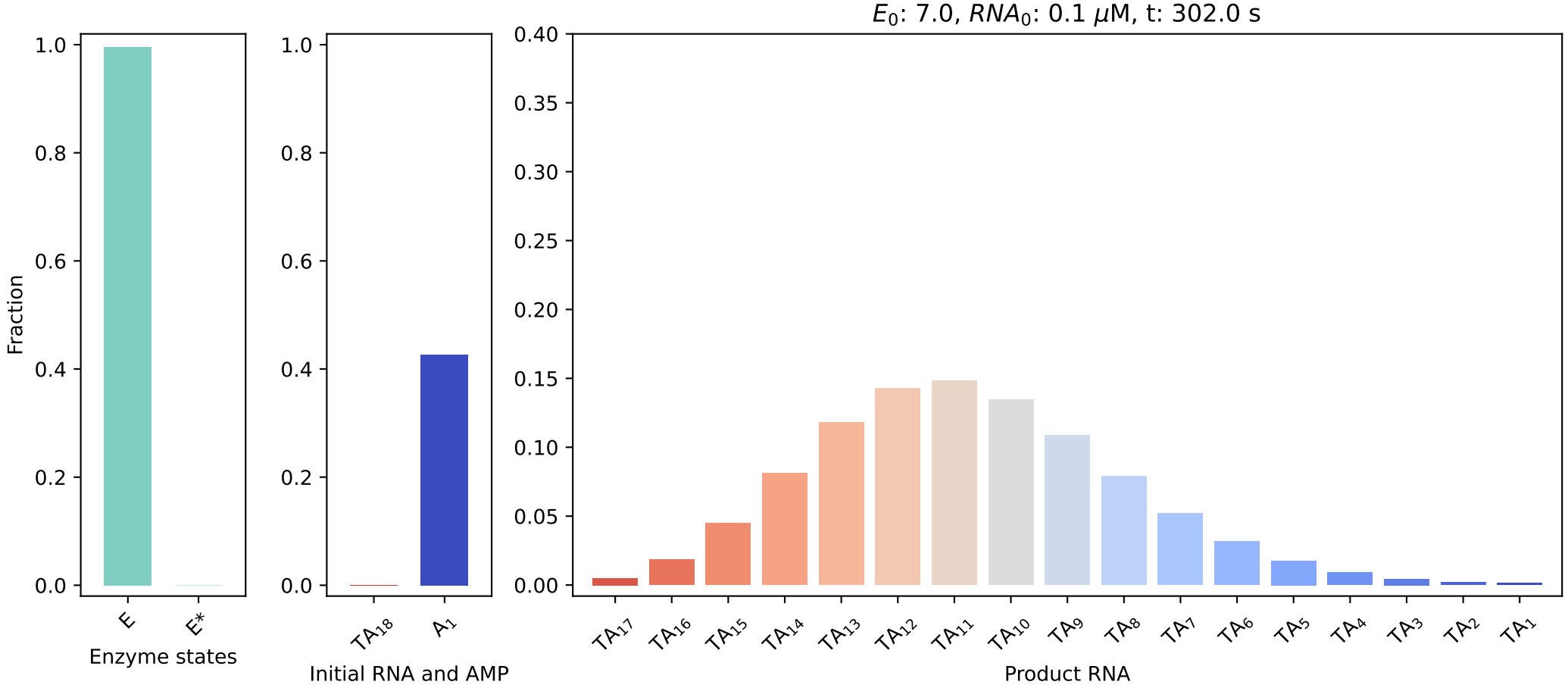
TA2
TA1
Product RNA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Enzyme states
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0.4
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0.0
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
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TA_{17}
TA_{16}
TA_{15}
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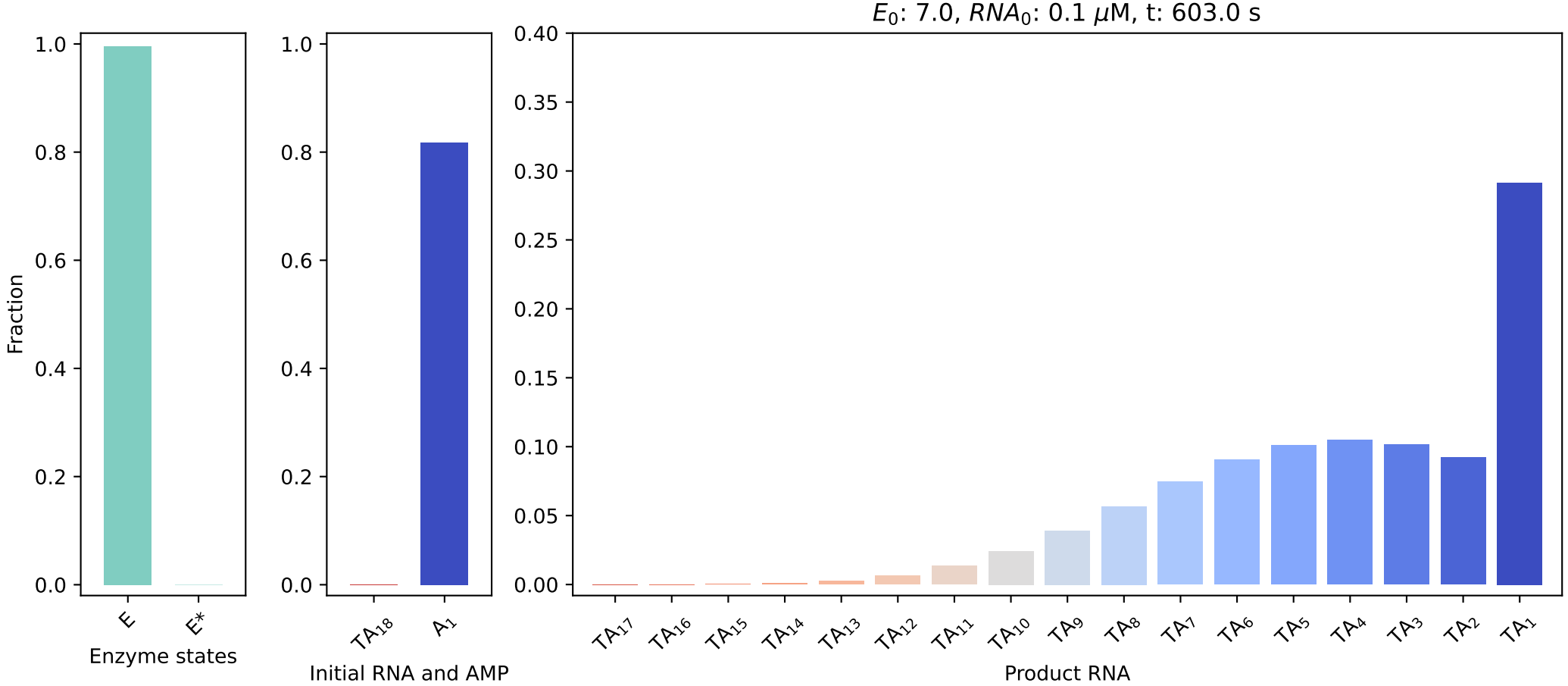
Product RNA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E
E*
Enzyme states
TA18
A1
Initial RNA and AMP
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0.30
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0.20
0.15
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TA17
TA16
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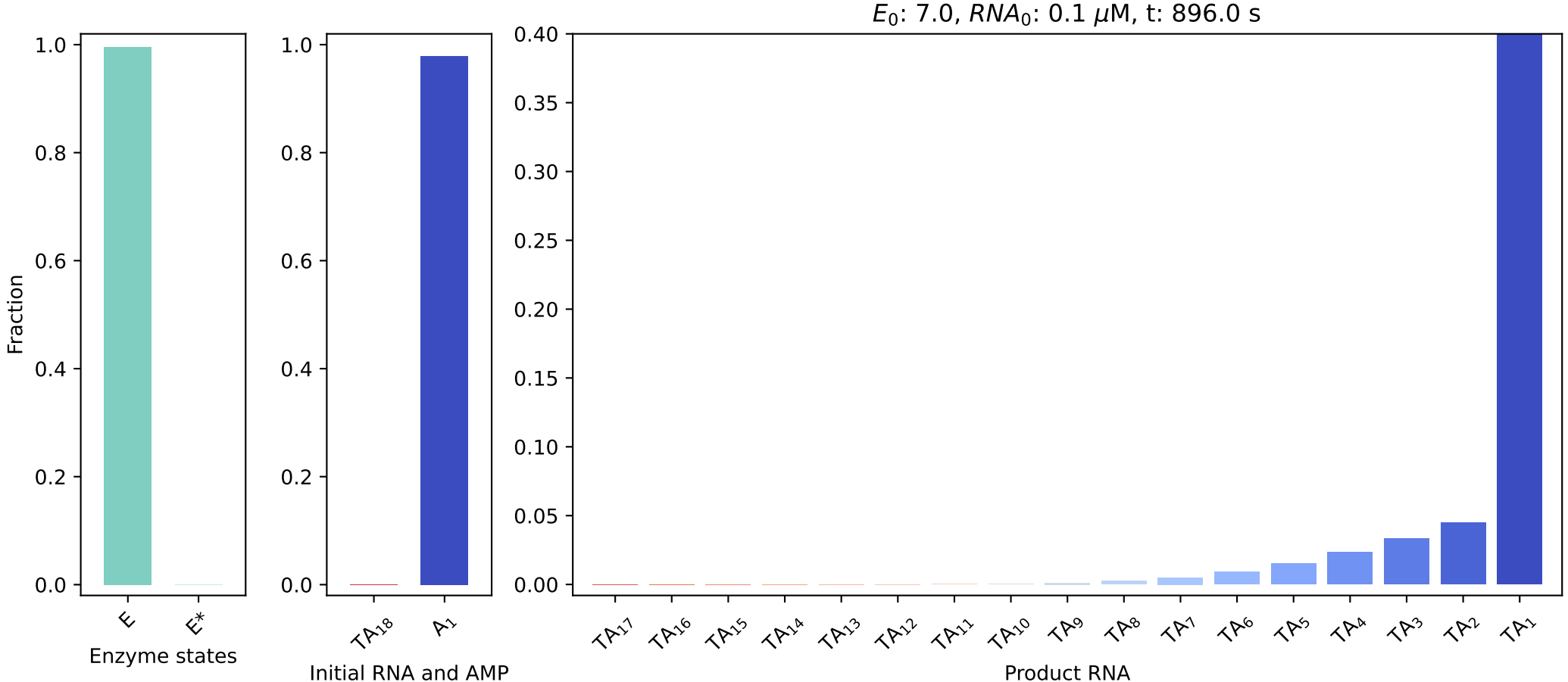
Product RNA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E
E*
Enzyme states
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A_1
Initial RNA and AMP
0.40
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0.30
0.25
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0.15
0.10
0.05
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TA_{17}
TA_{16}
TA_{15}
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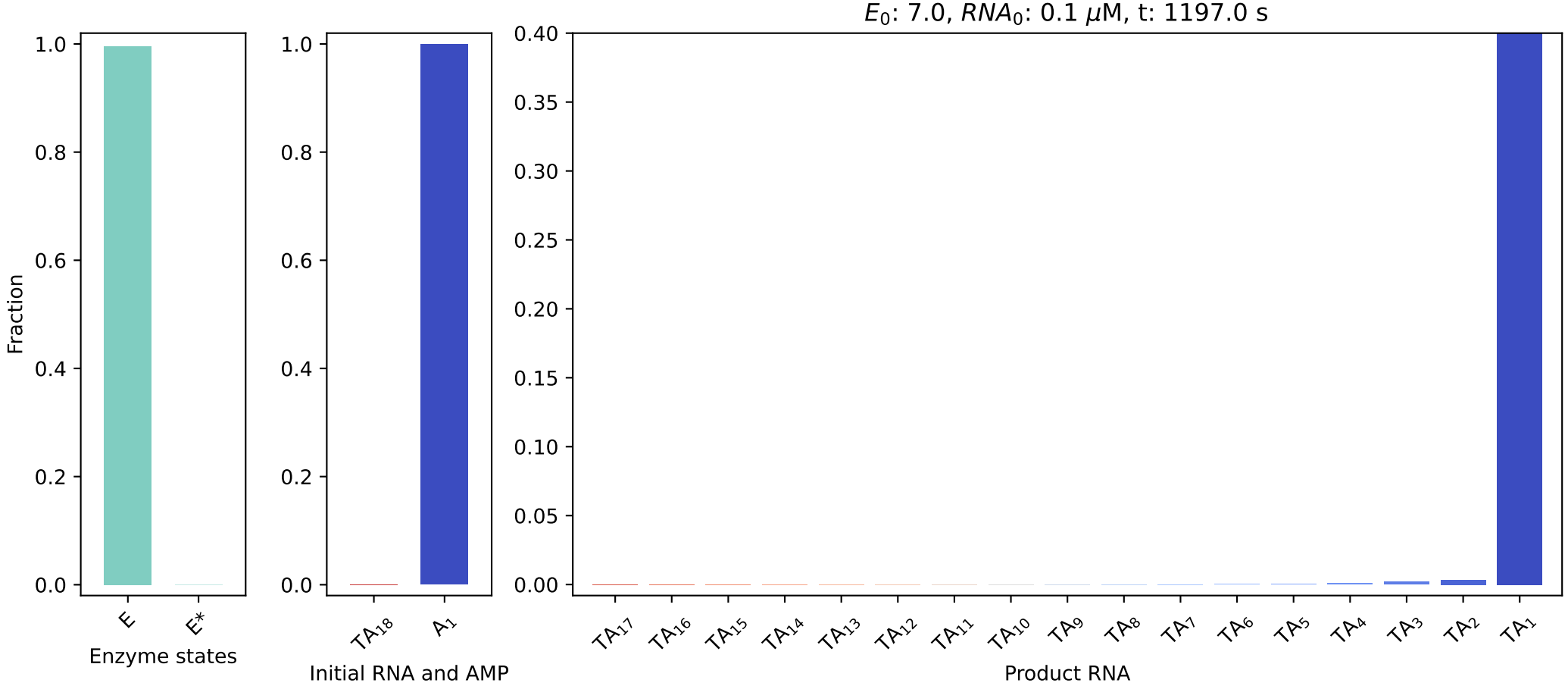
TA_1
Product RNA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E*
Enzyme states
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0.4
0.2
0.0
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
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TA_{17}
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TA_4
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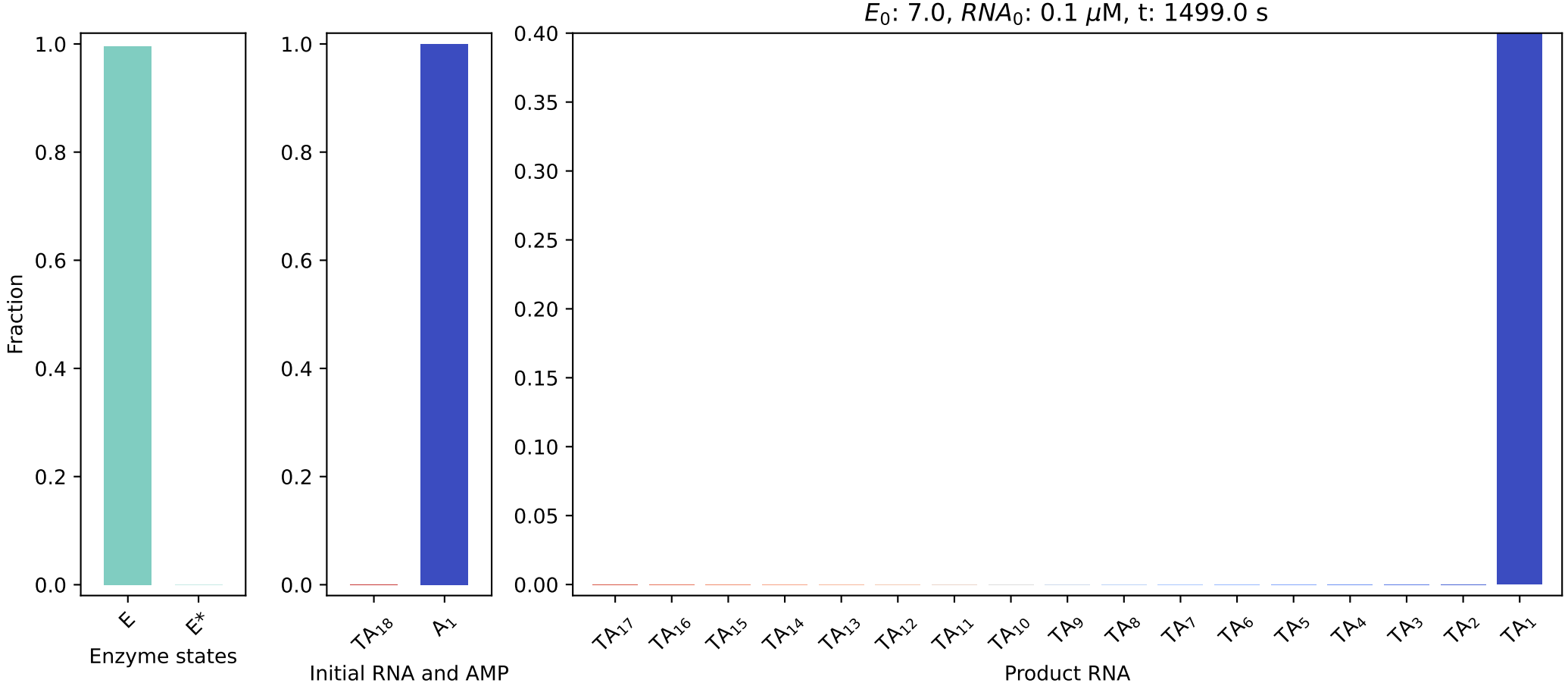
TA_2
TA_1
Product RNA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E
E*
Enzyme states
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A_1
Initial RNA and AMP
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0.35
0.30
0.25
0.20
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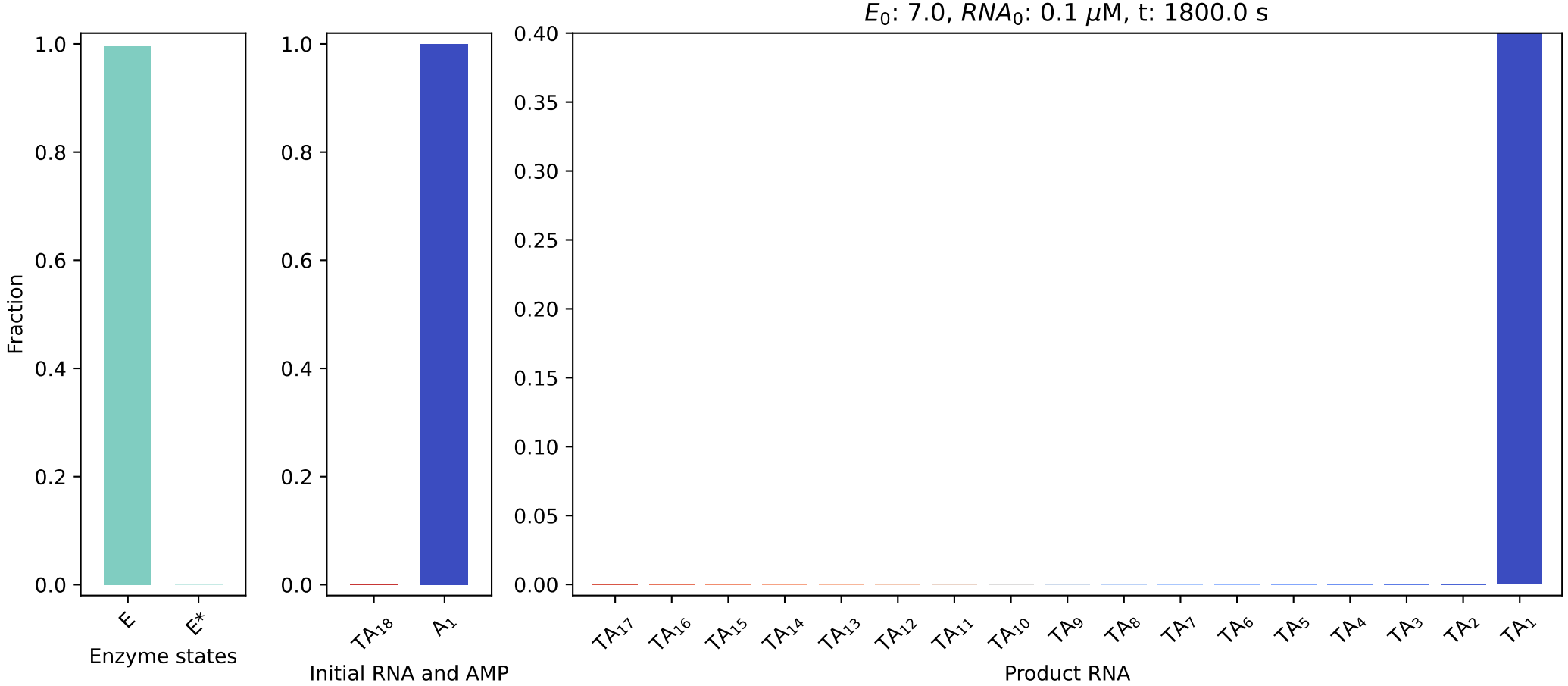
TA_1
Product RNA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E*
Enzyme states
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TA_{18}
A_1
Initial RNA and AMP
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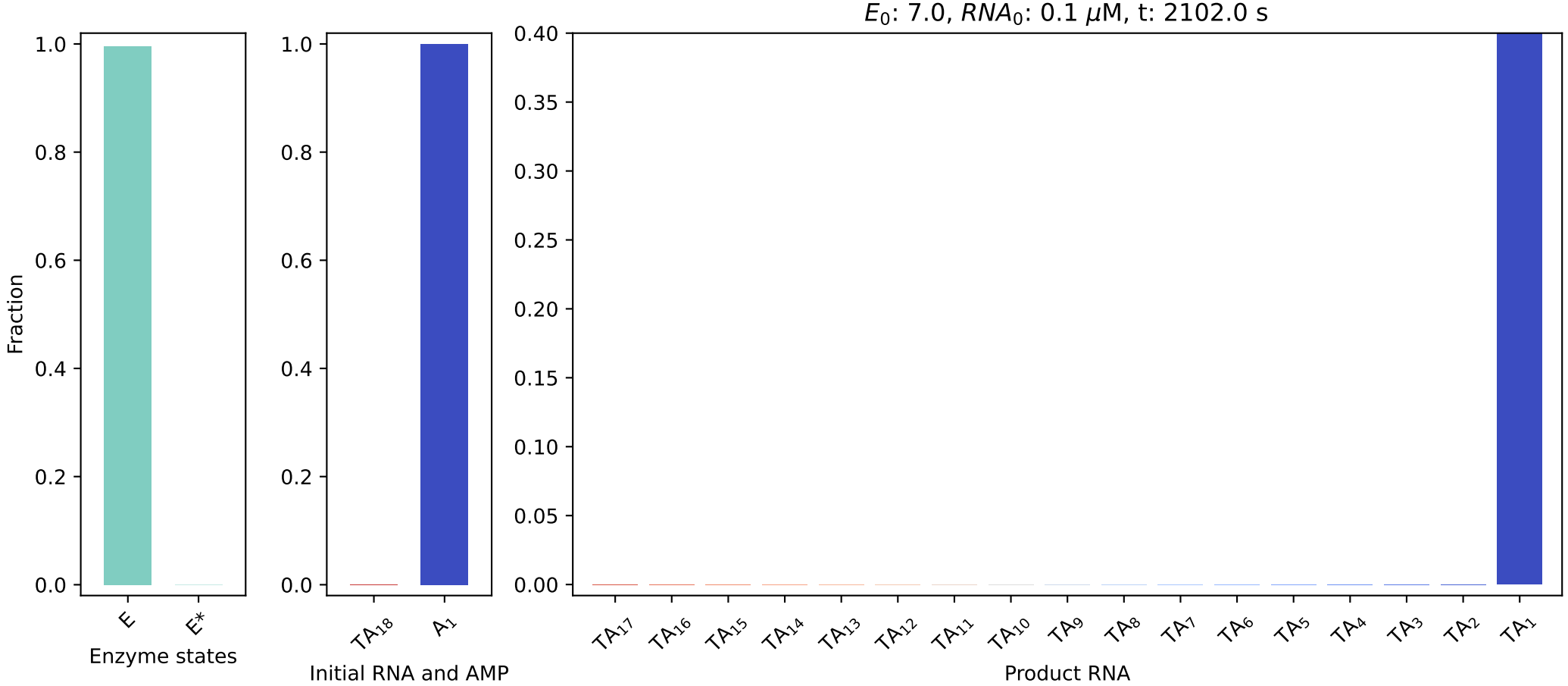
Product RNA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E
E*
Enzyme states
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TA_2
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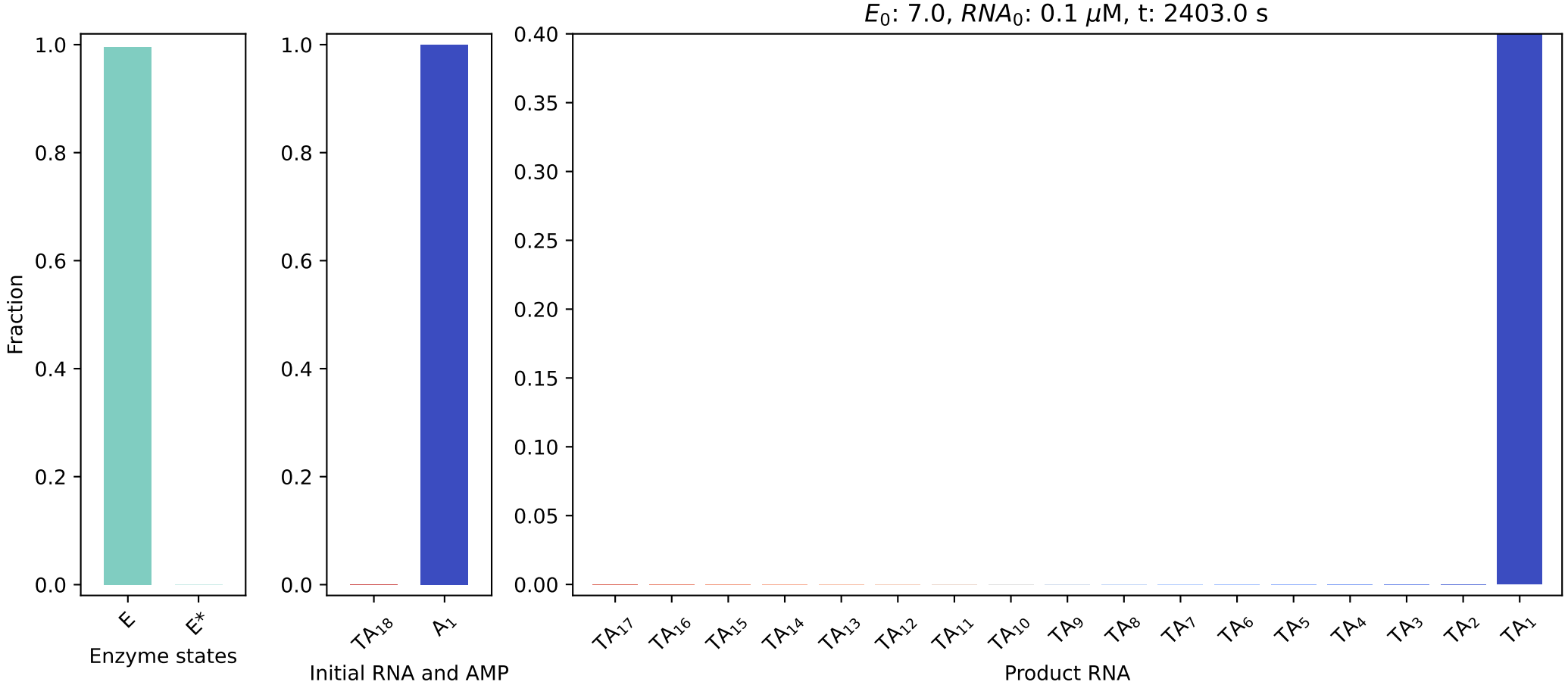
Product RNA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E*
Enzyme states
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TA_{18}
A_1
Initial RNA and AMP
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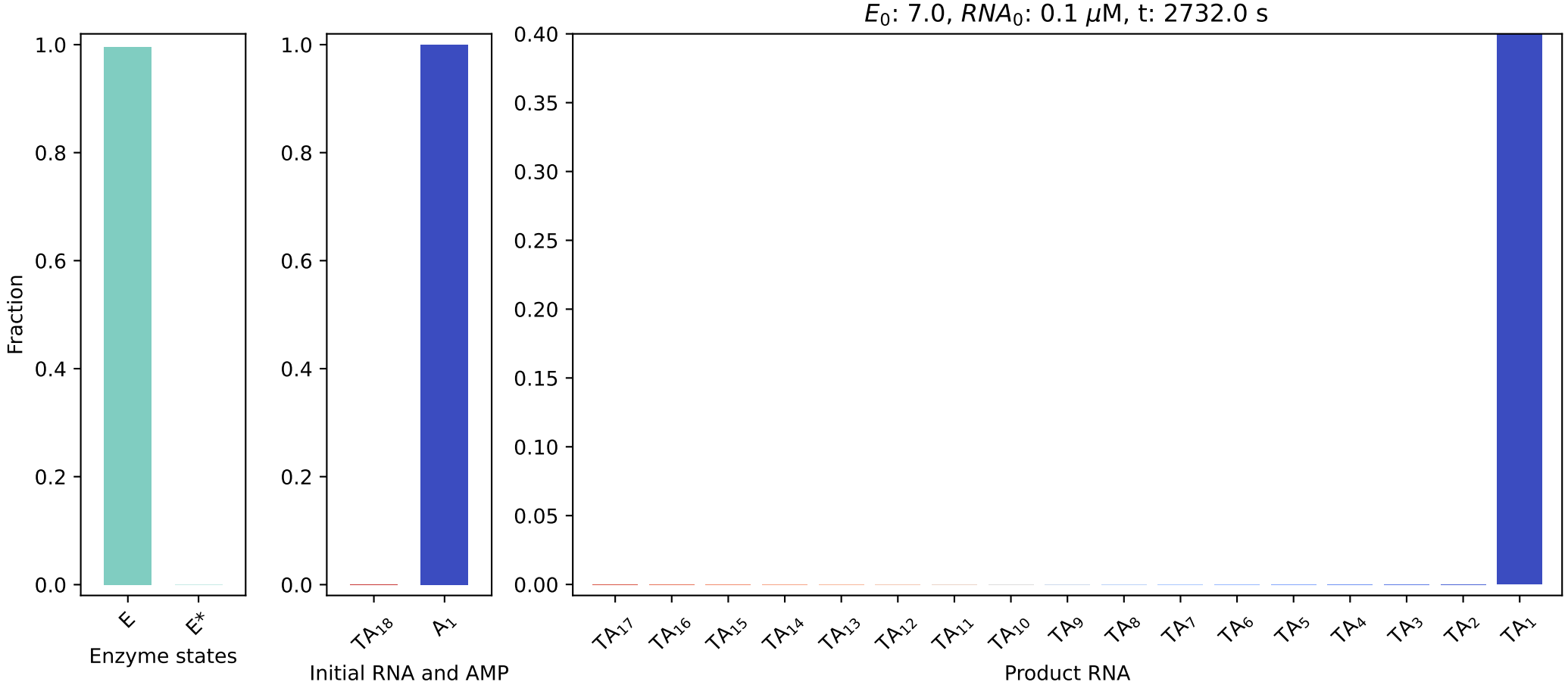
Product RNA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E*
Enzyme states
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A_1
Initial RNA and AMP
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0.30
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TA_{17}
TA_{16}
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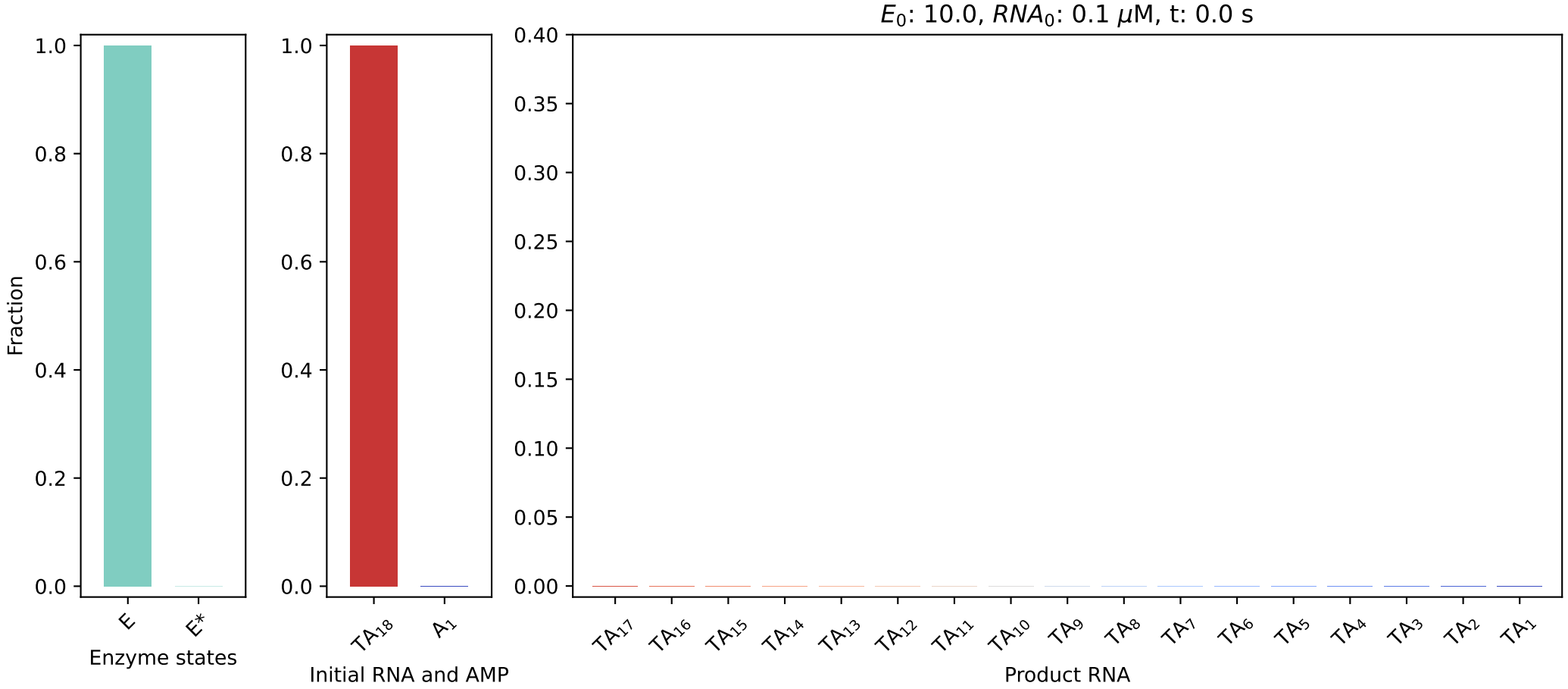
Product RNA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Enzyme states
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A_1
Initial RNA and AMP
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0.30
0.25
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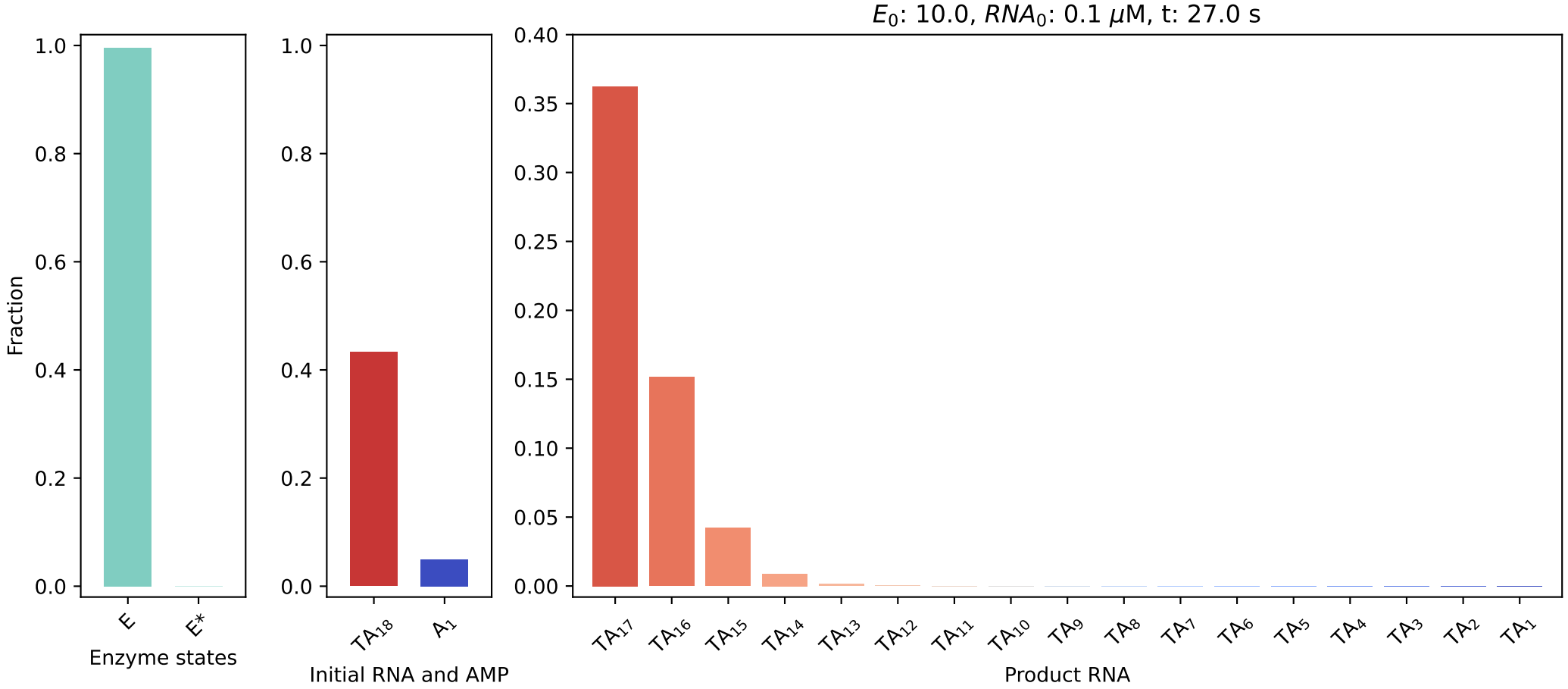
Product RNA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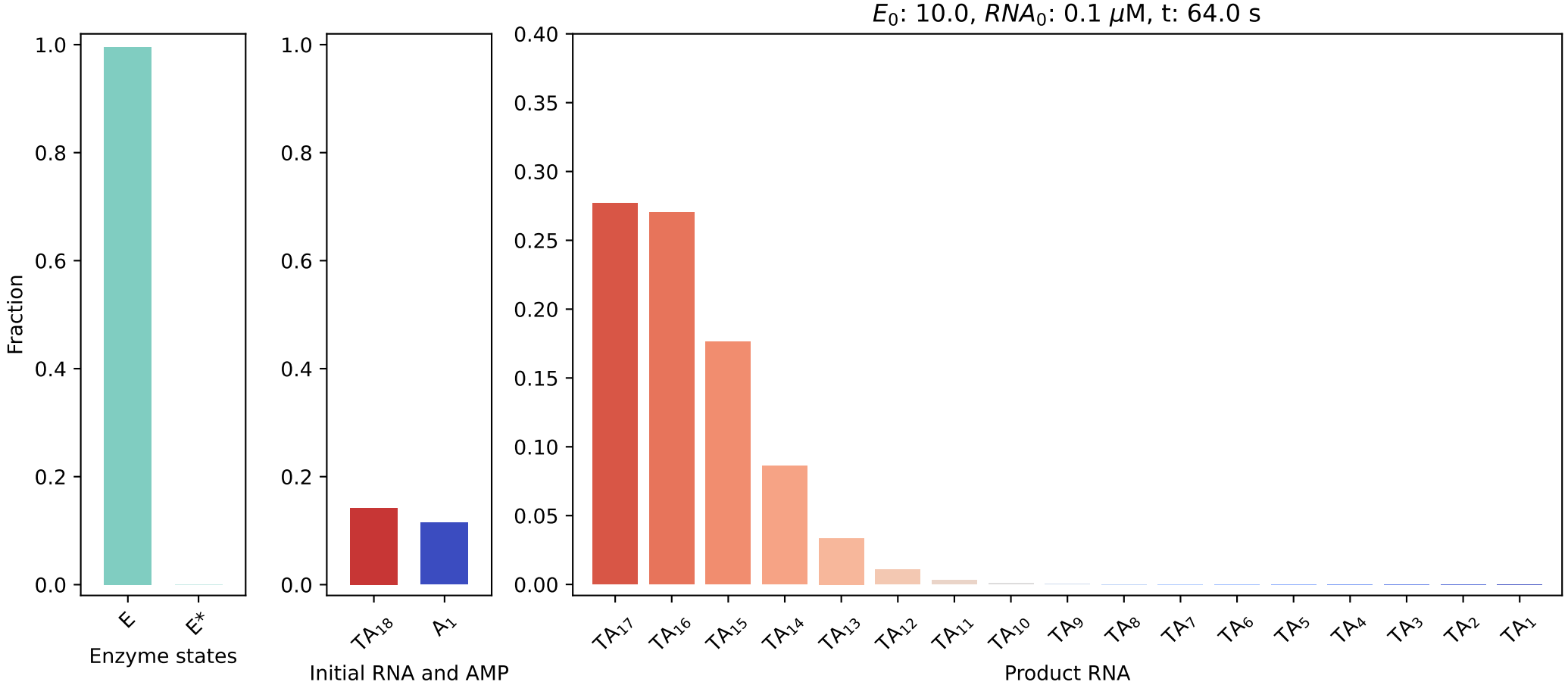
Product RNA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Enzyme states
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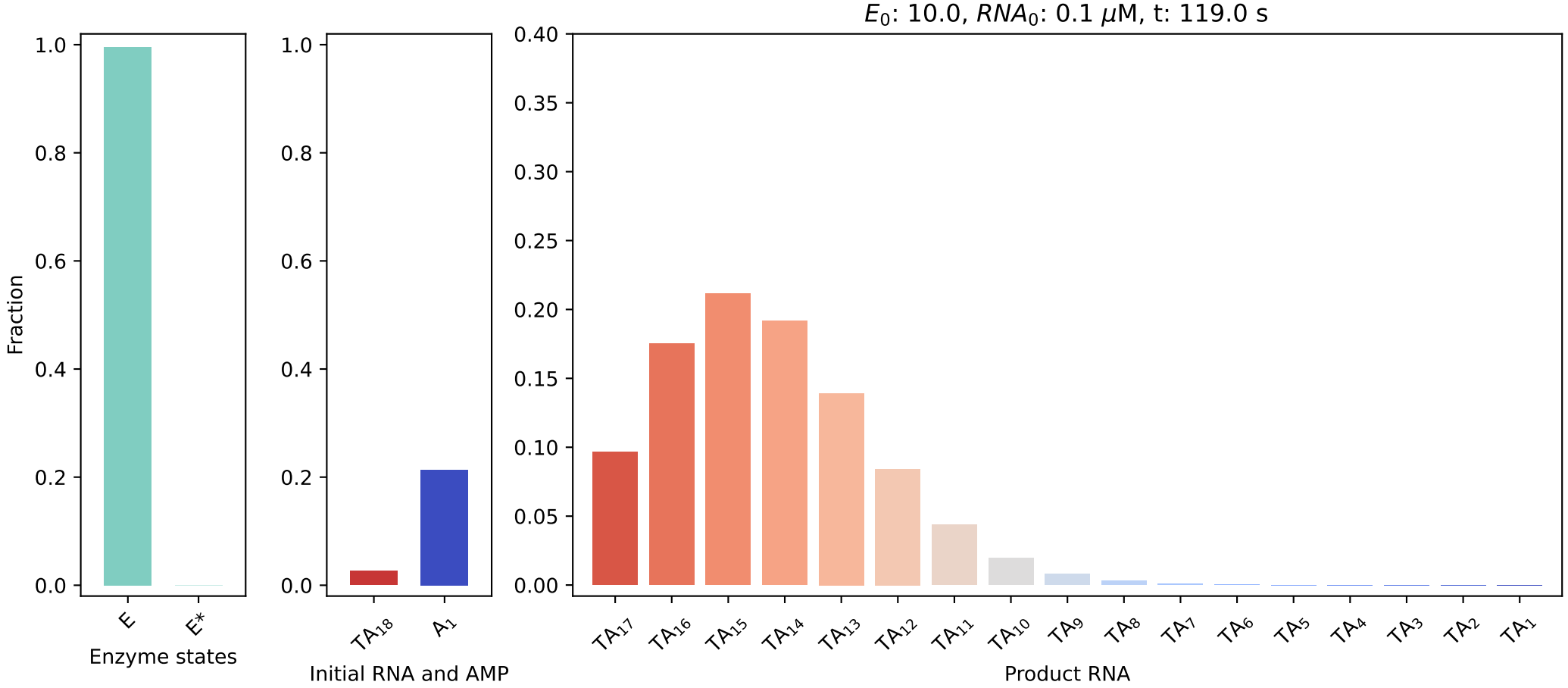
Product RNA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E
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Enzyme states
TA18
A1
Initial RNA and AMP
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TA17
TA16
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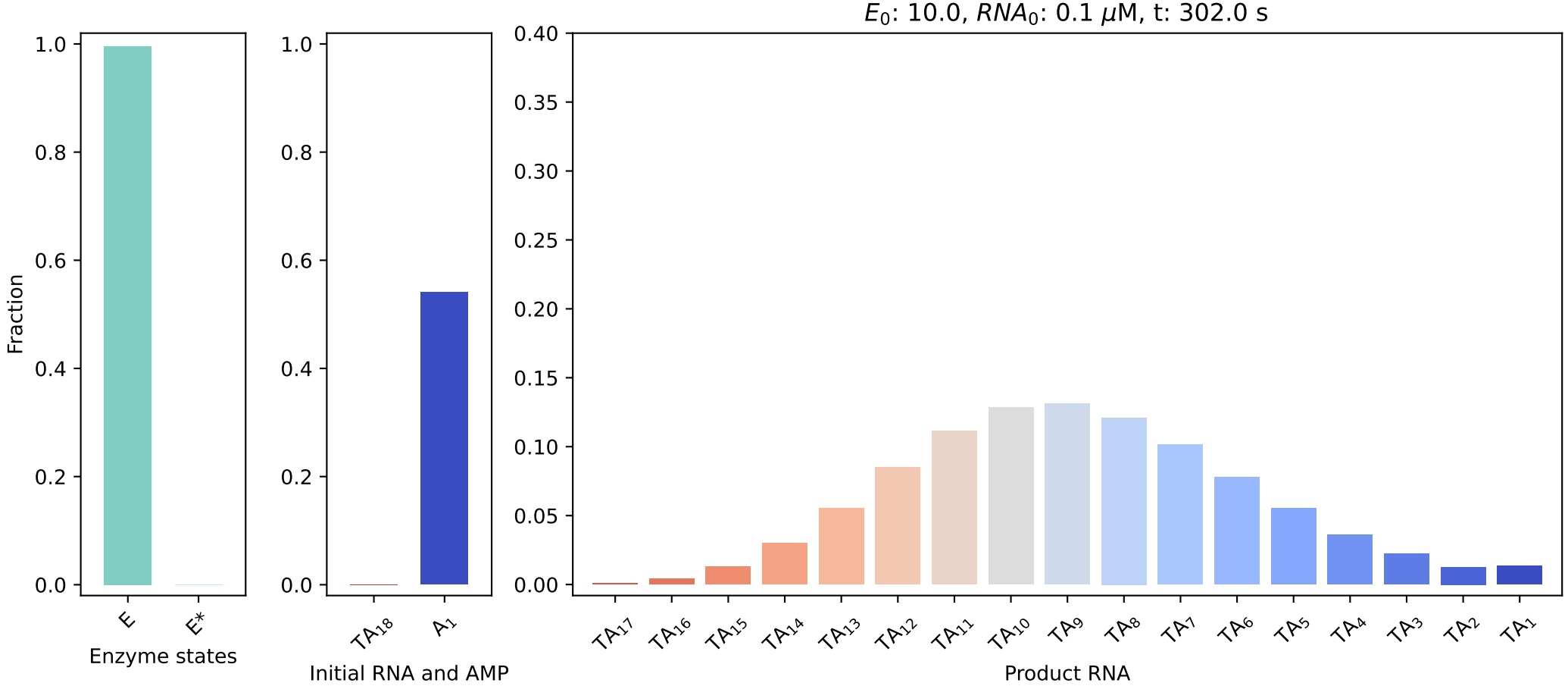
Product RNA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Enzyme states
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A_1
Initial RNA and AMP
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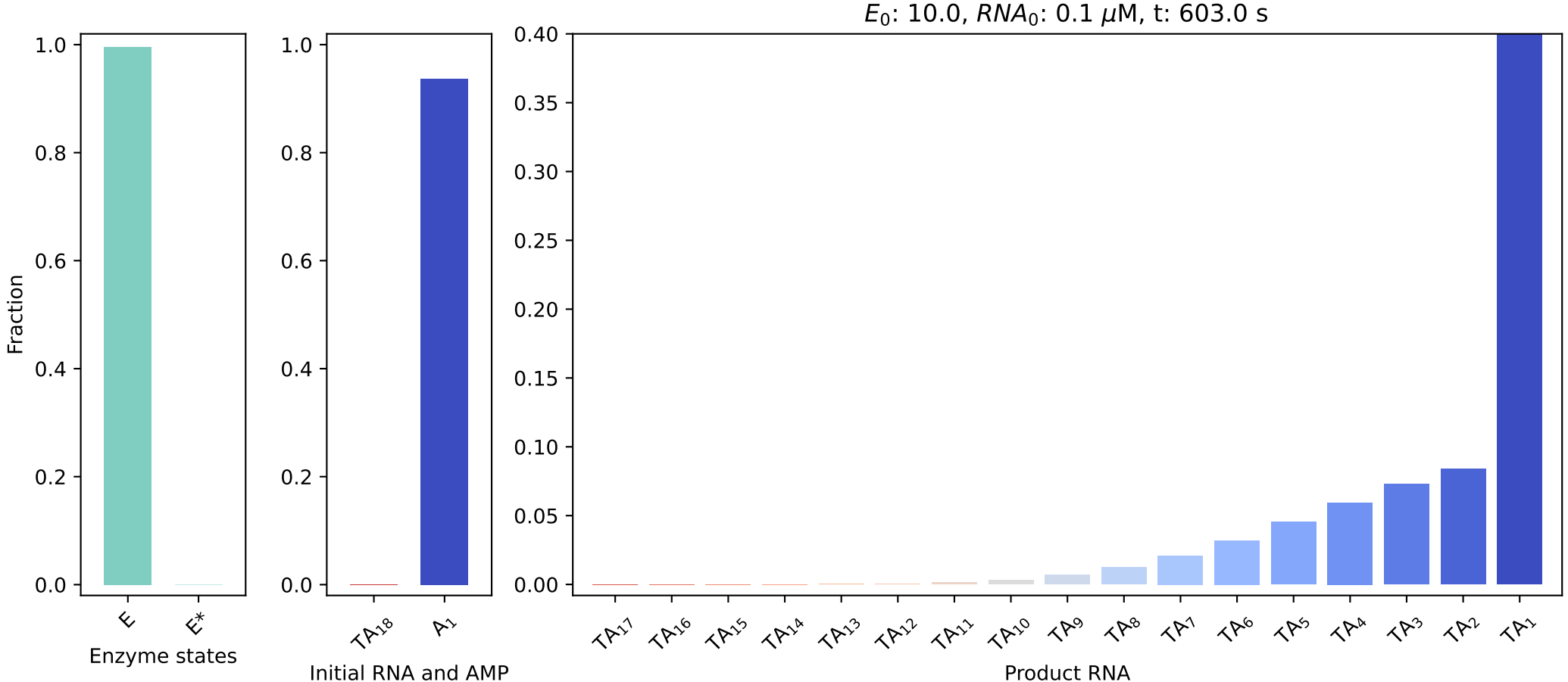
Product RNA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Enzyme states
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A_1
Initial RNA and AMP
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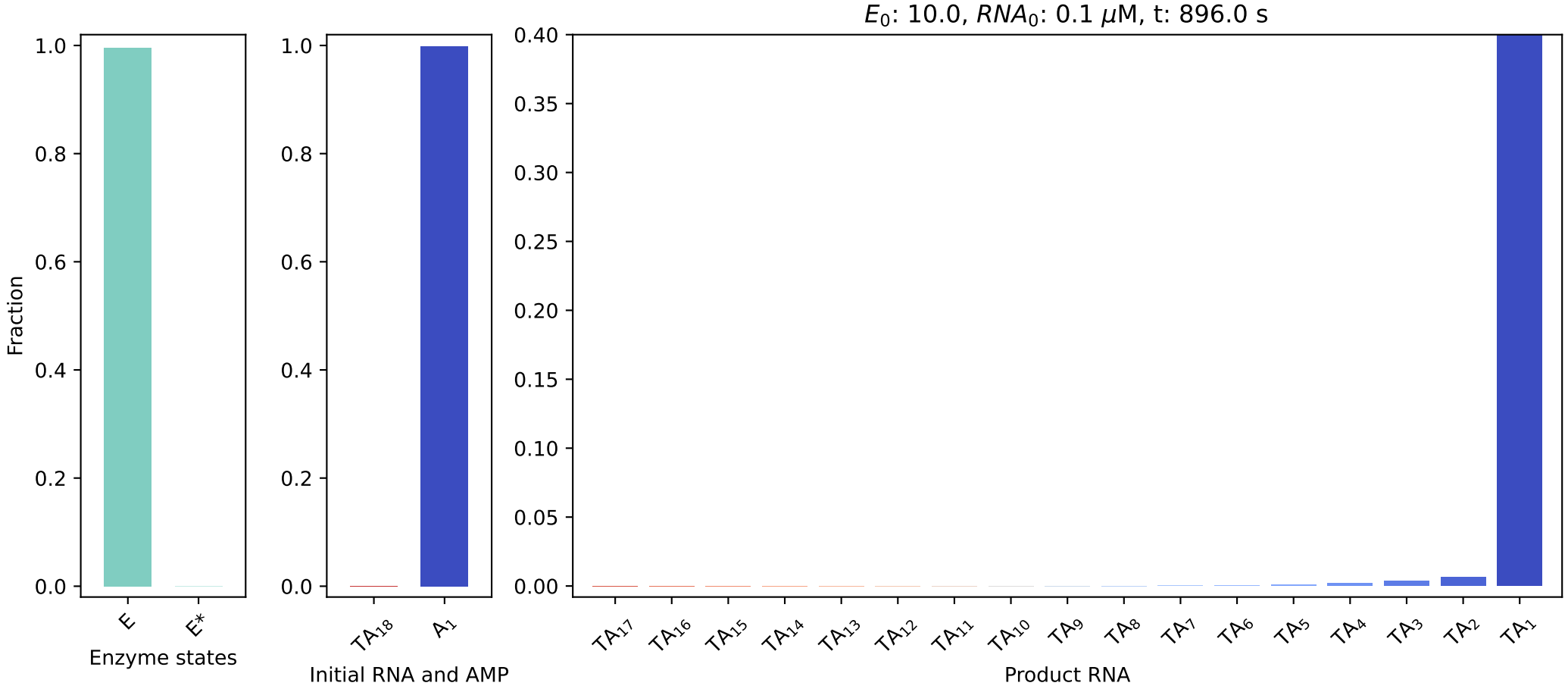
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E
E*
Enzyme states
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A_1
Initial RNA and AMP
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0.30
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0.20
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TA_{17}
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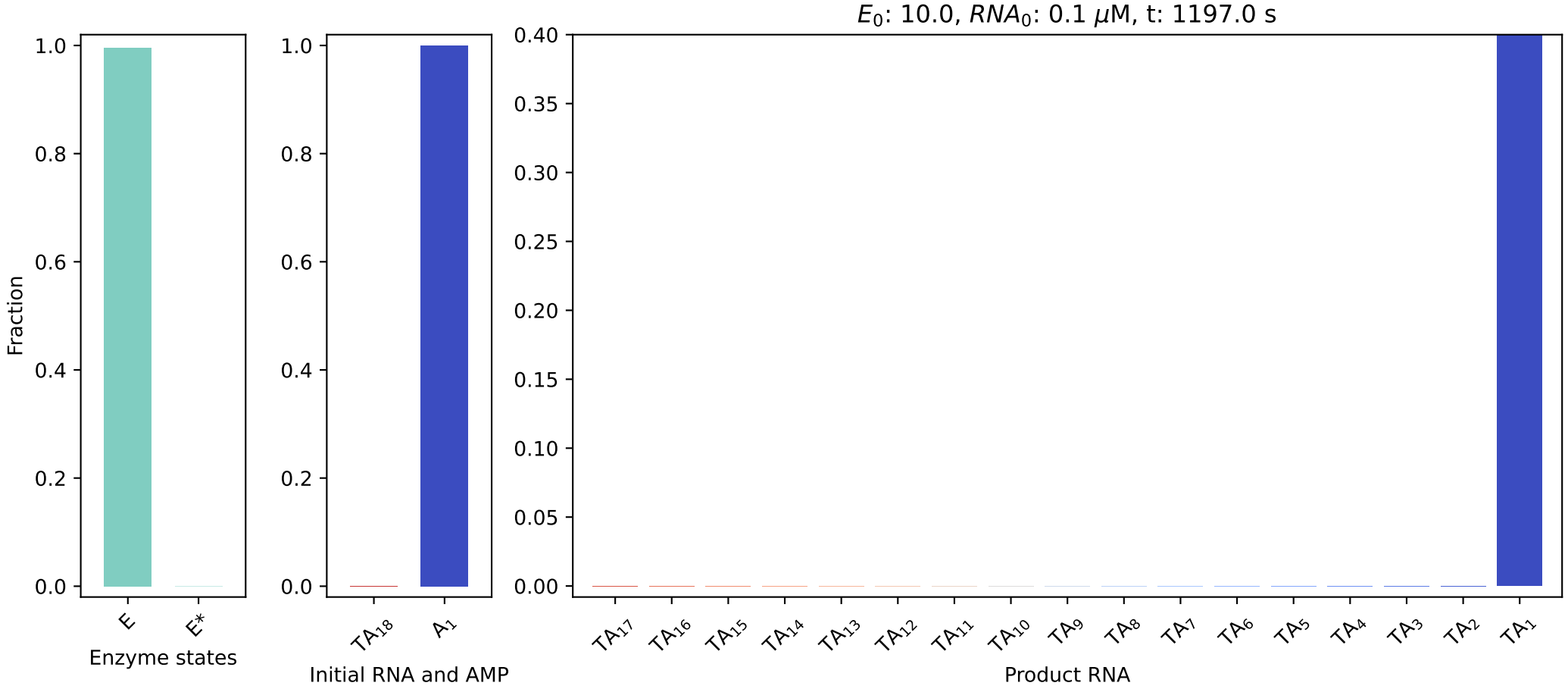
TA_1
Product RNA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0.4
0.2
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E
E*
Enzyme states
TA18
A1
Initial RNA and AMP
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0.30
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0.15
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TA17
TA16
TA15
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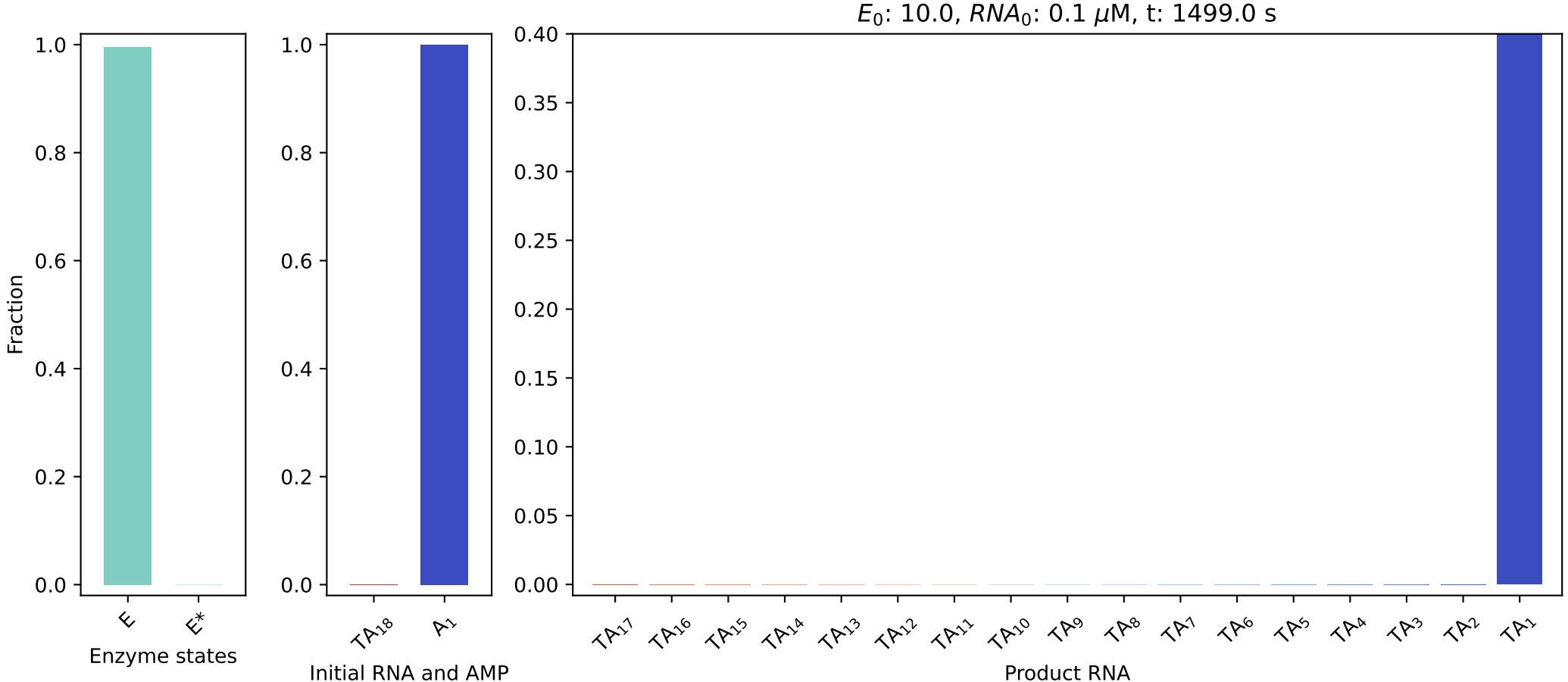
Product RNA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E*
Enzyme states
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A1
Initial RNA and AMP
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0.30
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TA16
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TA11
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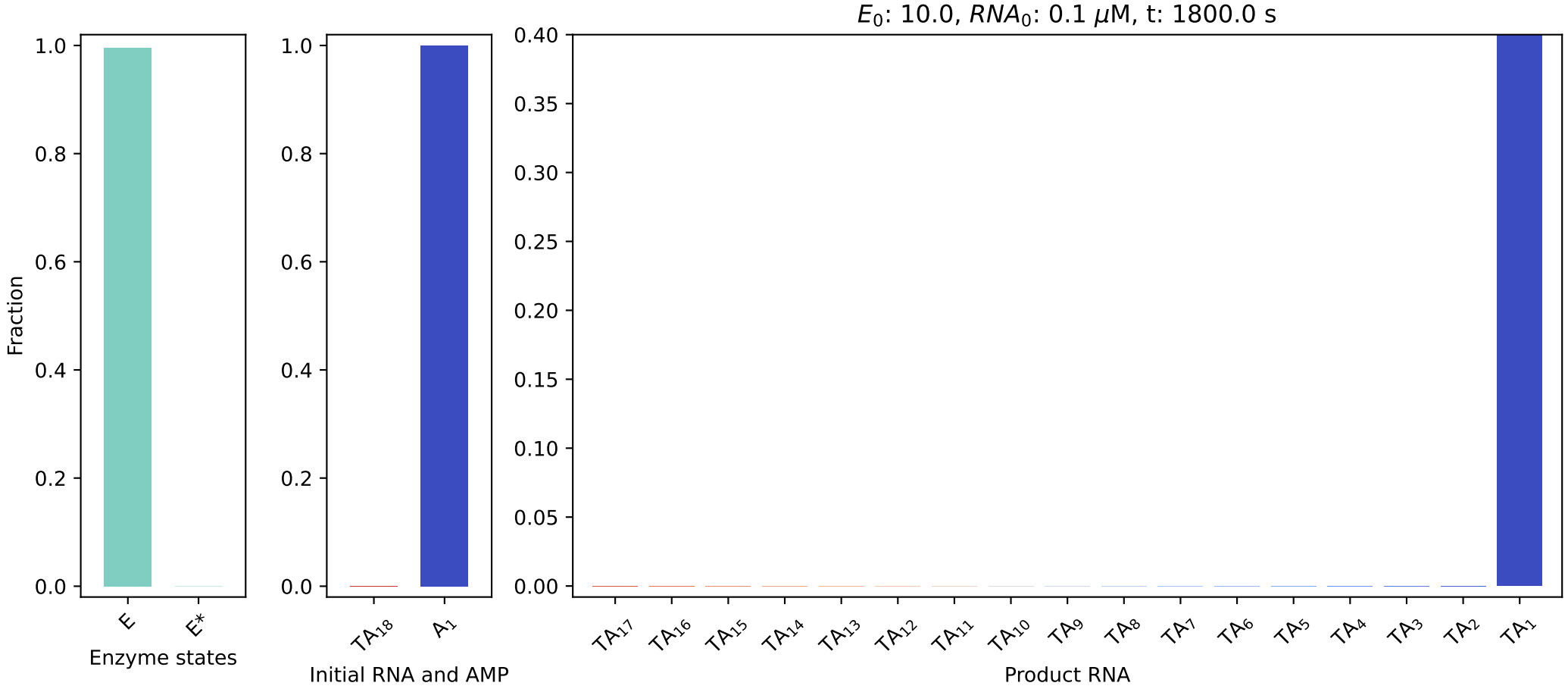
TA7
TA6
TA5
TA4
TA3
TA2
TA1
Product RNA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E
E*
Enzyme states
1.0
0.8
0.6
0.4
0.2
0.0
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
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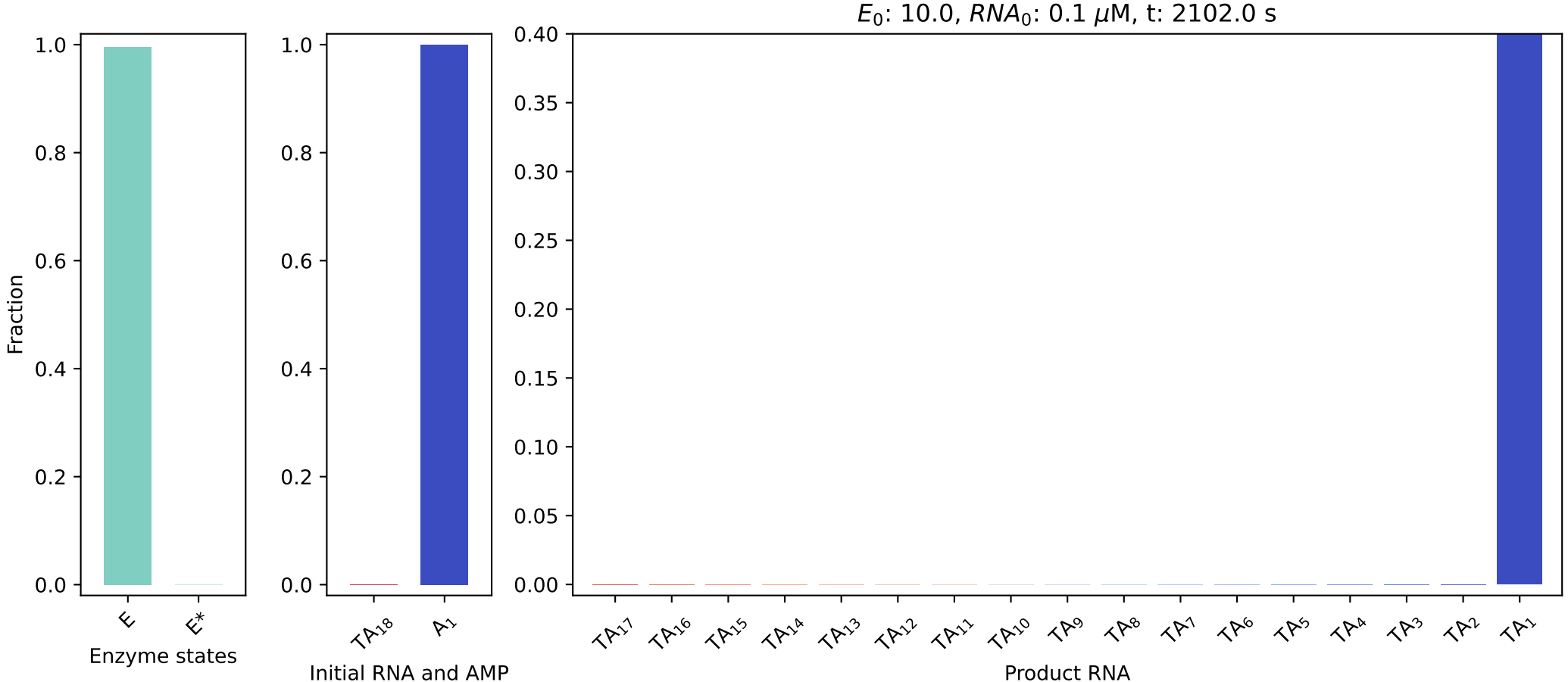
TA_2
TA_1
Product RNA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0.2
0.0
E
E*
Enzyme states
TA18
A1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
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TA17
TA16
TA15
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TA7
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TA5
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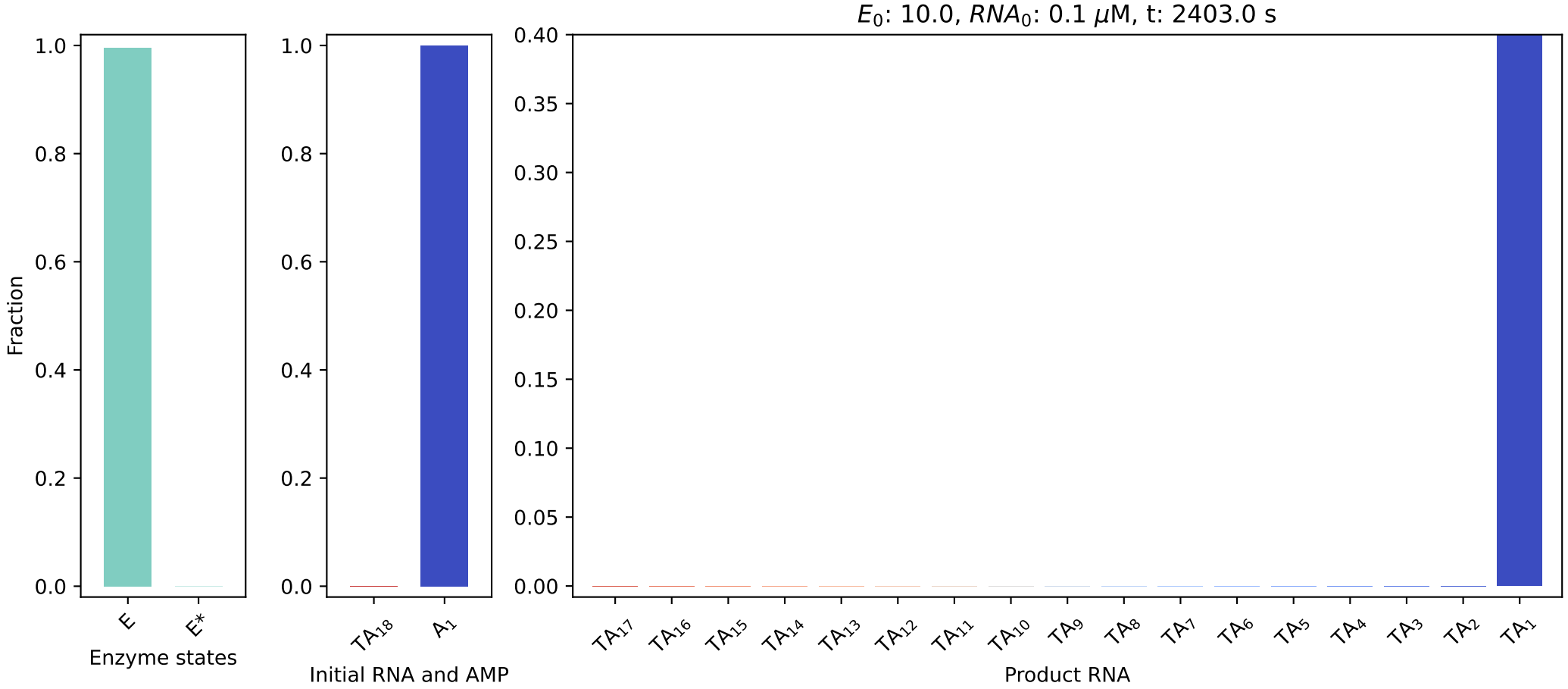
TA2
TA1
Product RNA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E*
Enzyme states
TA18
A1
Initial RNA and AMP
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0.35
0.30
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0.15
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0.05
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TA16
TA15
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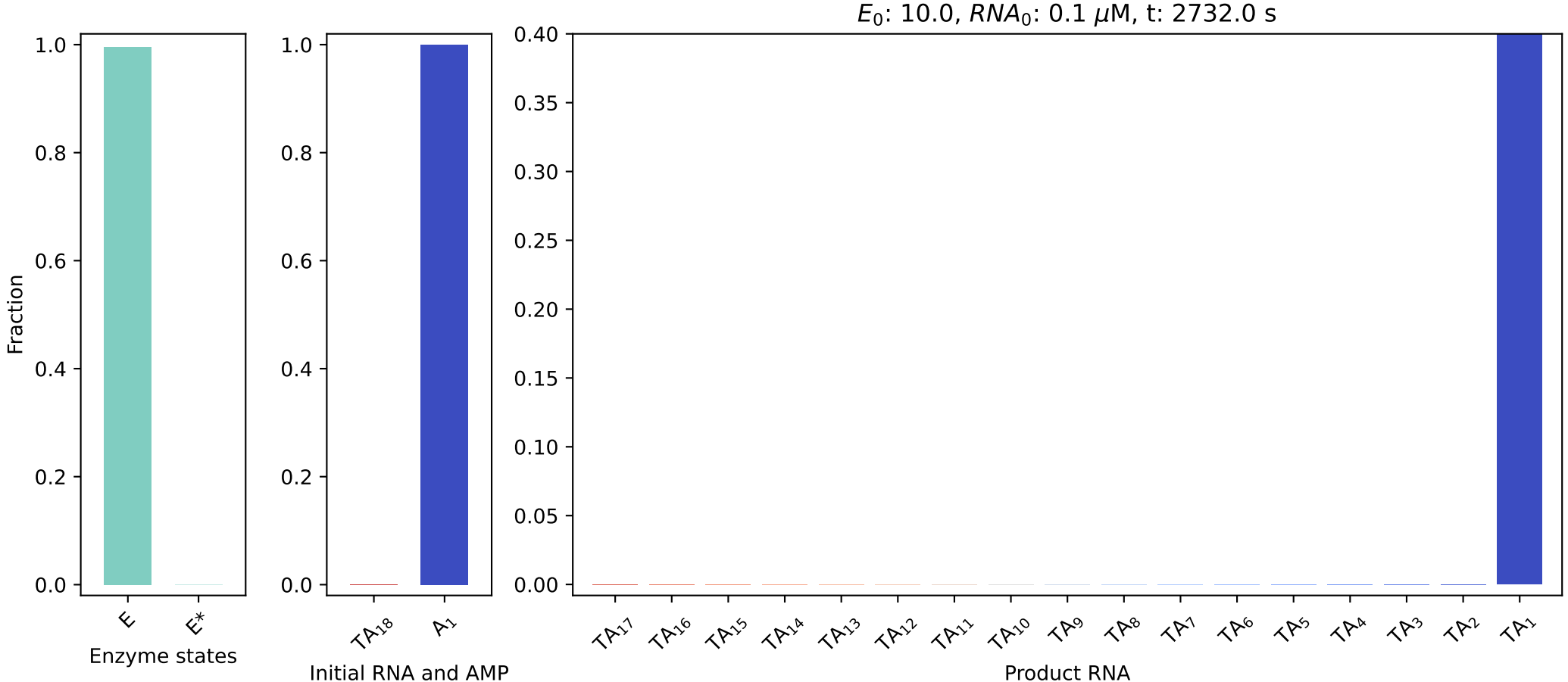
TA3
TA2
TA1
Product RNA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Enzyme states
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Initial RNA and AMP
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0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA17
TA16
TA15
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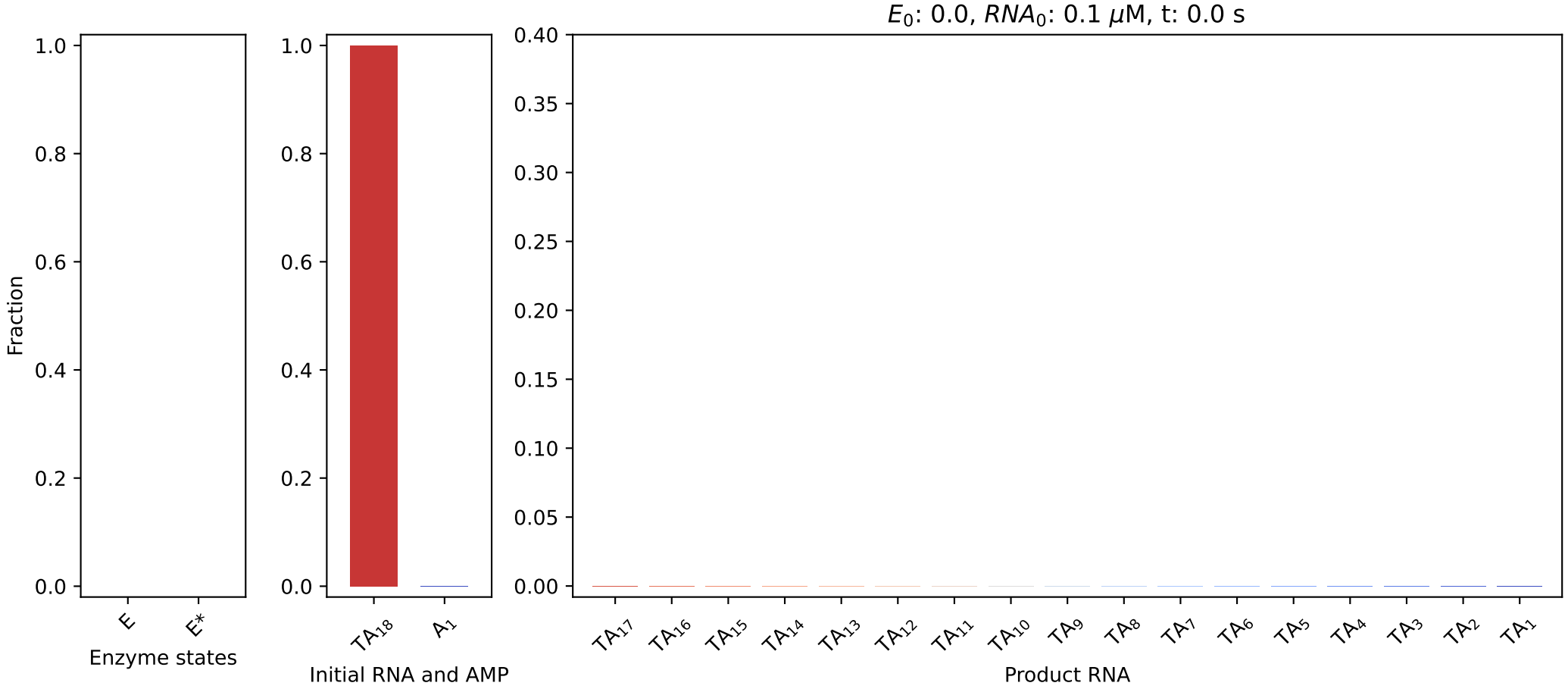
TA3
TA2
TA1
Product RNA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E
E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
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0.30
0.25
0.20
0.15
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TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
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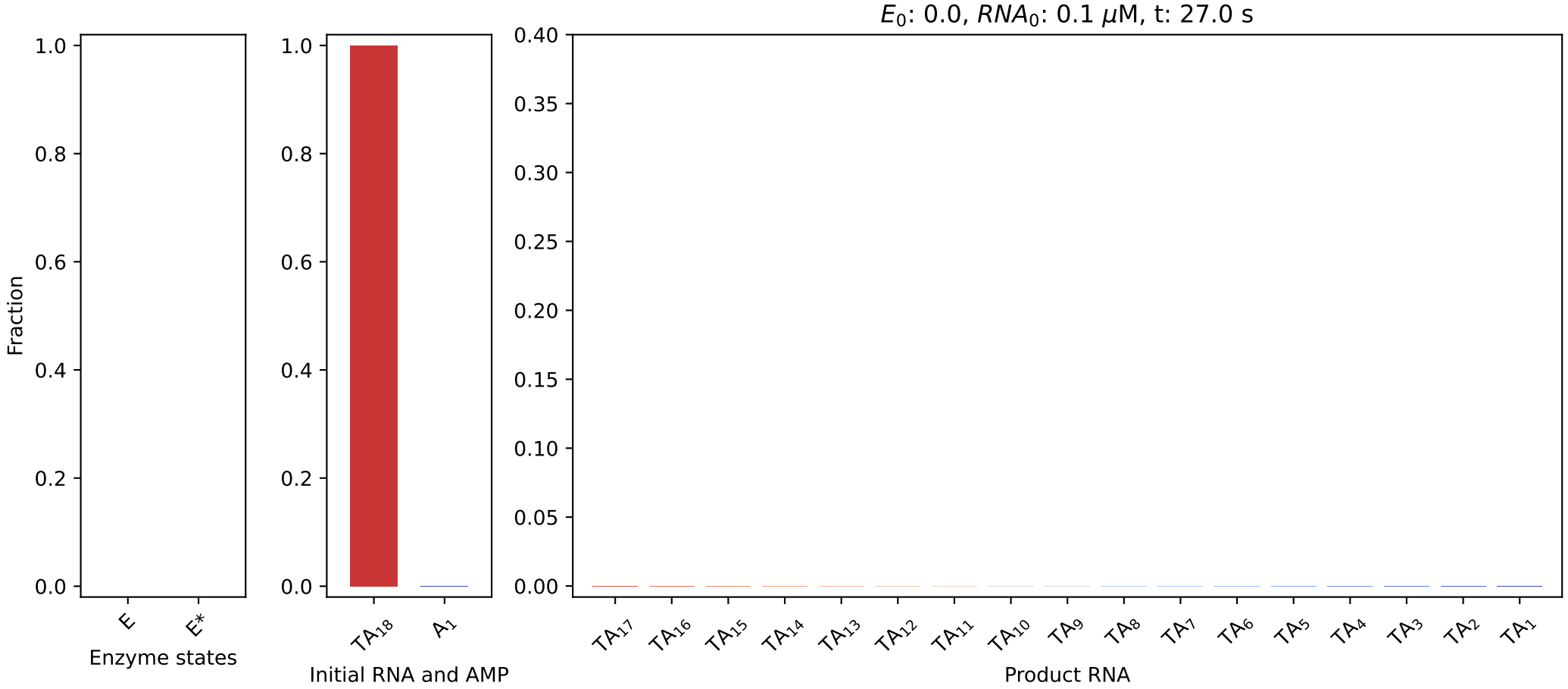
Product RNA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E
E*
Enzyme states
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0.6
0.4
0.2
0.0
TA_{18}
A_1
Initial RNA and AMP
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0.35
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TA_4
TA_3
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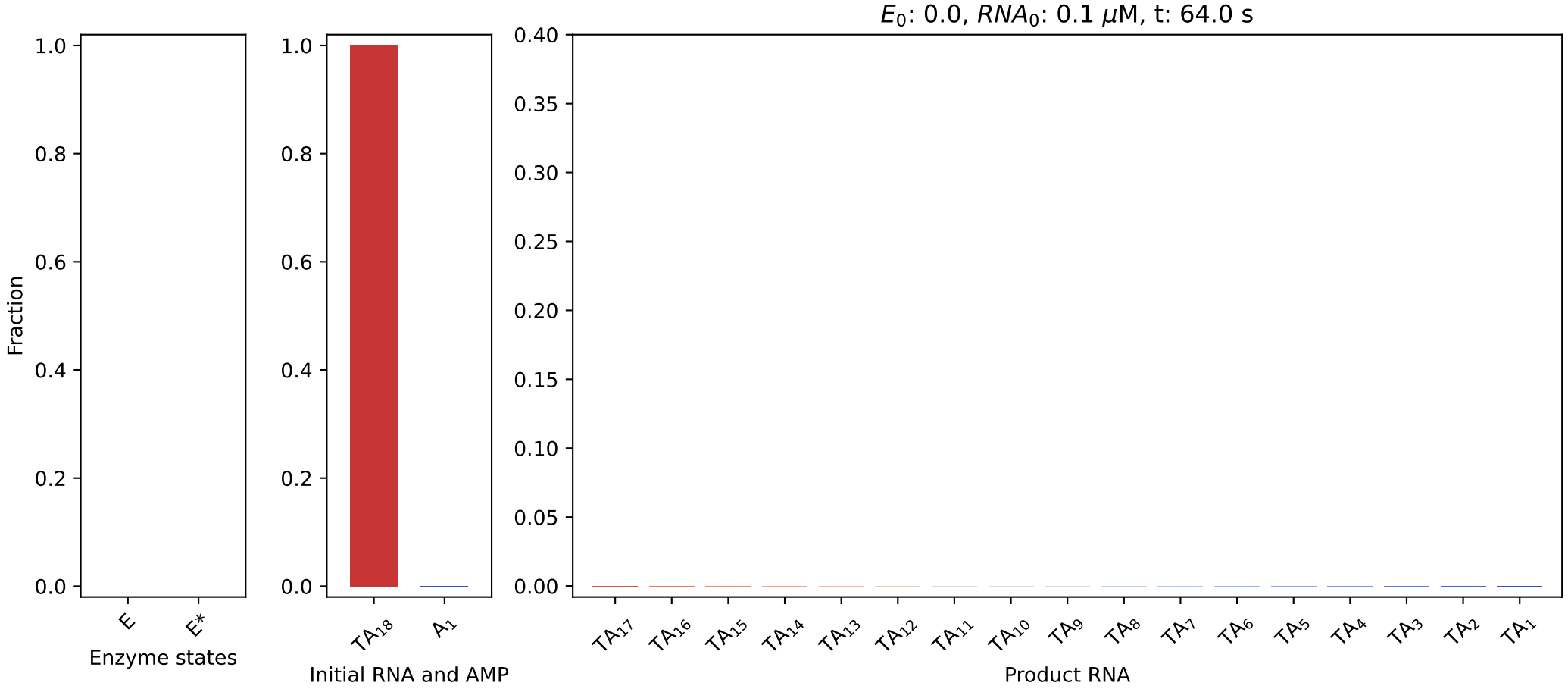
TA_1
Product RNA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Enzyme states
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A_1
Initial RNA and AMP
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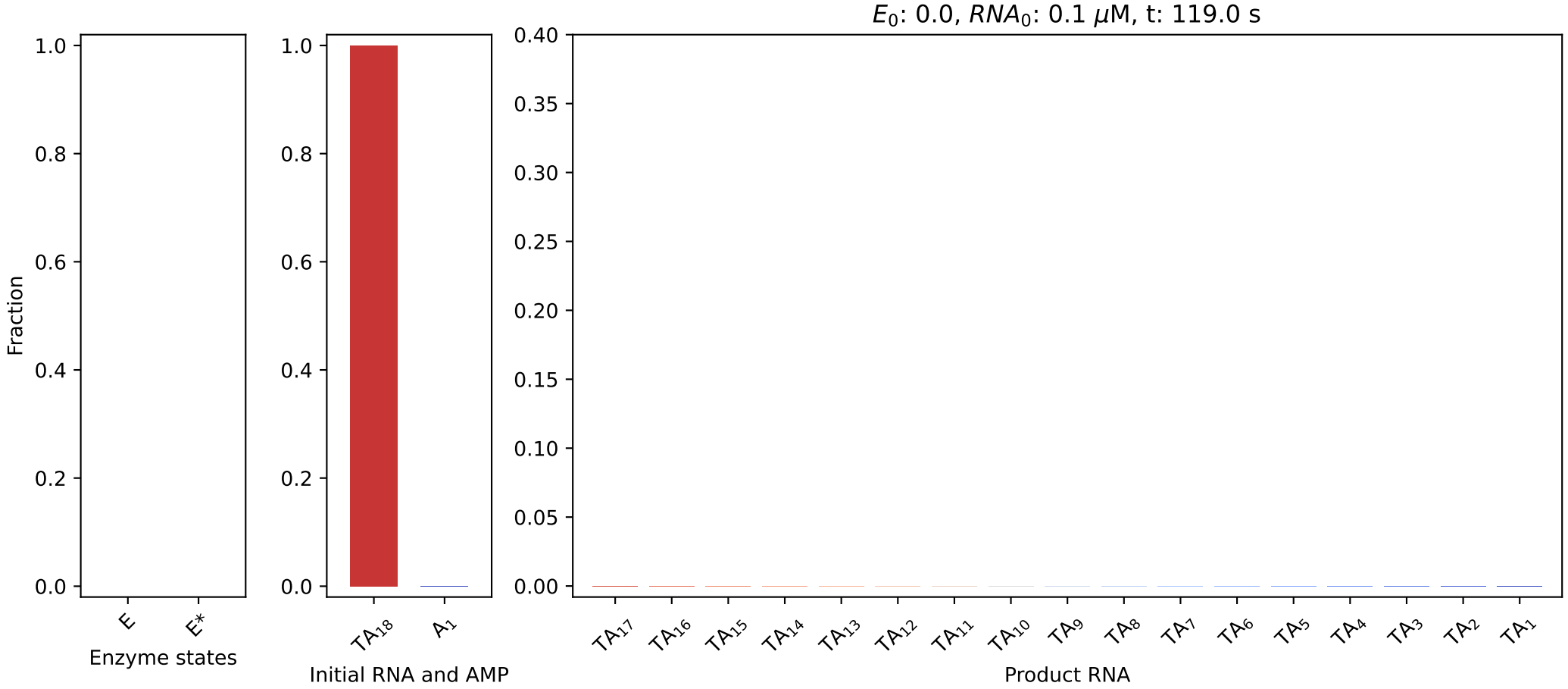
TA_3
TA_2
TA_1
Product RNA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E
E*
Enzyme states
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0.8
0.6
0.4
0.2
0.0
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A_1
Initial RNA and AMP
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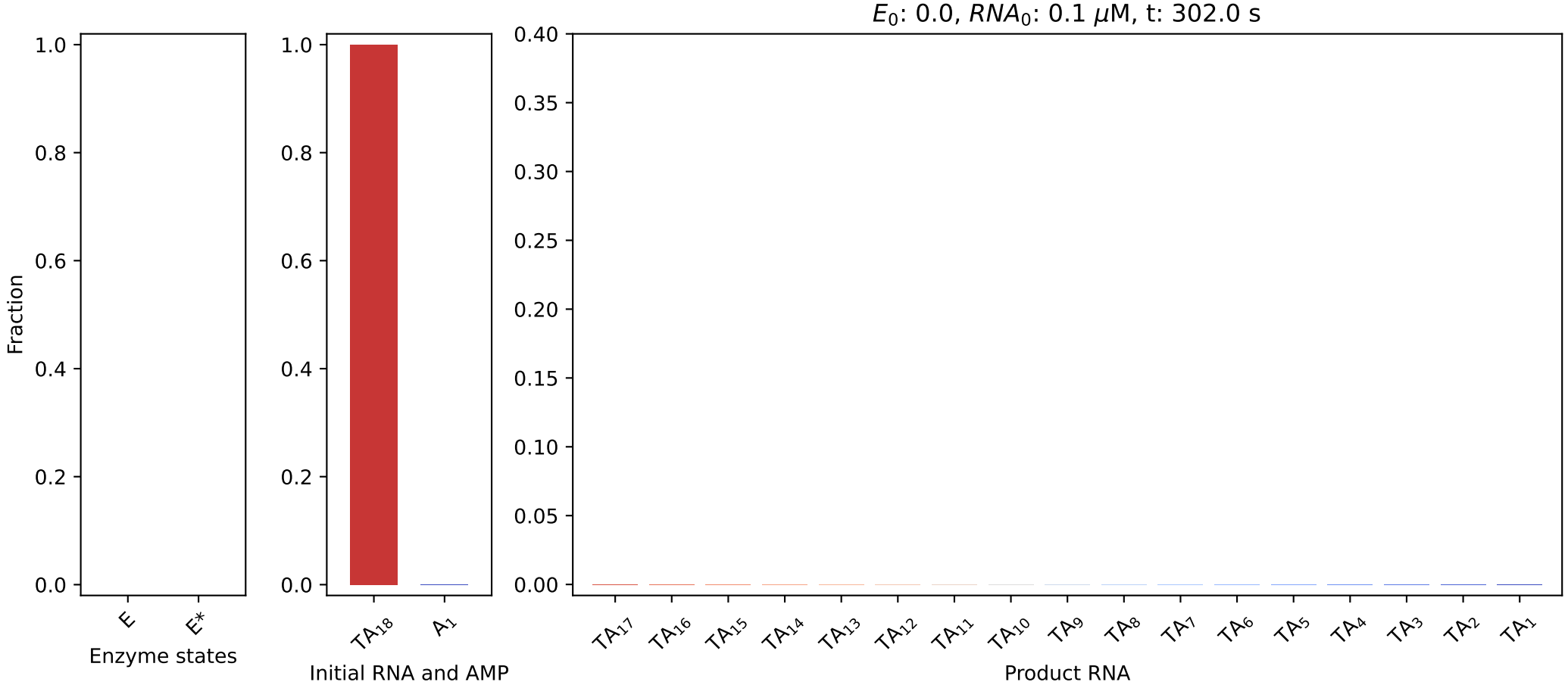
Product RNA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E*
Enzyme states
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0.6
0.4
0.2
0.0
TA_{18}
A_1
Initial RNA and AMP
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0.25
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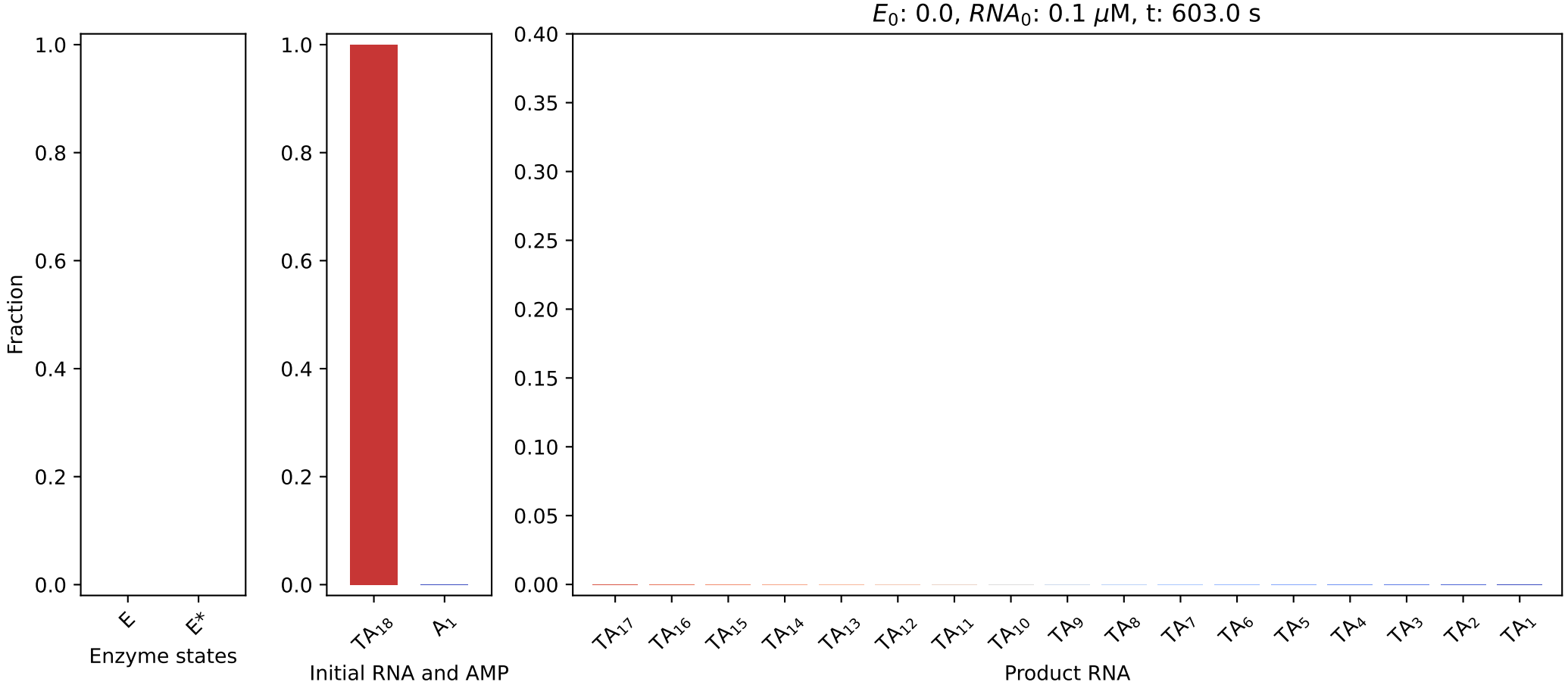
TA_1
Product RNA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Enzyme states
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0.0
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A_1
Initial RNA and AMP
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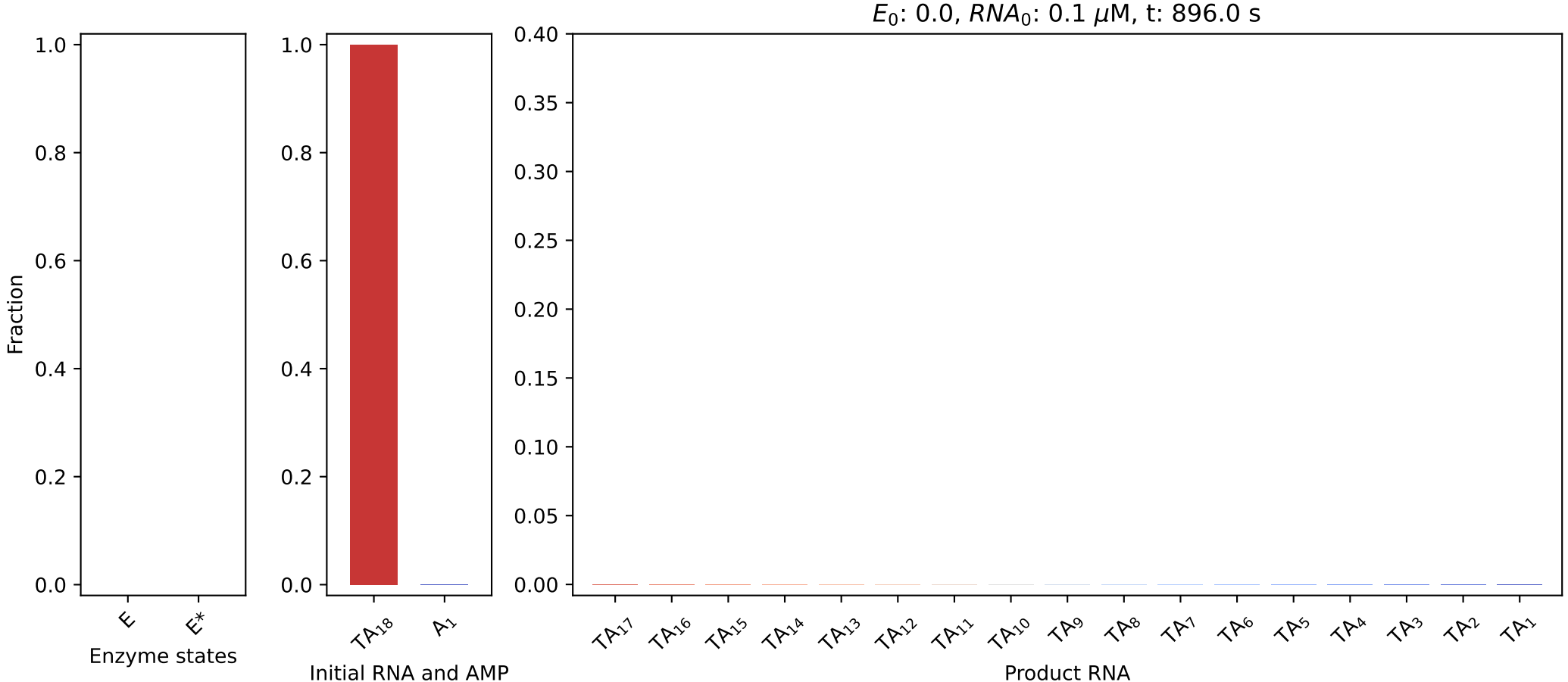
TA_2
TA_1
Product RNA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Enzyme states
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Initial RNA and AMP
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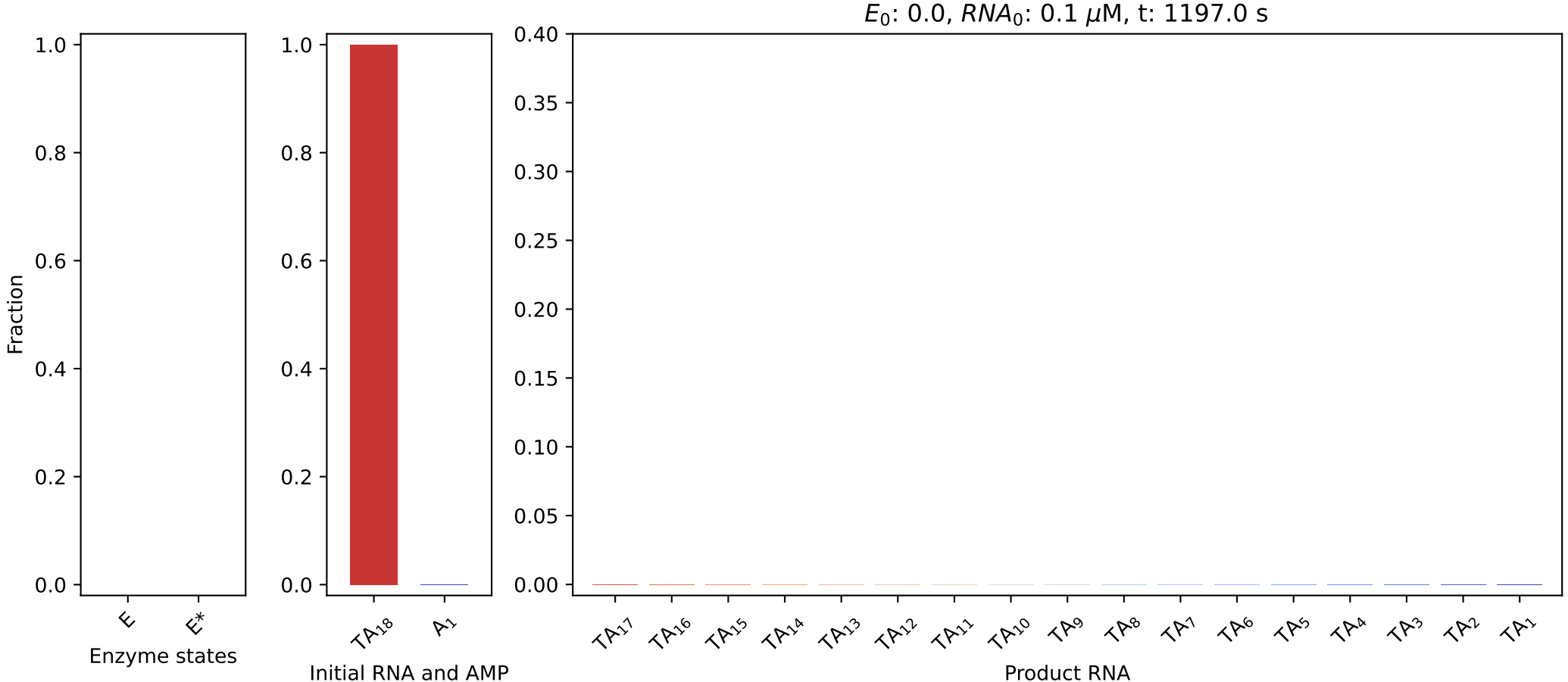
Product RNA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Enzyme states
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A_1
Initial RNA and AMP
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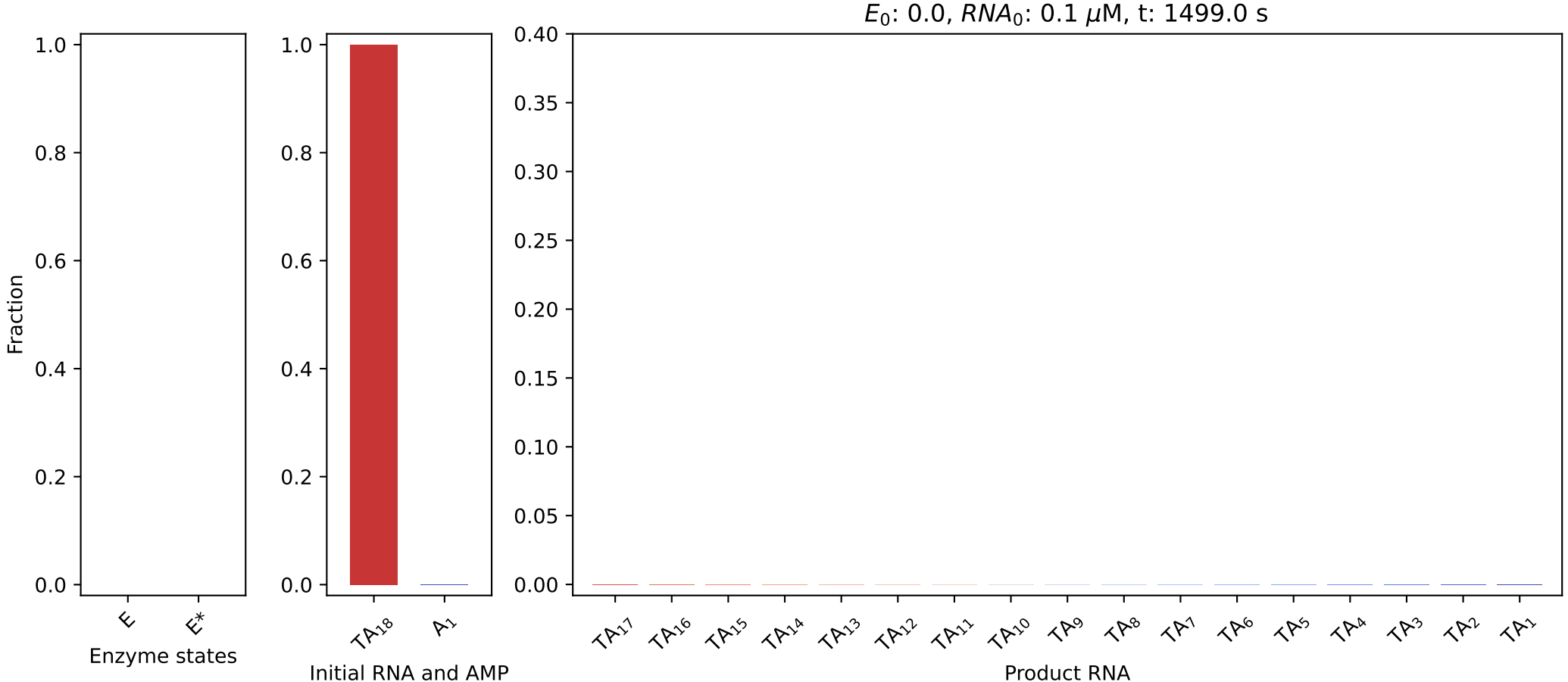
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Enzyme states
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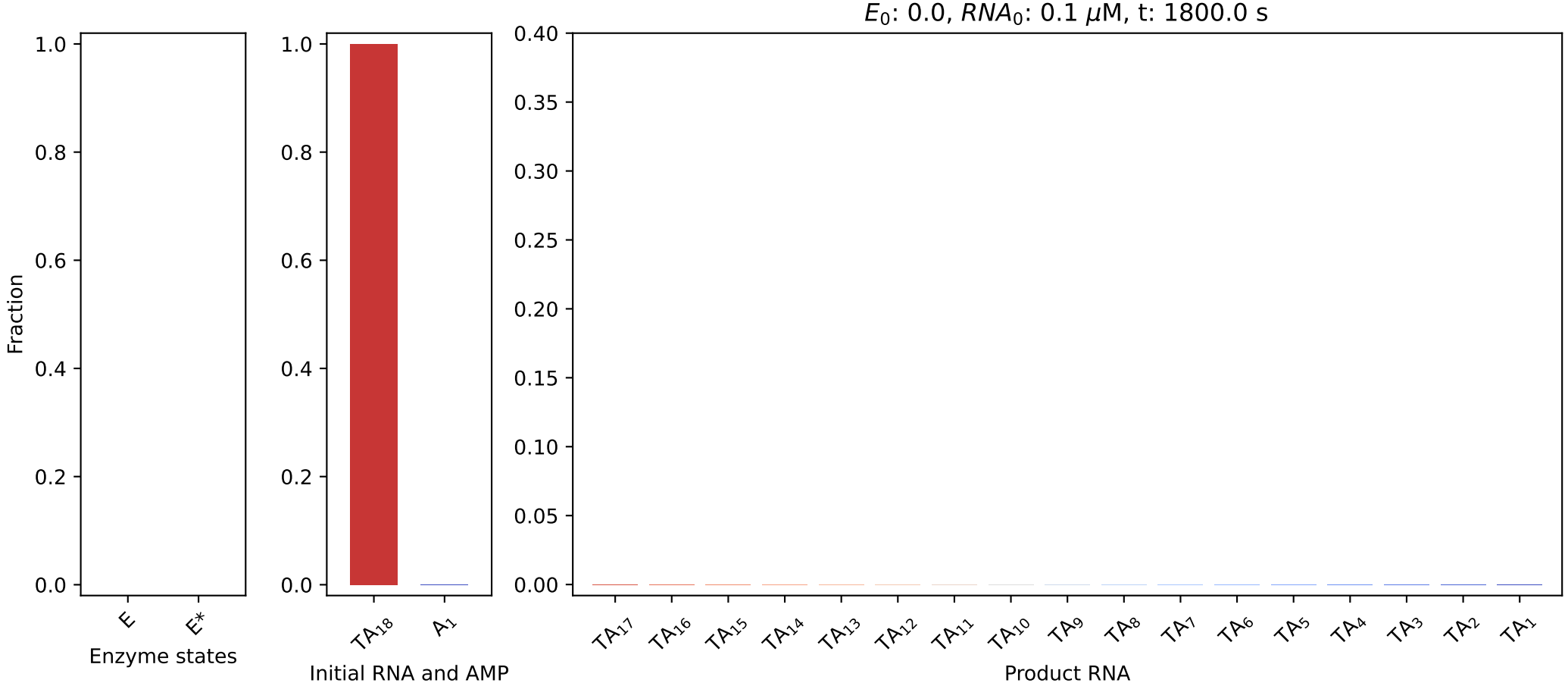
Product RNA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Enzyme states
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Initial RNA and AMP
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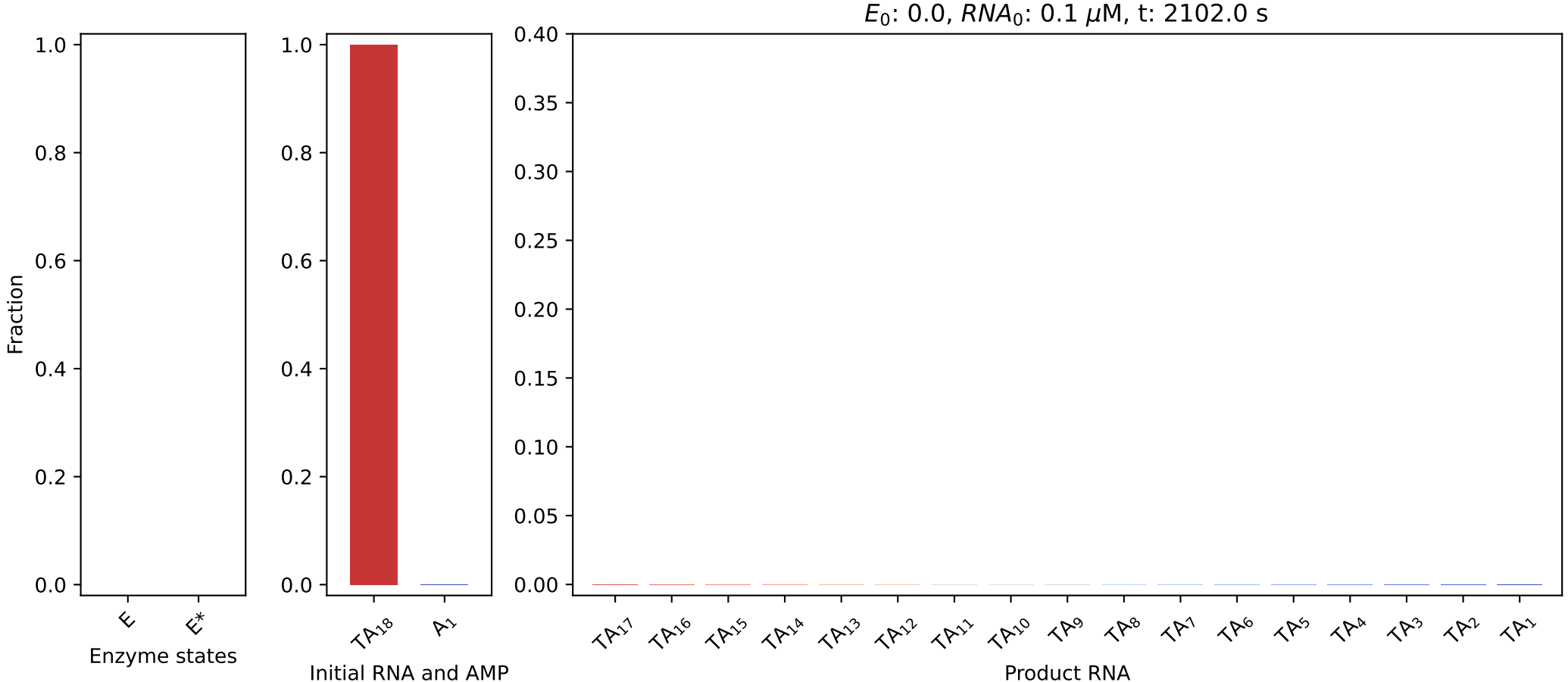
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A_1
Initial RNA and AMP
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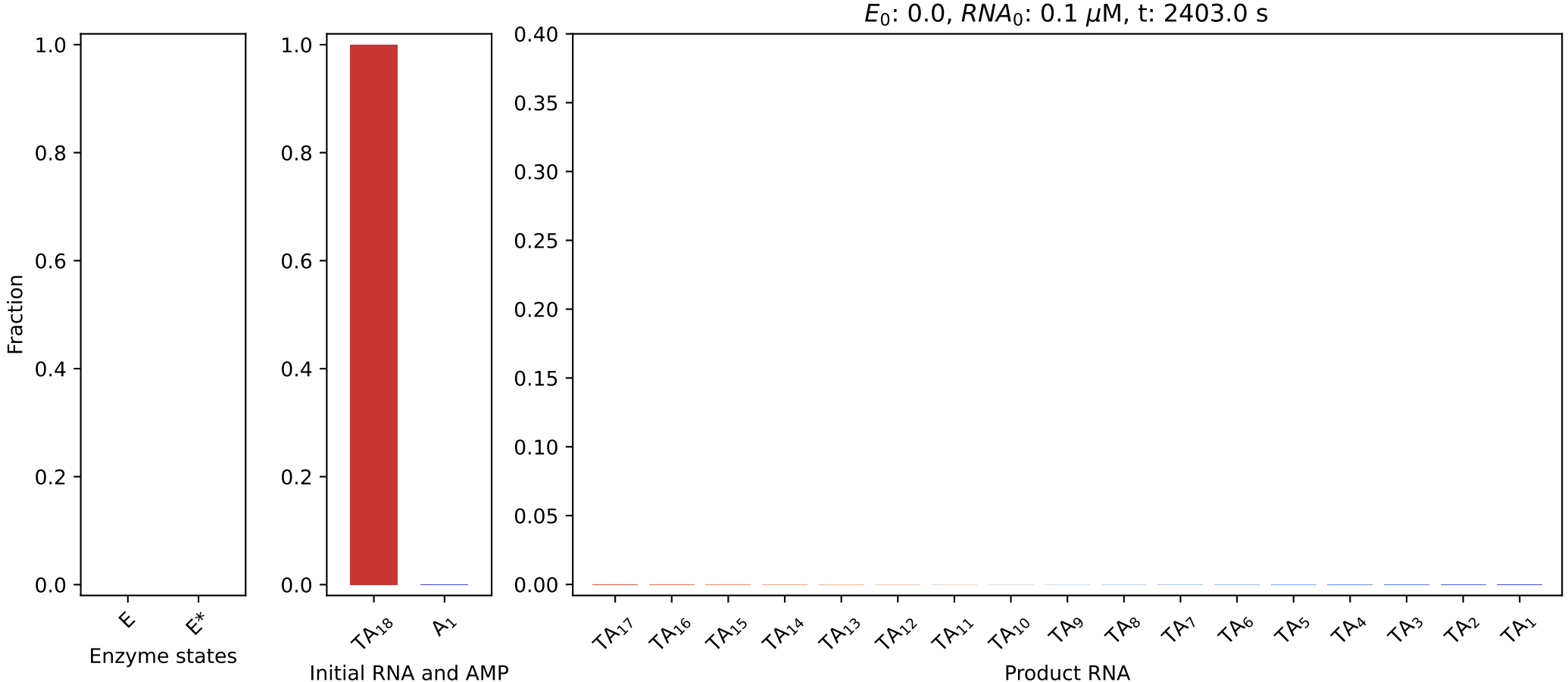
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Enzyme states
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TA_{18}
A_1
Initial RNA and AMP
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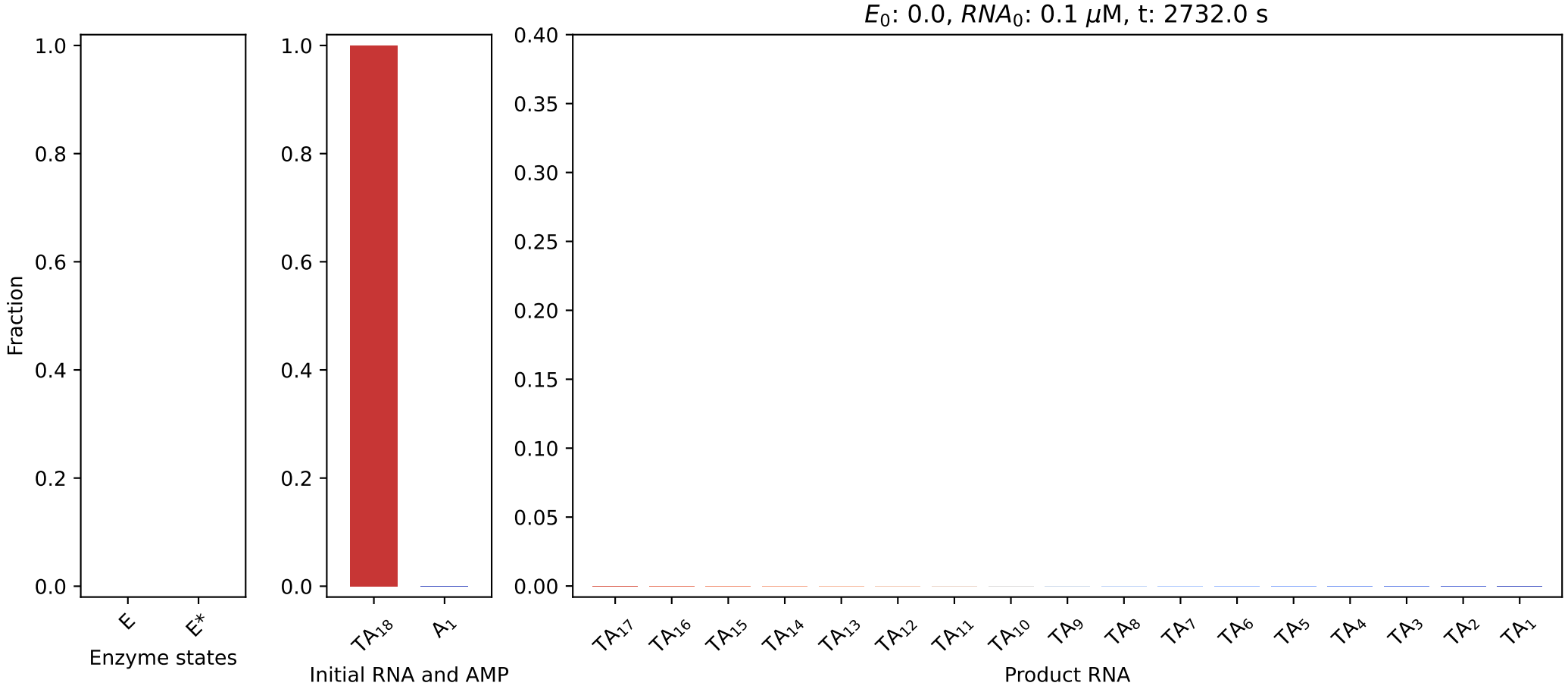
Product RNA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A_1
Initial RNA and AMP
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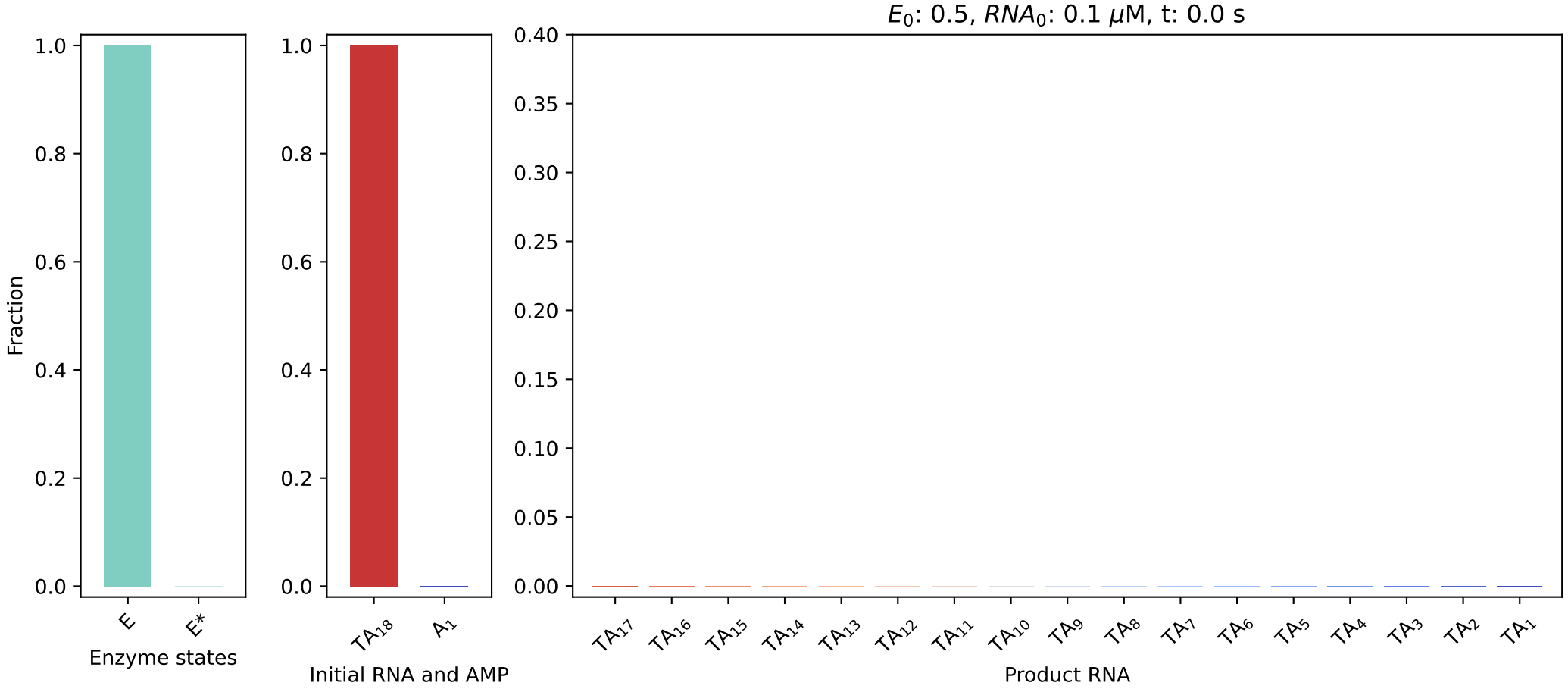
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Enzyme states
TA18
A1
Initial RNA and AMP
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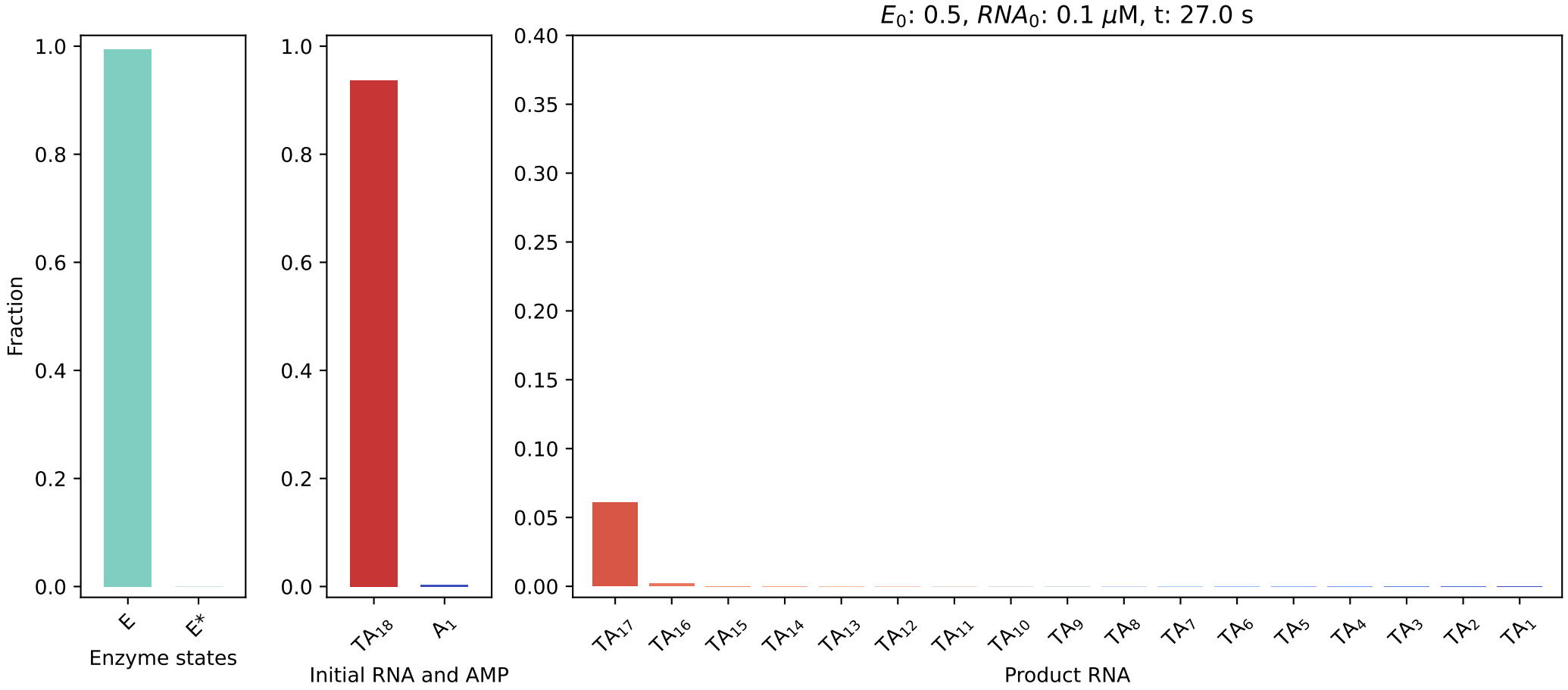
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Enzyme states
TA18
A1
Initial RNA and AMP
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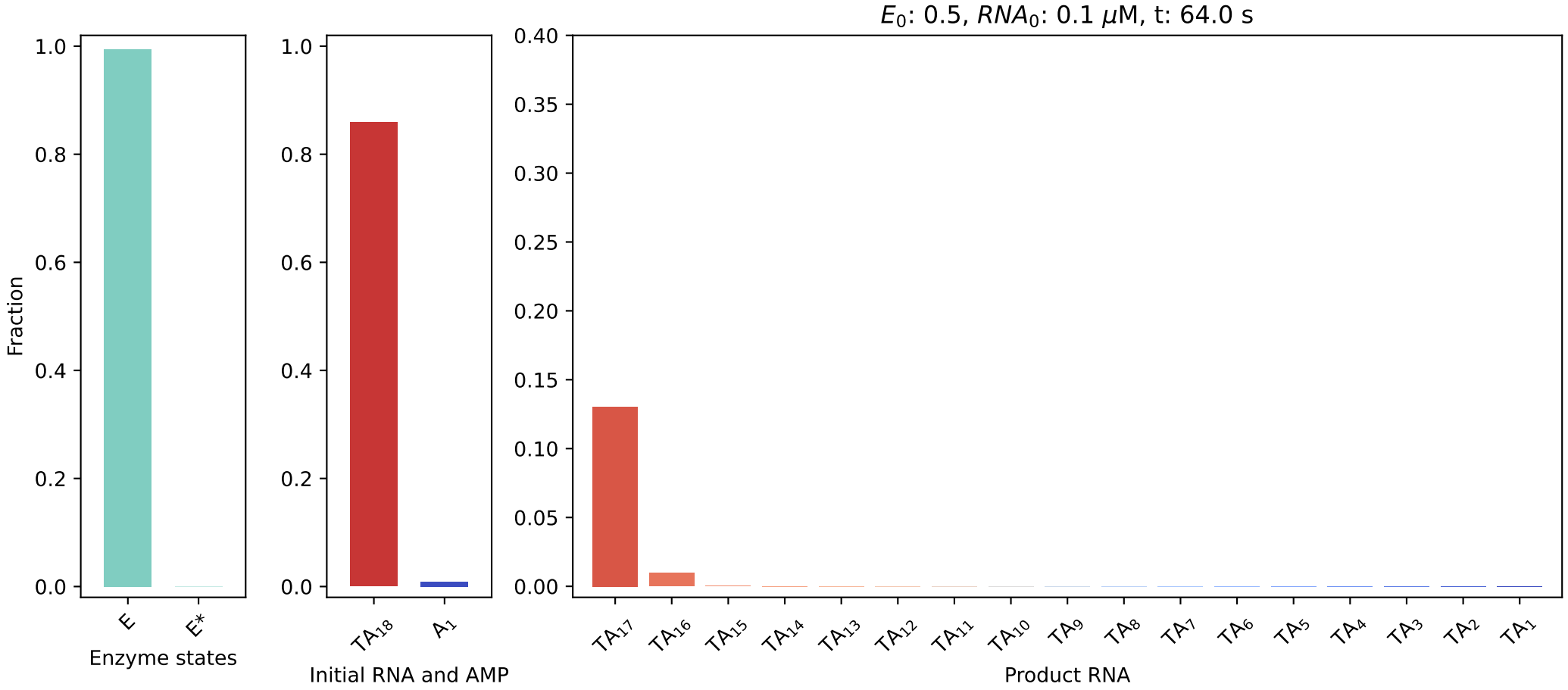
Product RNA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Enzyme states
TA18
A1
Initial RNA and AMP
0.40
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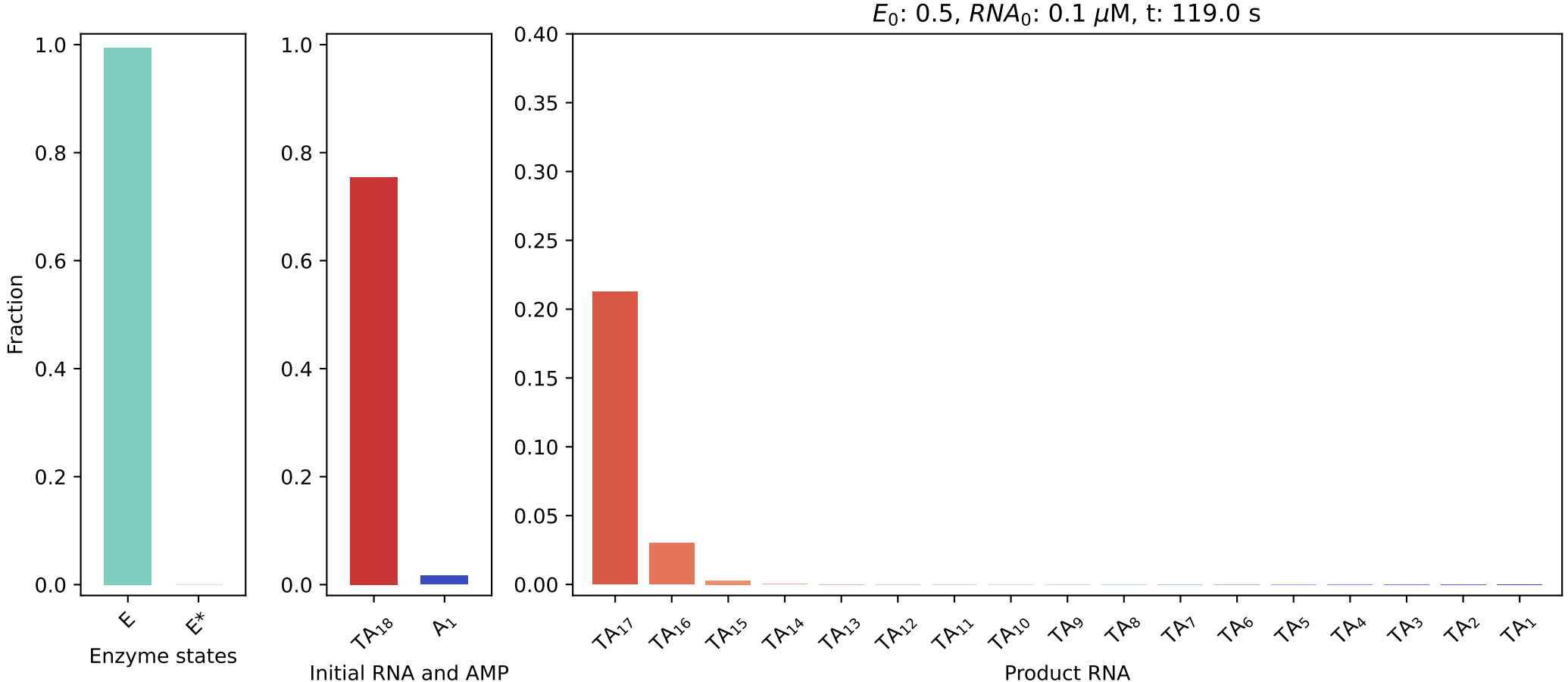
Product RNA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E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
0.40
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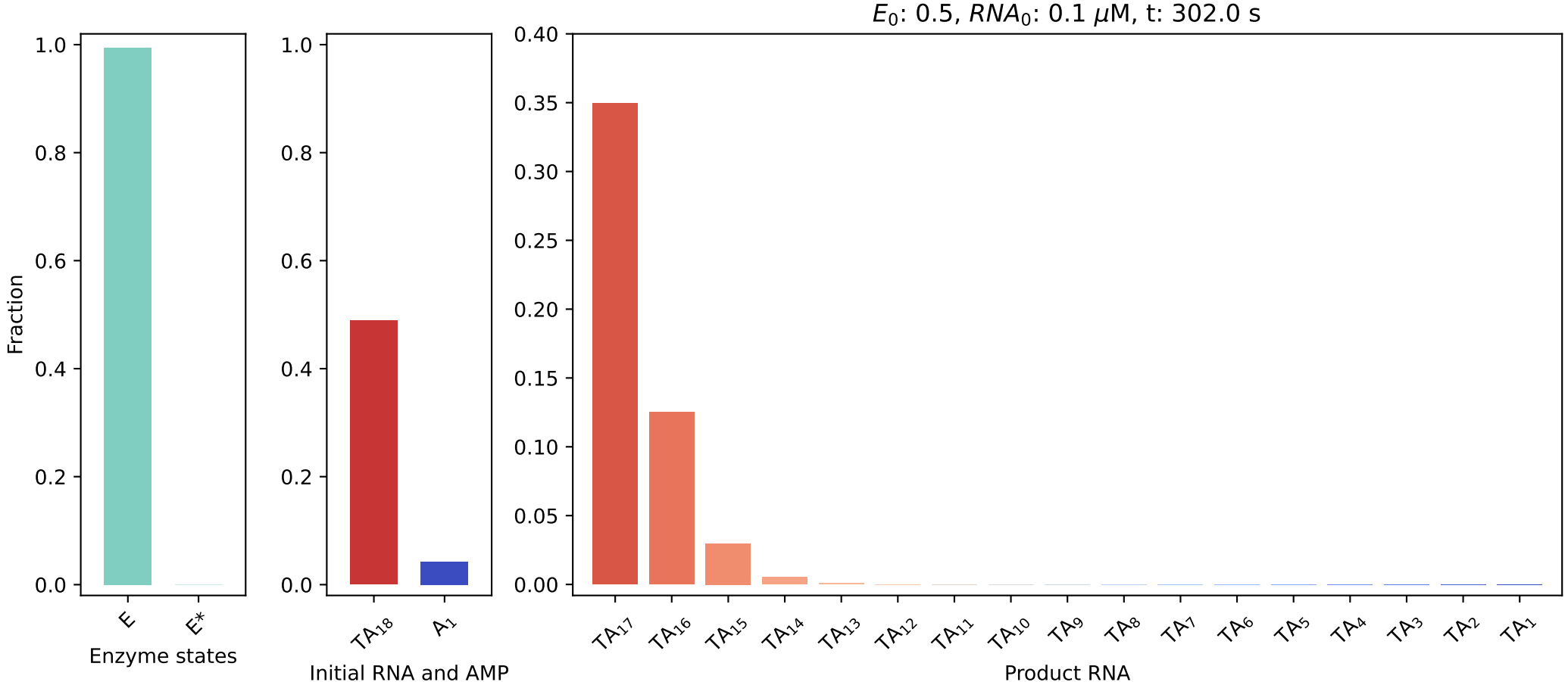
TA_1
Product RNA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E*
Enzyme states
TA18
A1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
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TA17
TA16
TA15
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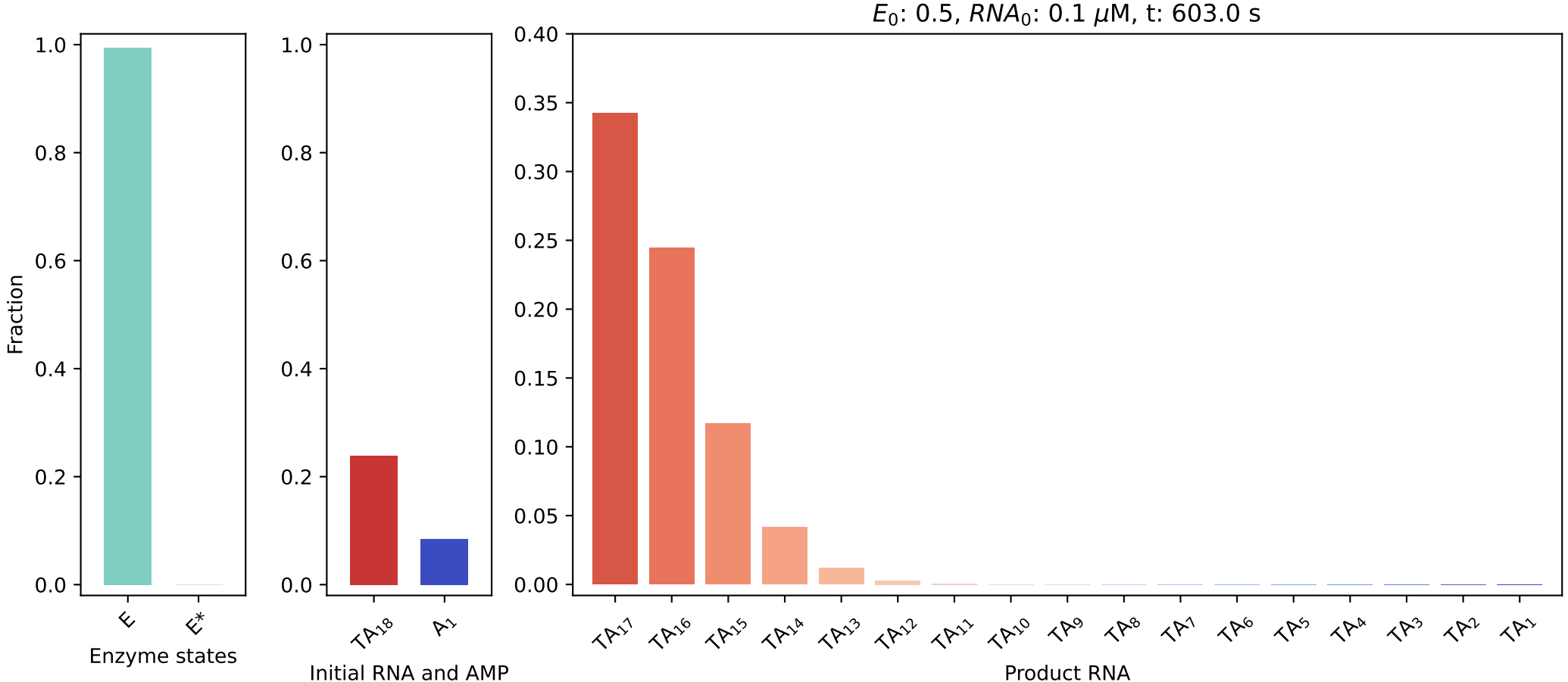
TA3
TA2
TA1
Product RNA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Enzyme states
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Initial RNA and AMP
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0.35
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TA15
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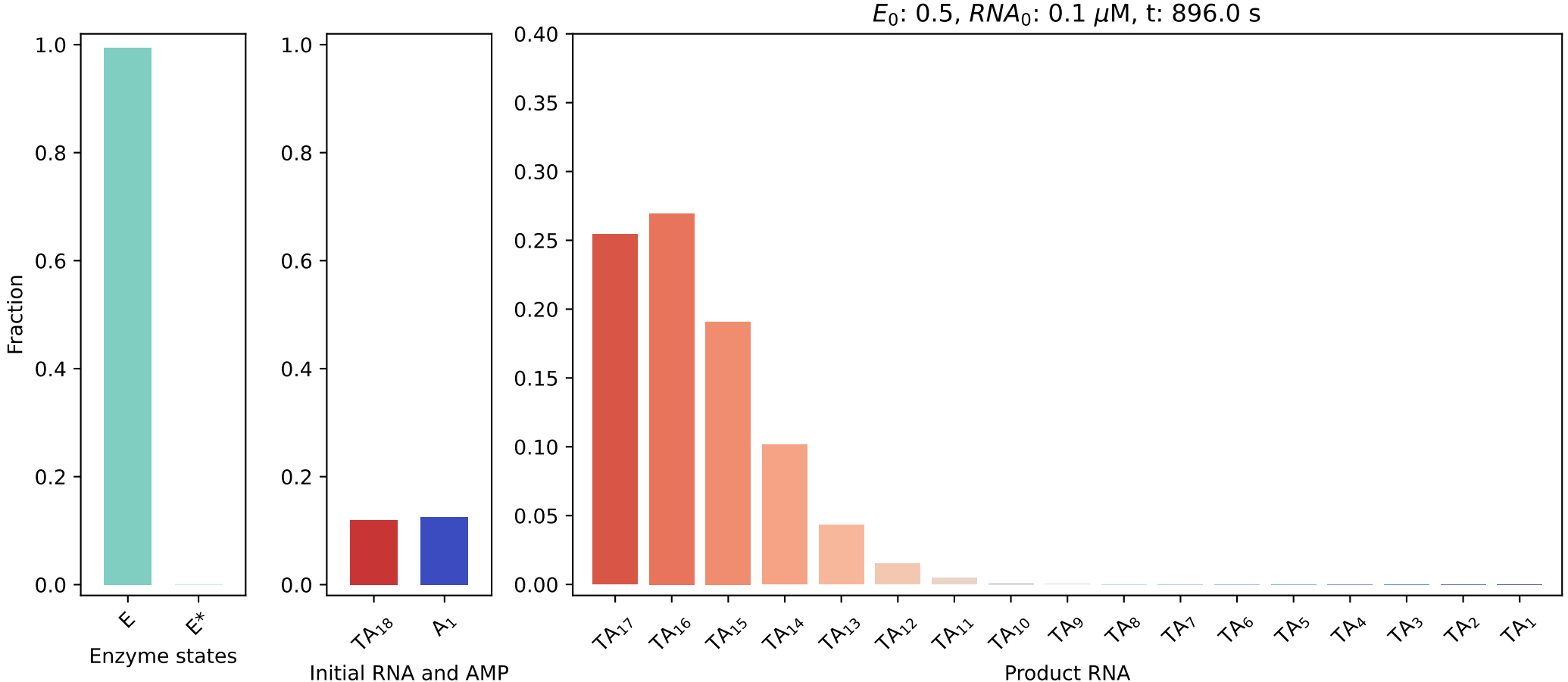
Product RNA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Enzyme states
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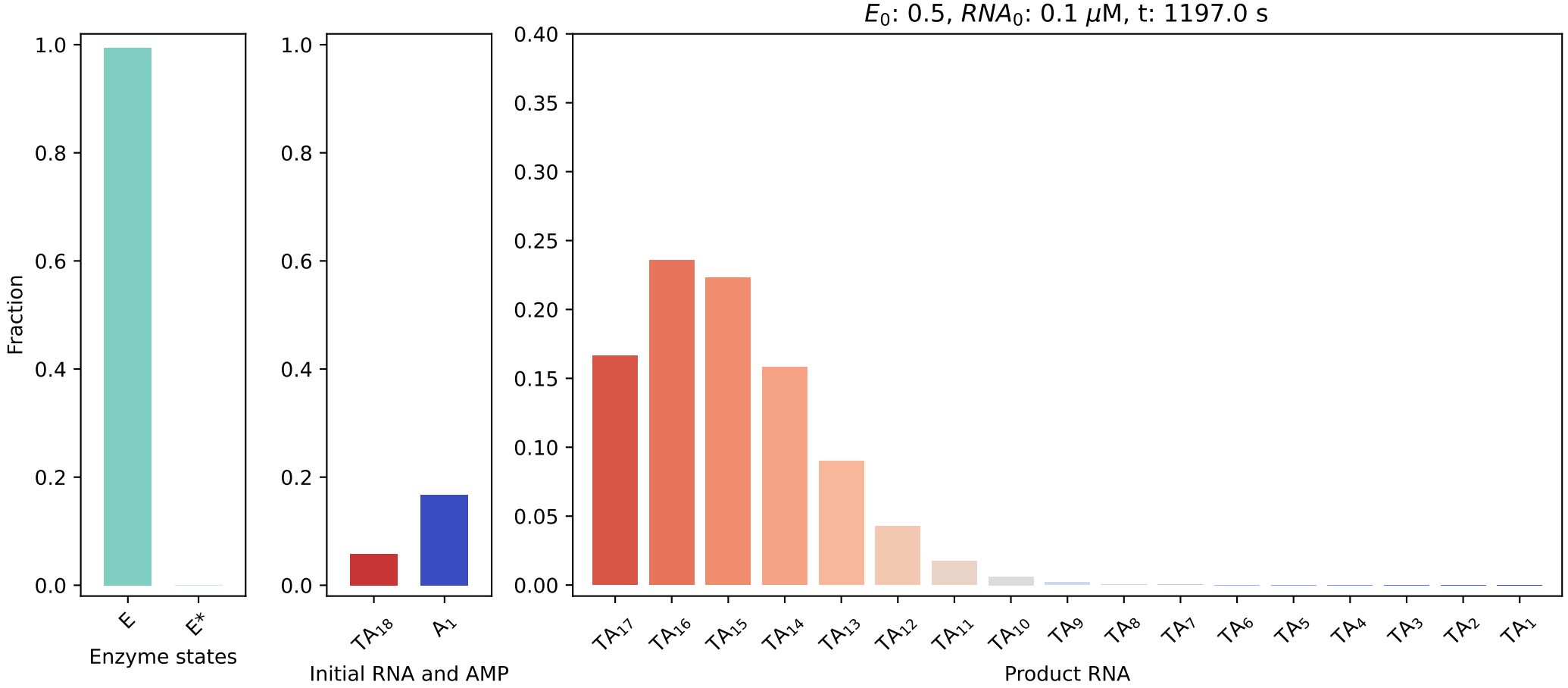
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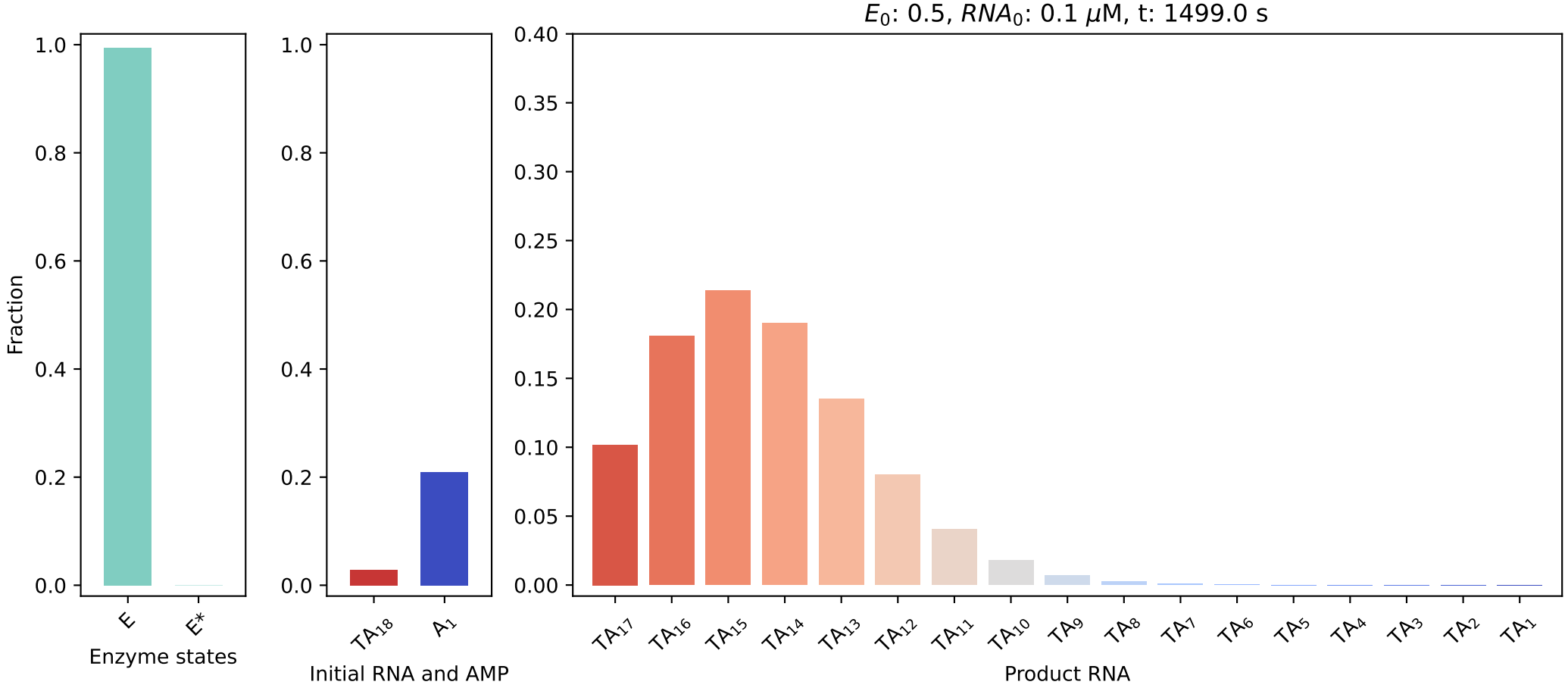
Product RNA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Enzyme states
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A_1
Initial RNA and AMP
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TA_{17}
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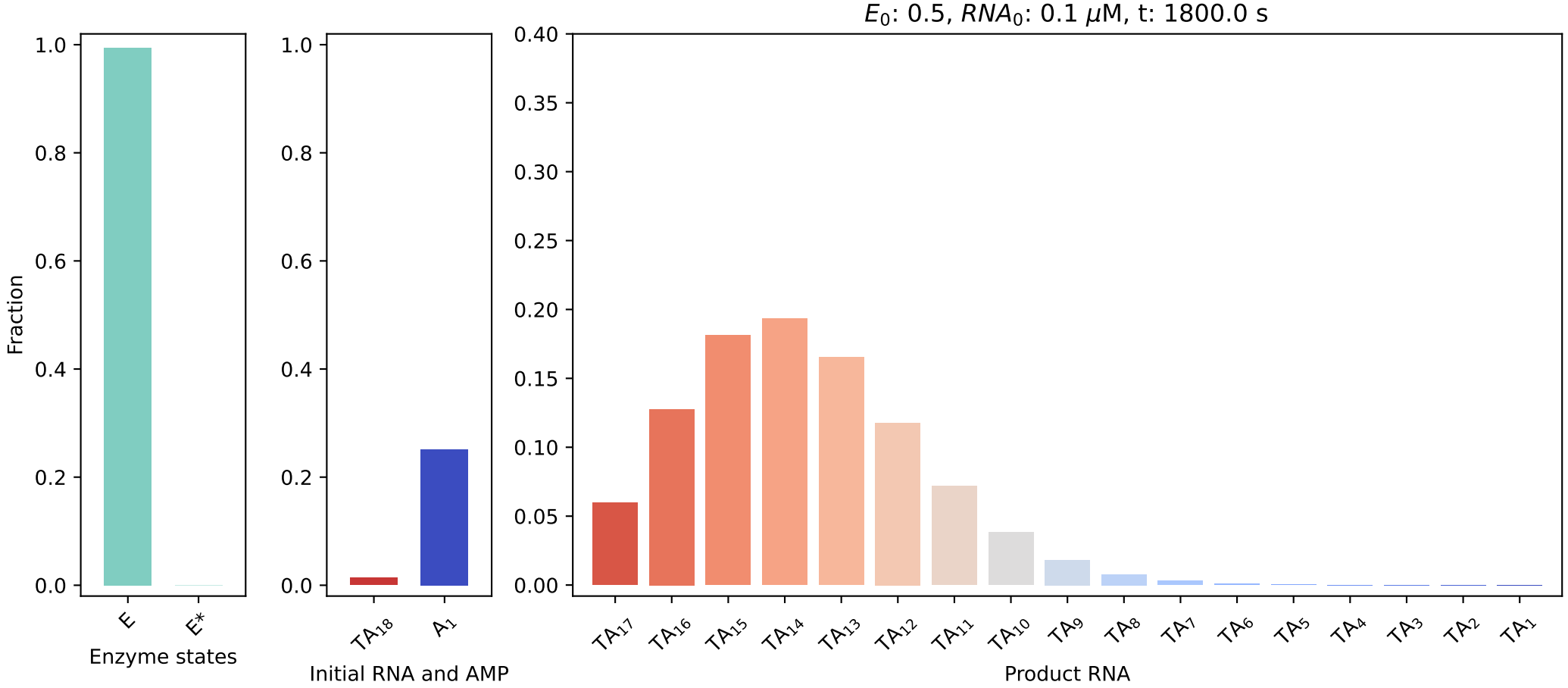
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Initial RNA and AMP
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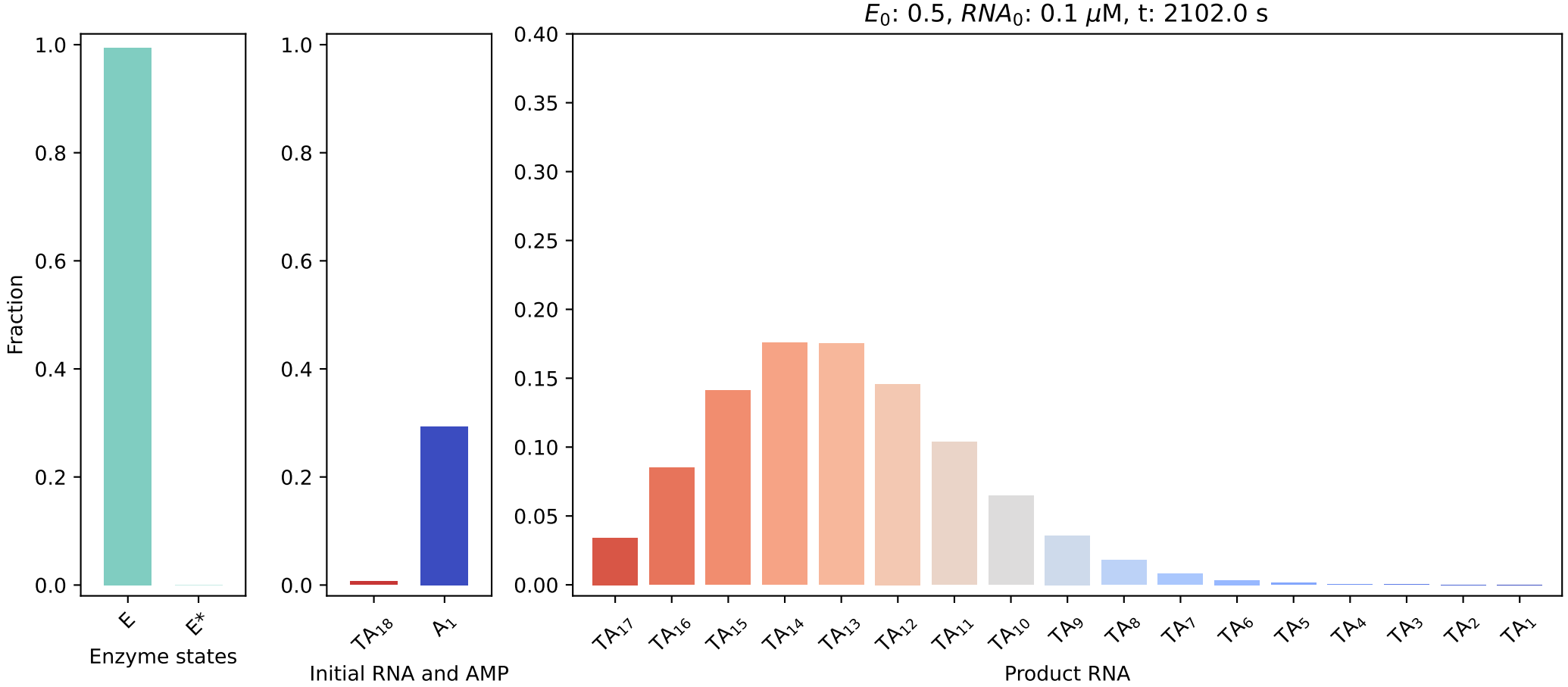
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Enzyme states
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TA_{16}
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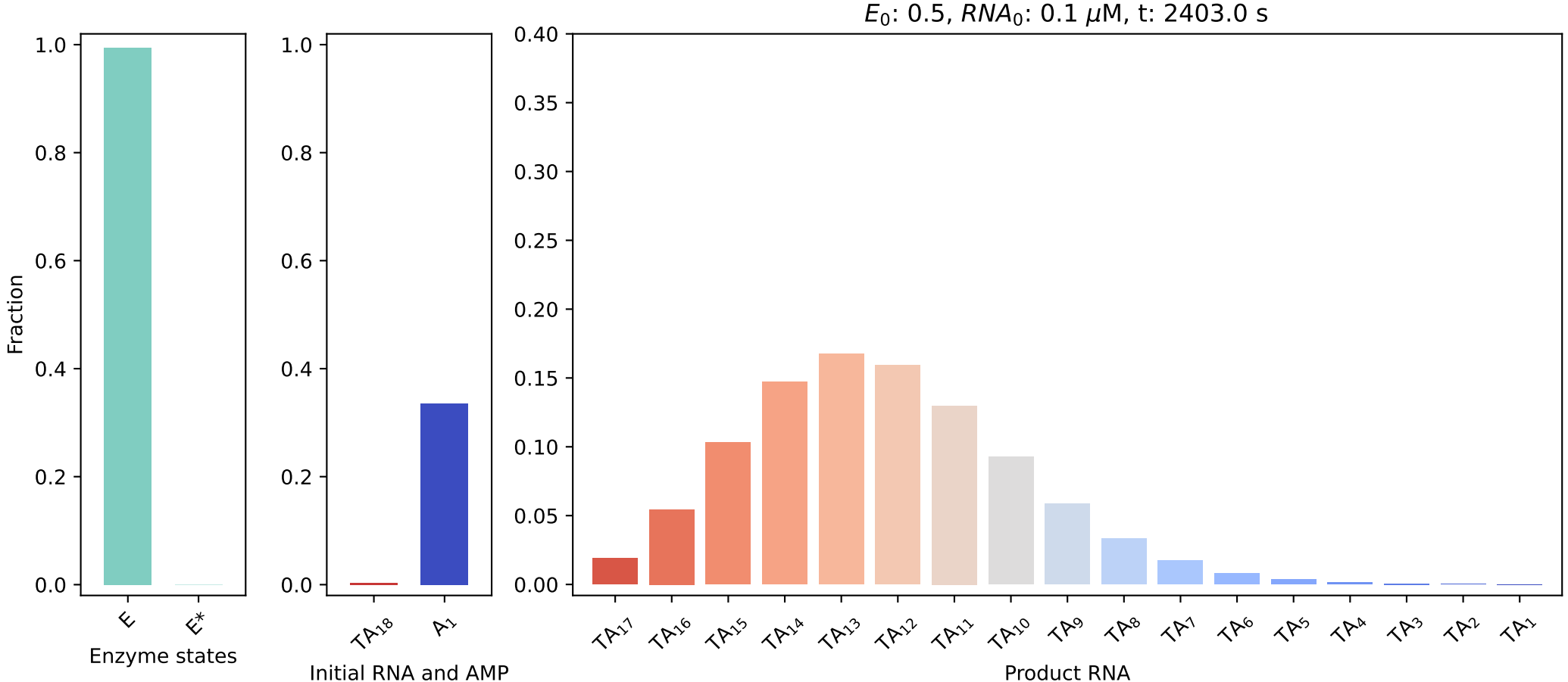
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Enzyme states
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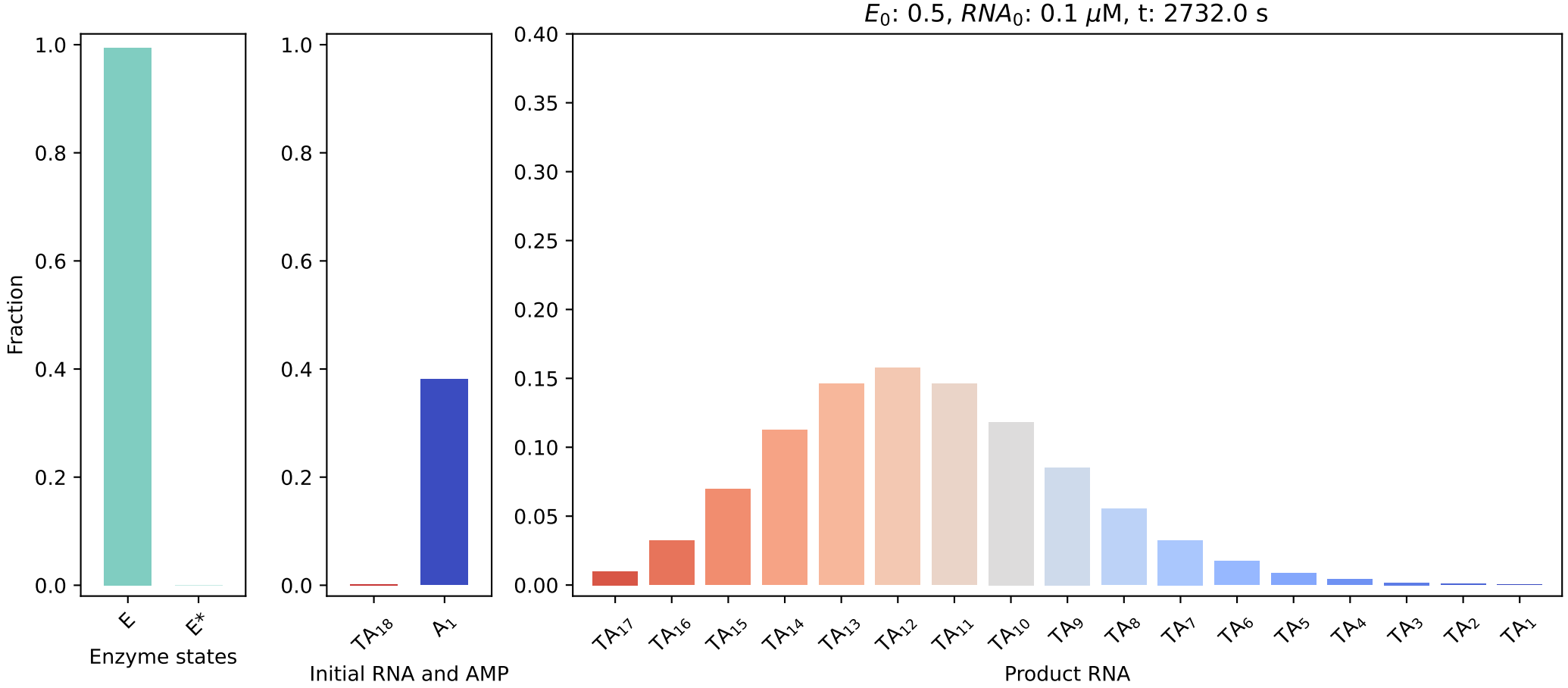
Product RNA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Enzyme states
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Initial RNA and AMP
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TA_{16}
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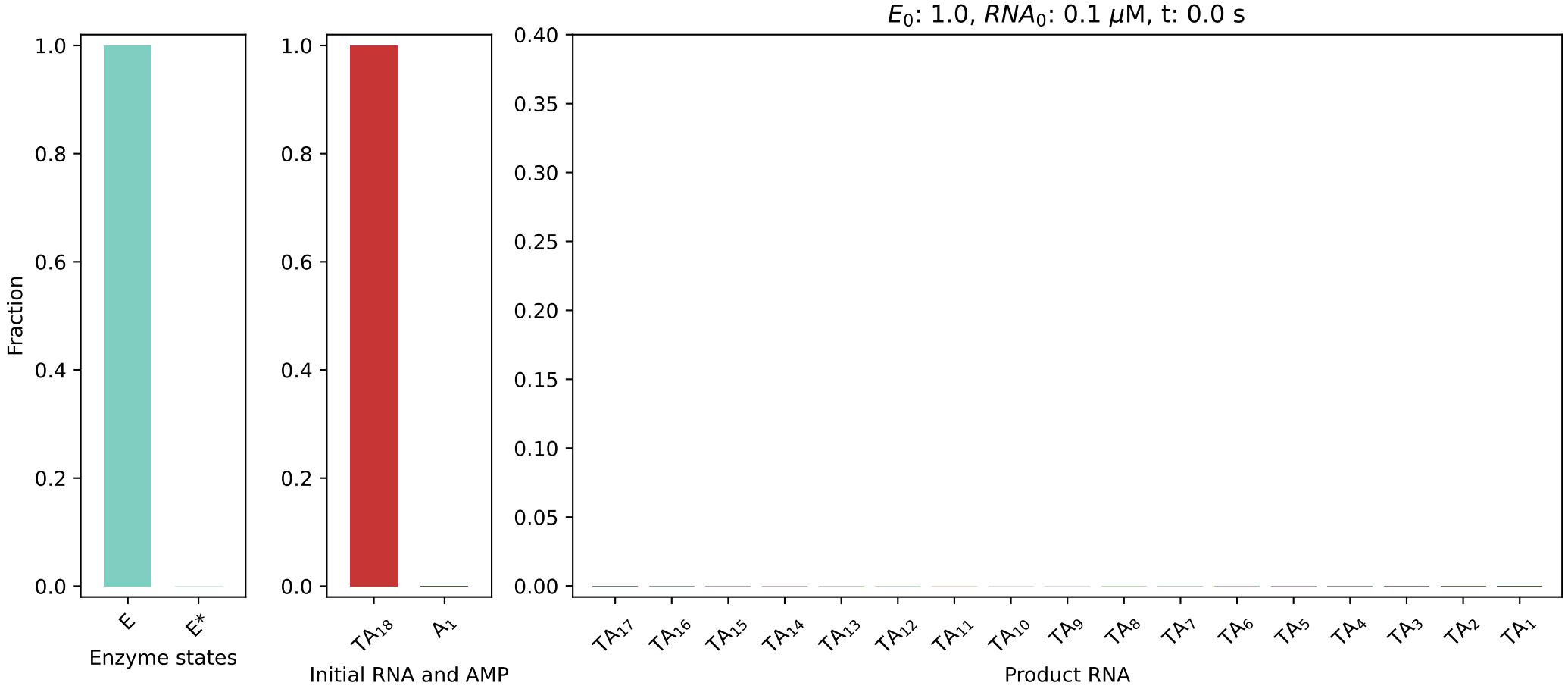
Product RNA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Enzyme states
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Initial RNA and AMP
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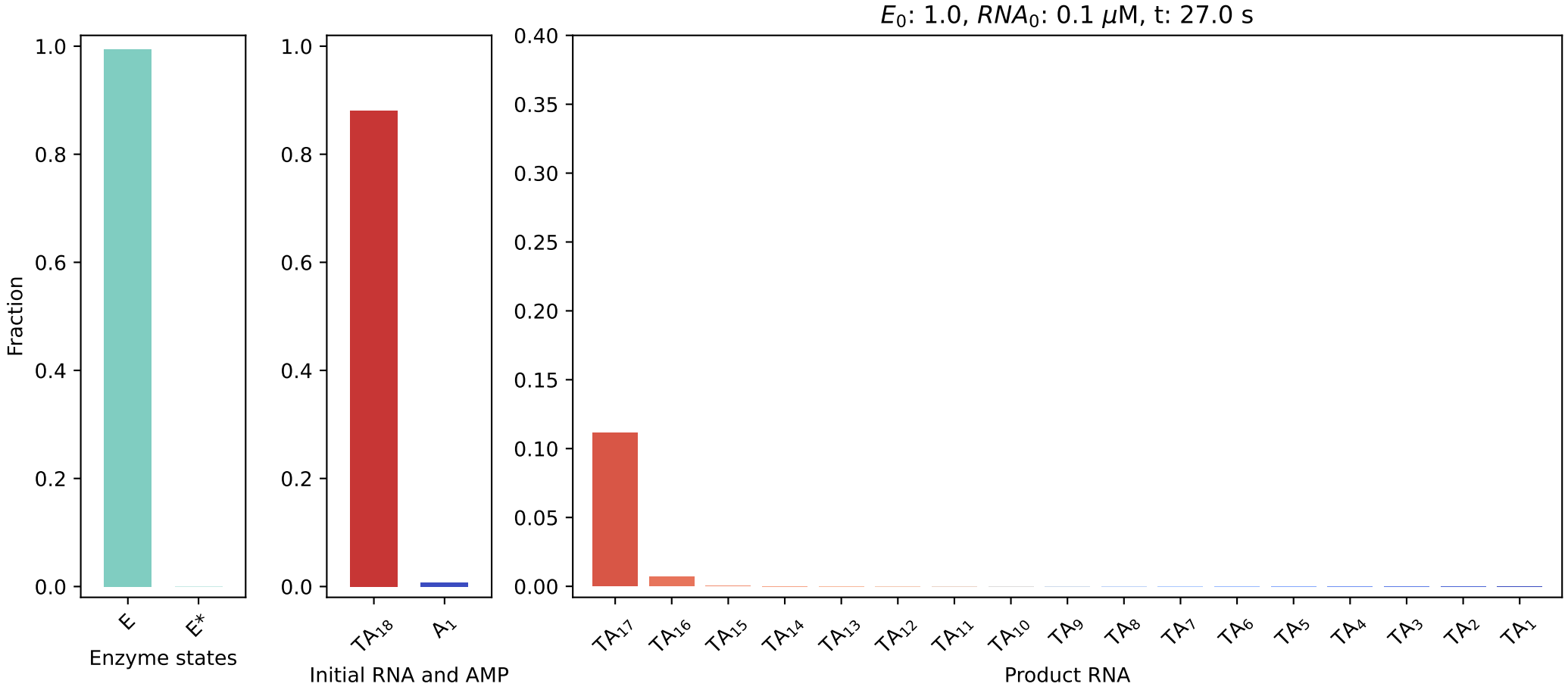
Product RNA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A_1
Initial RNA and AMP
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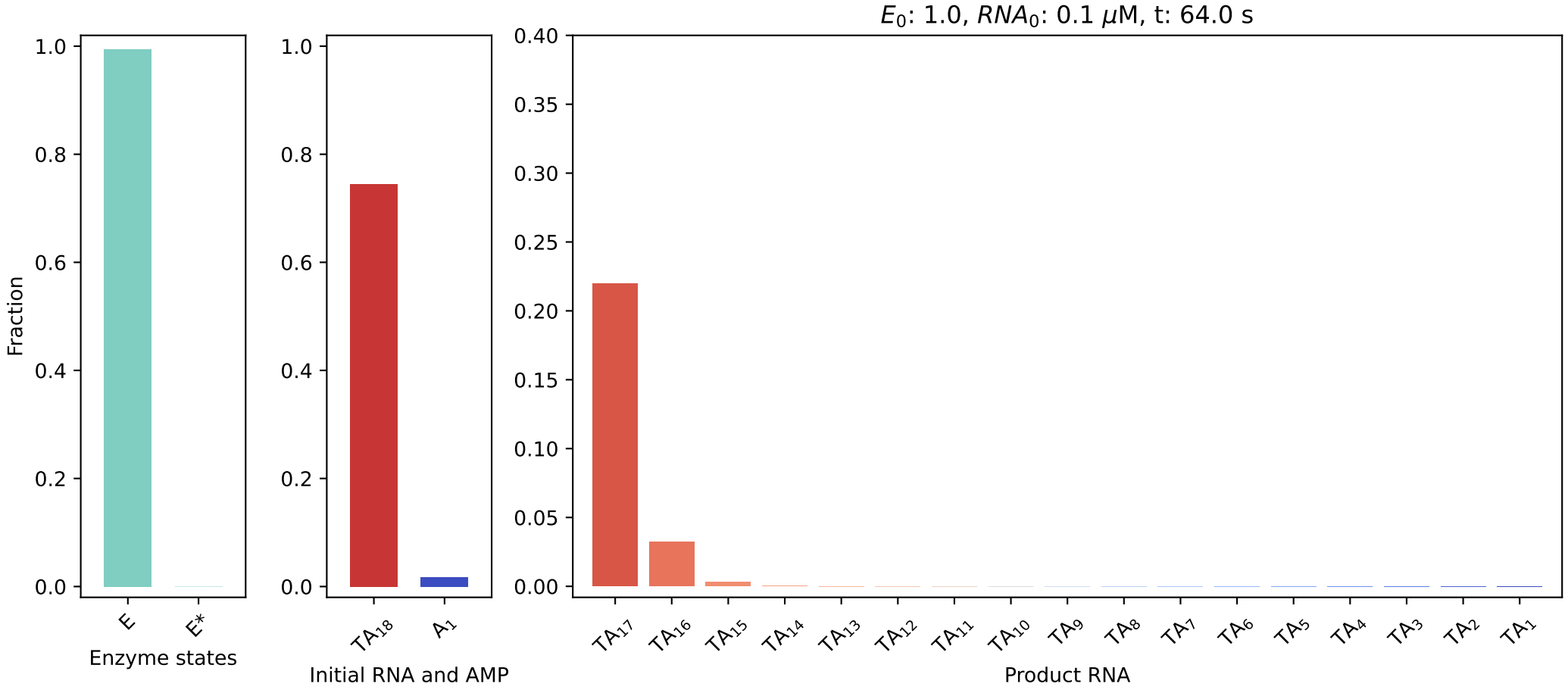
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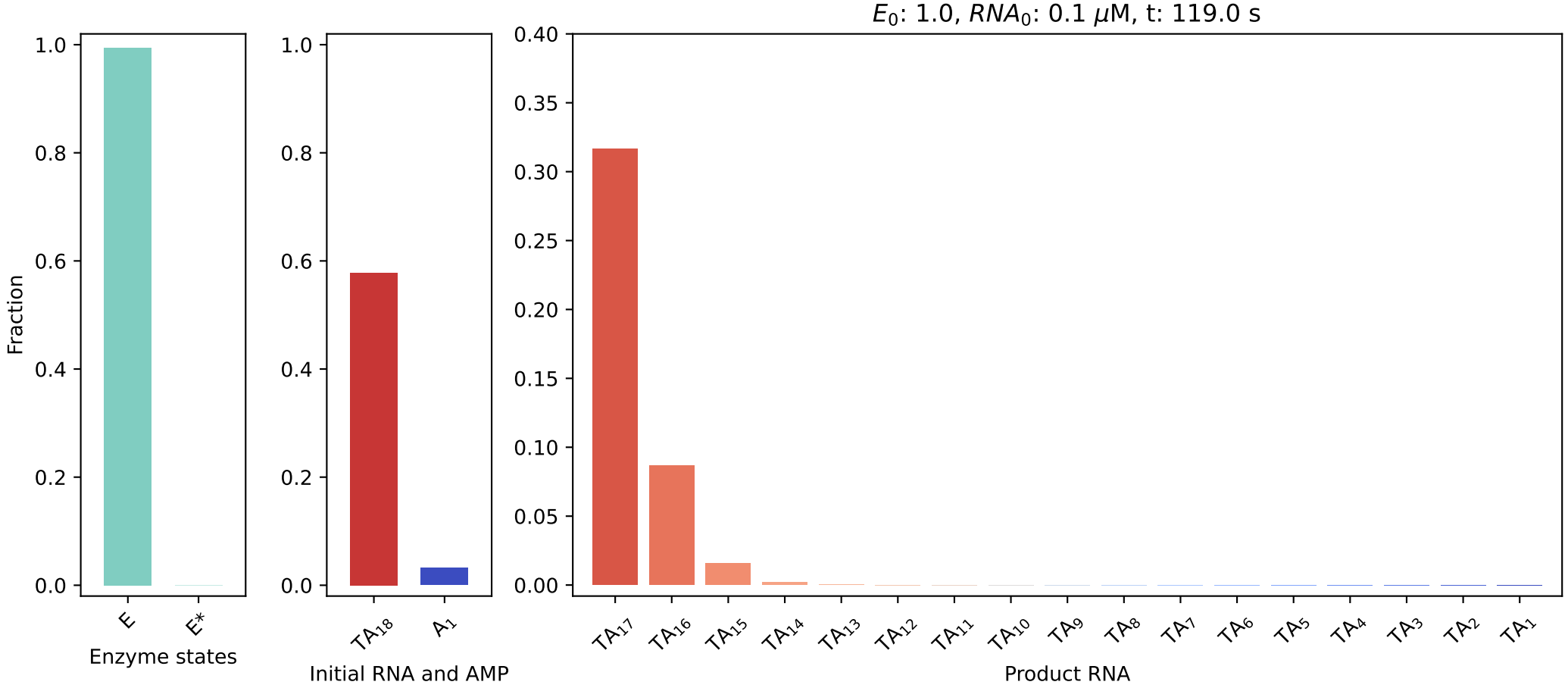
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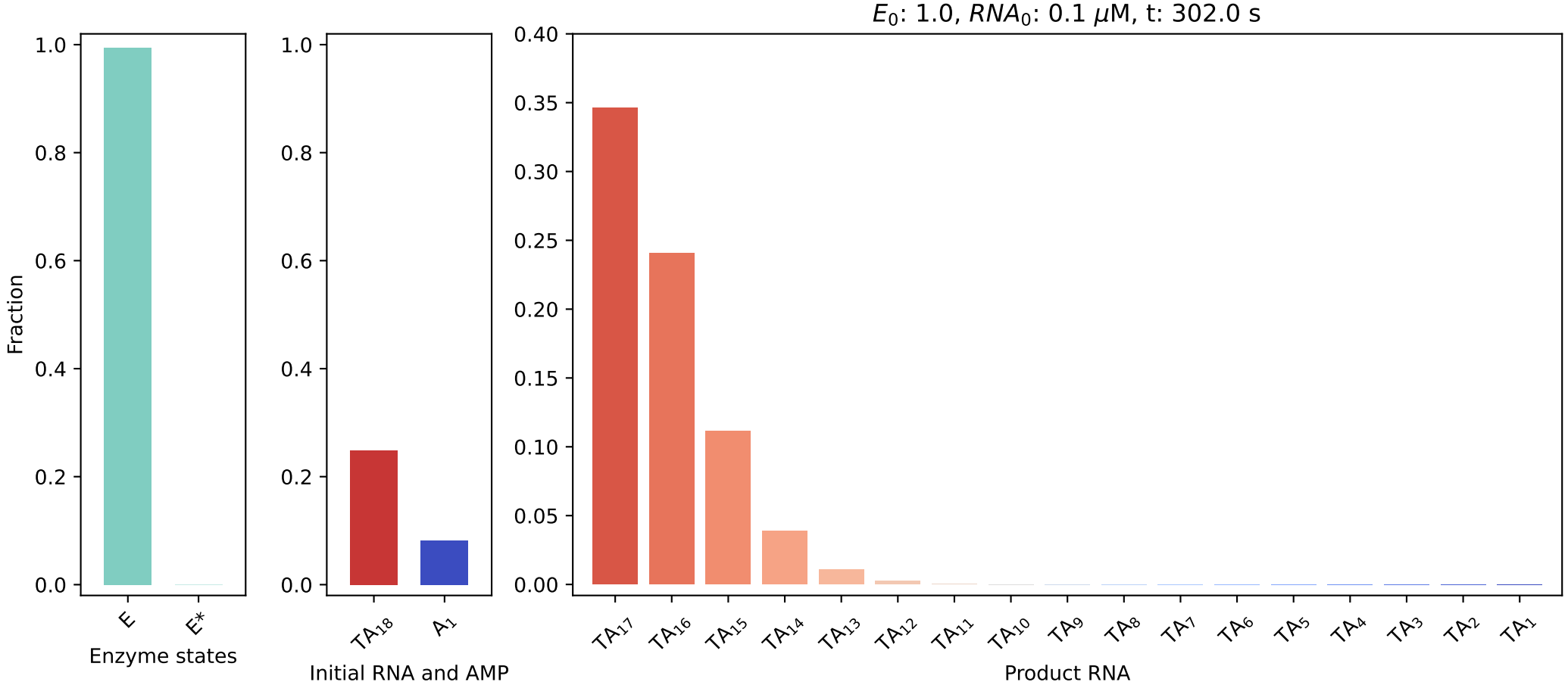
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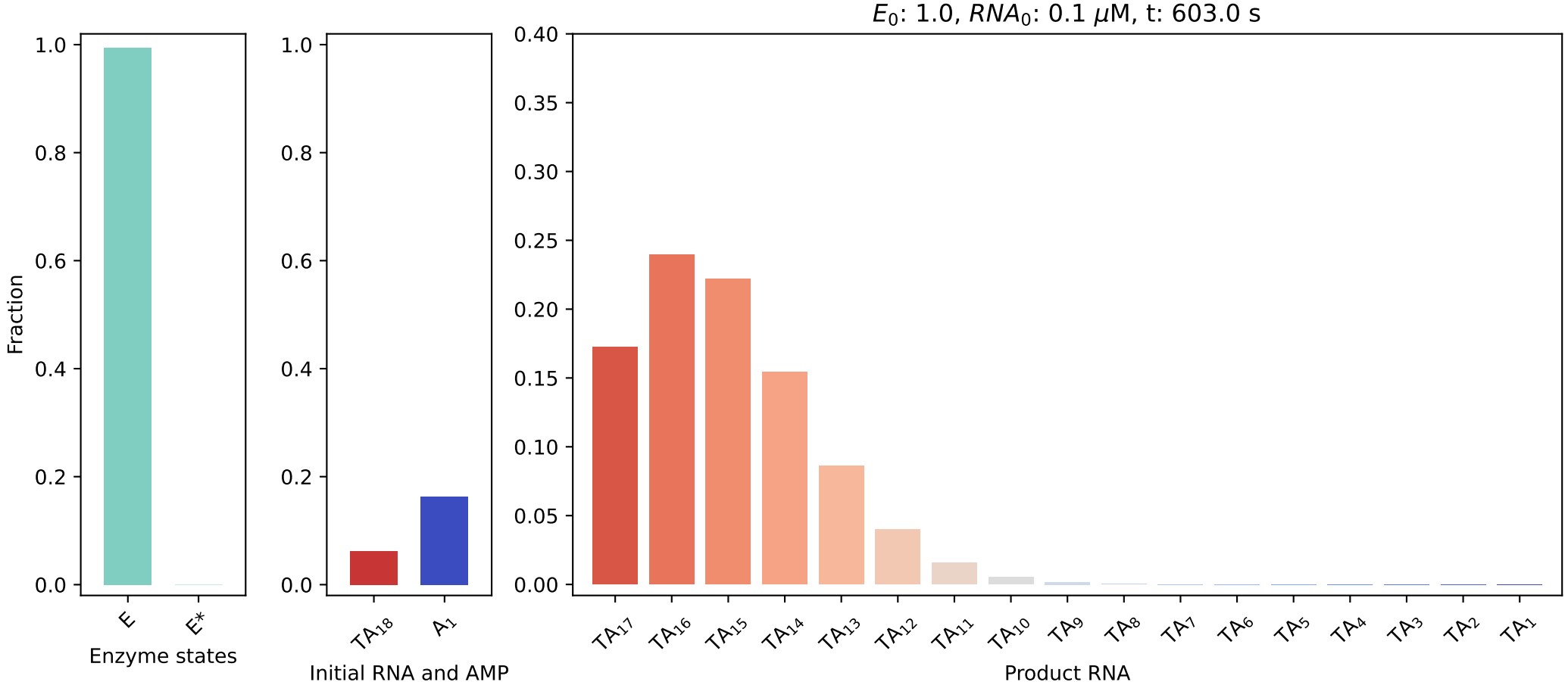
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Enzyme states
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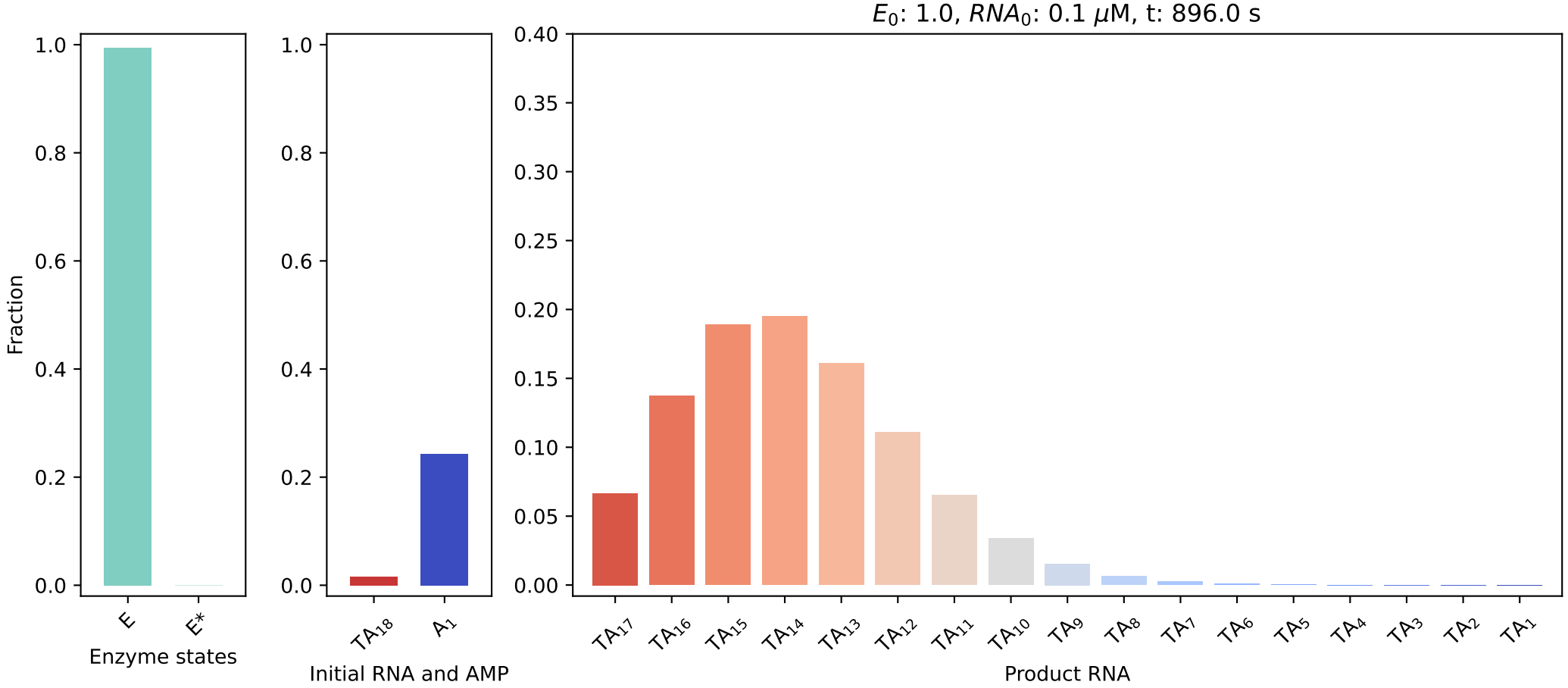
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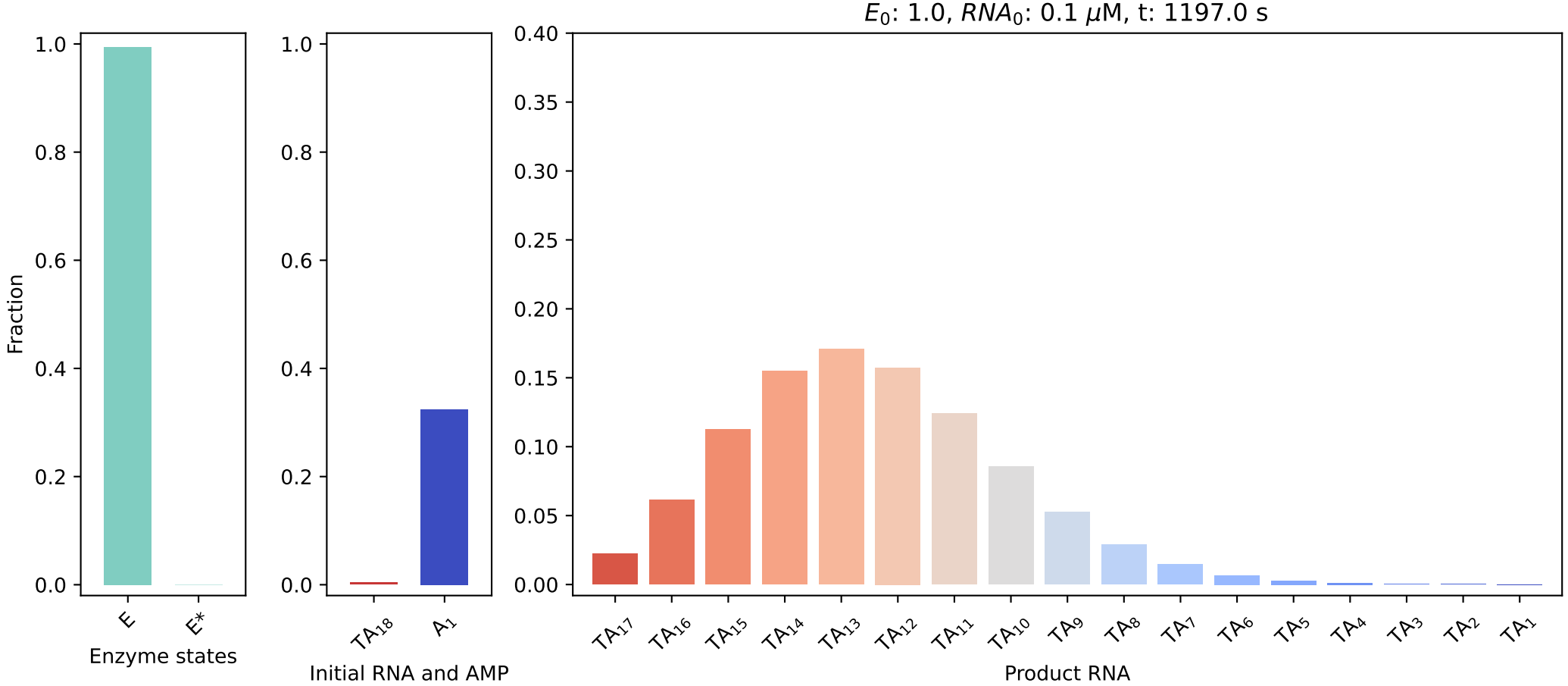
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Enzyme states
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A_1
Initial RNA and AMP
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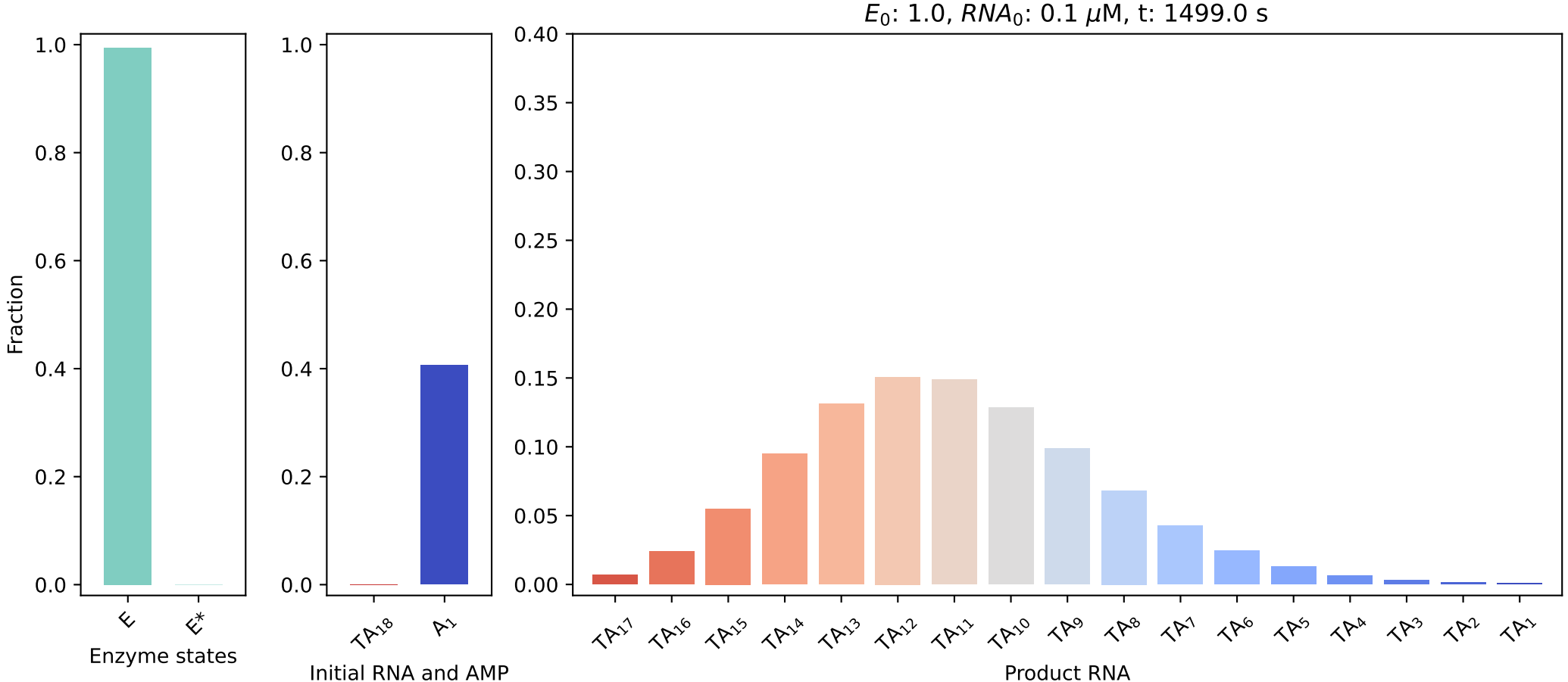
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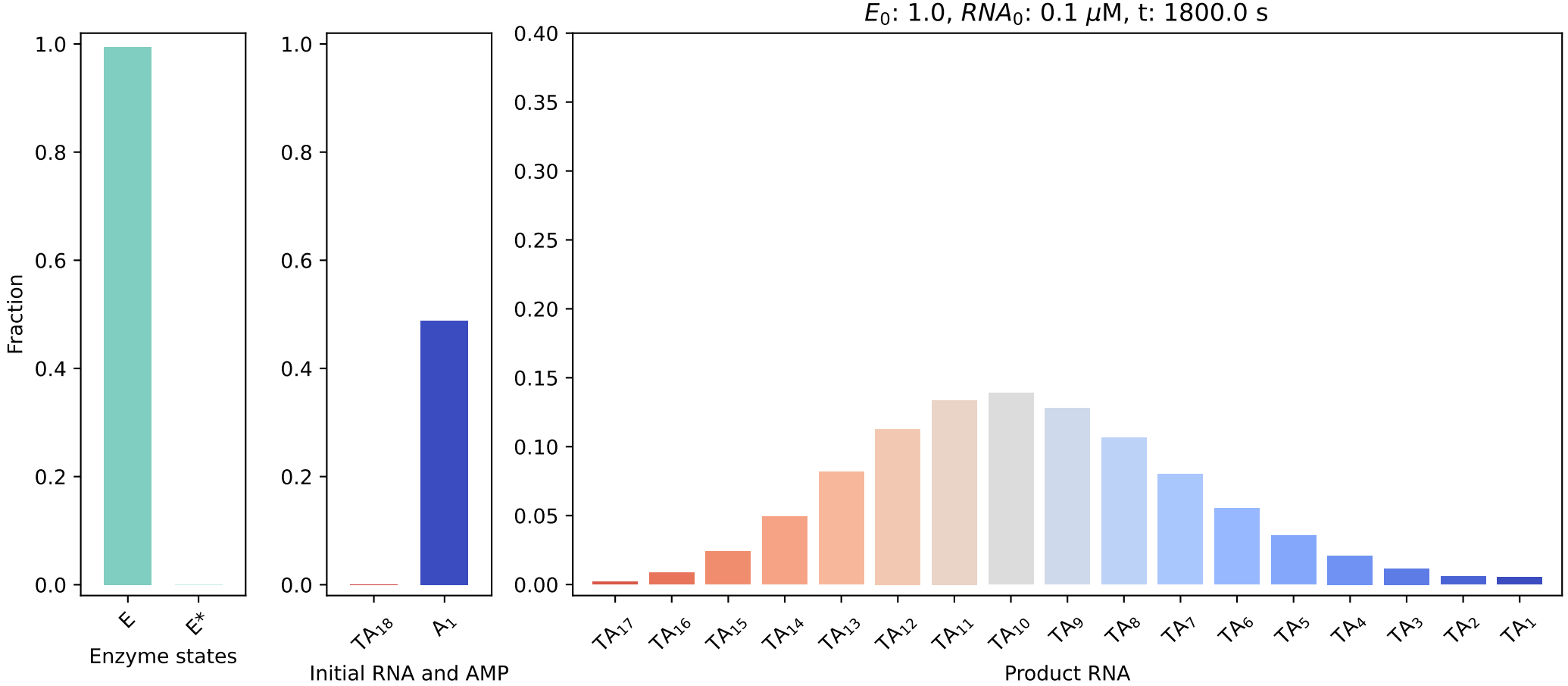
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Initial RNA and AMP
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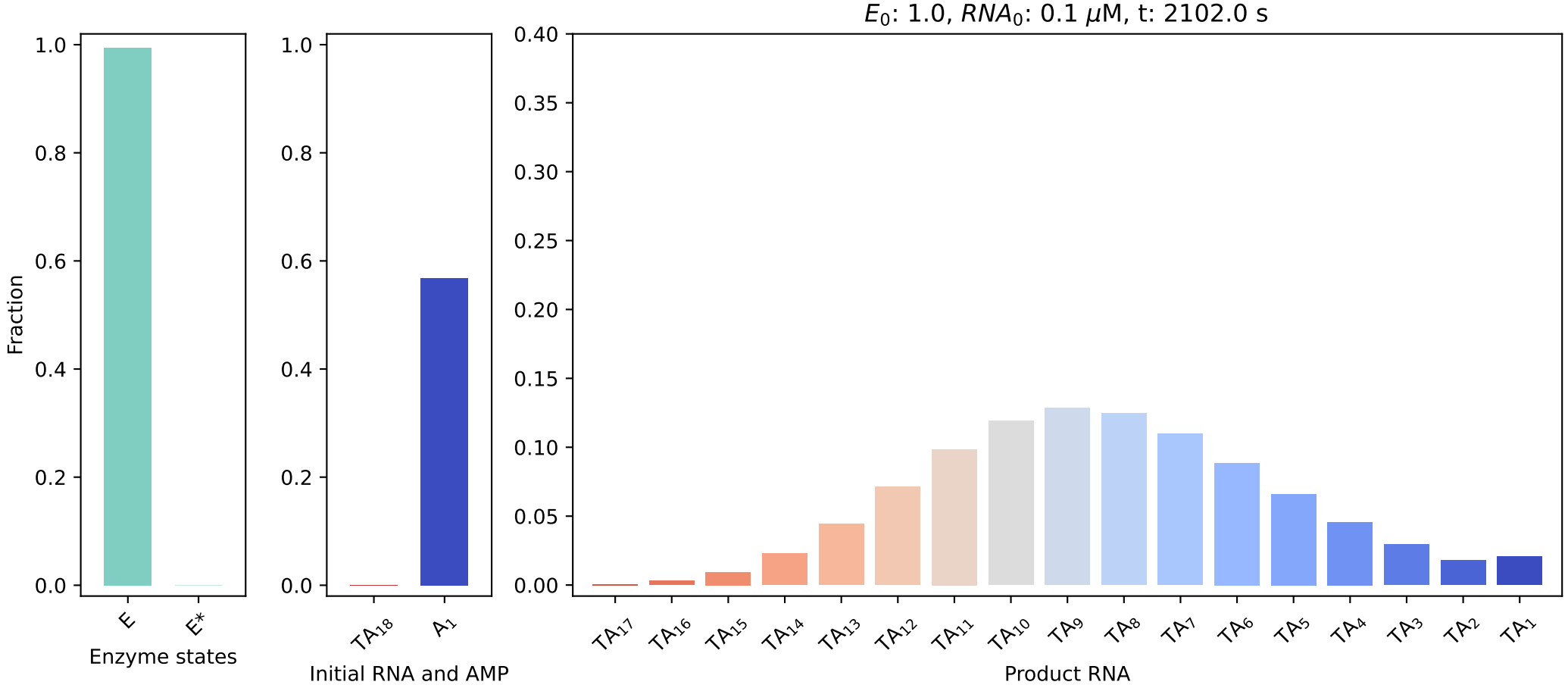
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Enzyme states
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A_1
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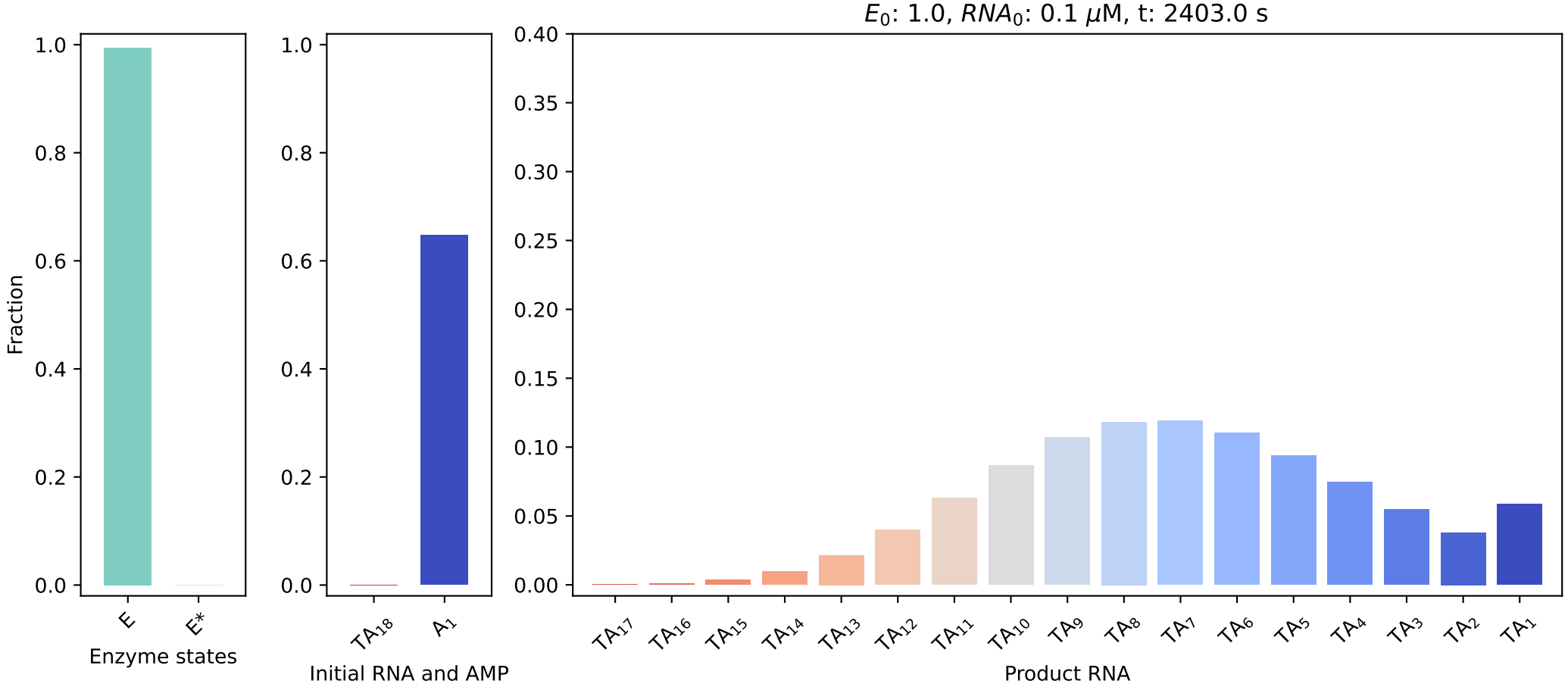
Product RNA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E*
Enzyme states
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A1
Initial RNA and AMP
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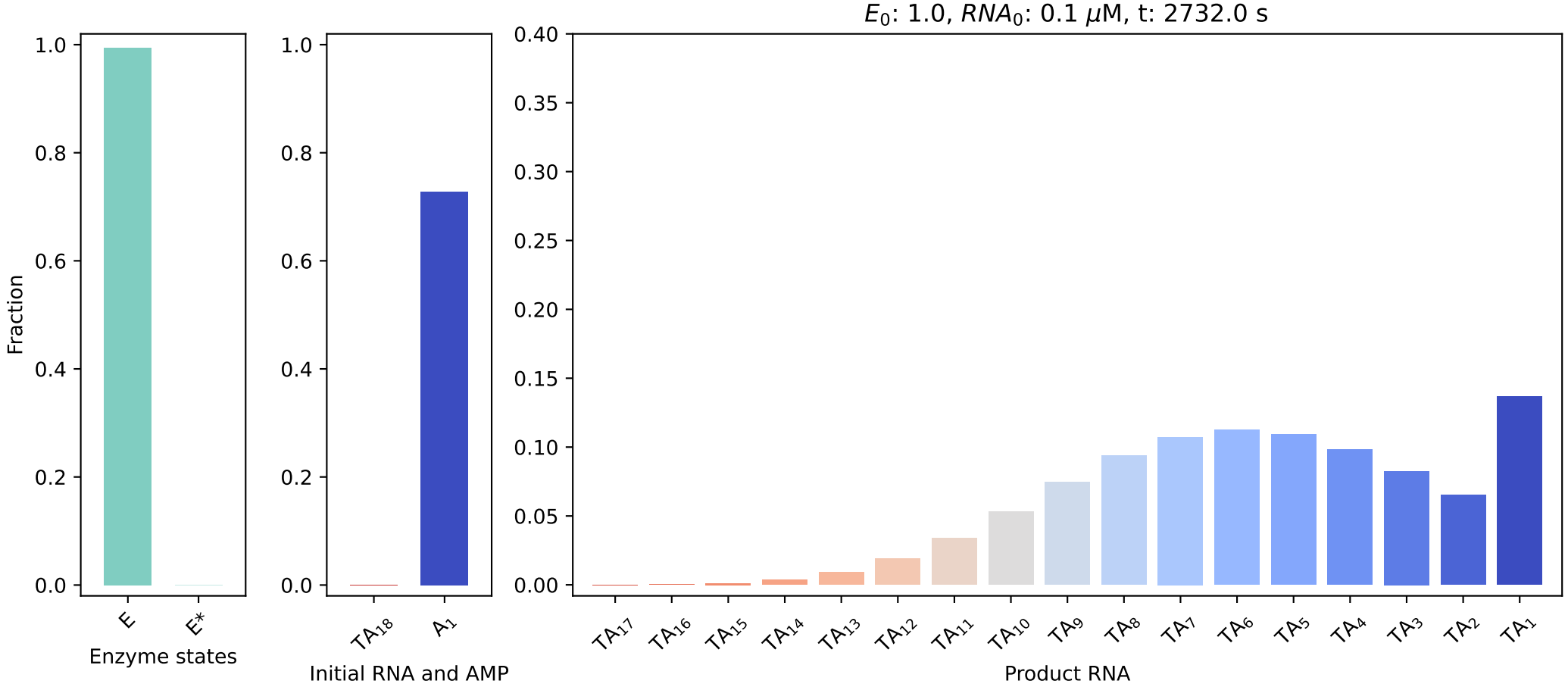
Product RNA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E*
Enzyme states
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A1
Initial RNA and AMP
0.40
0.35
0.30
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TA17
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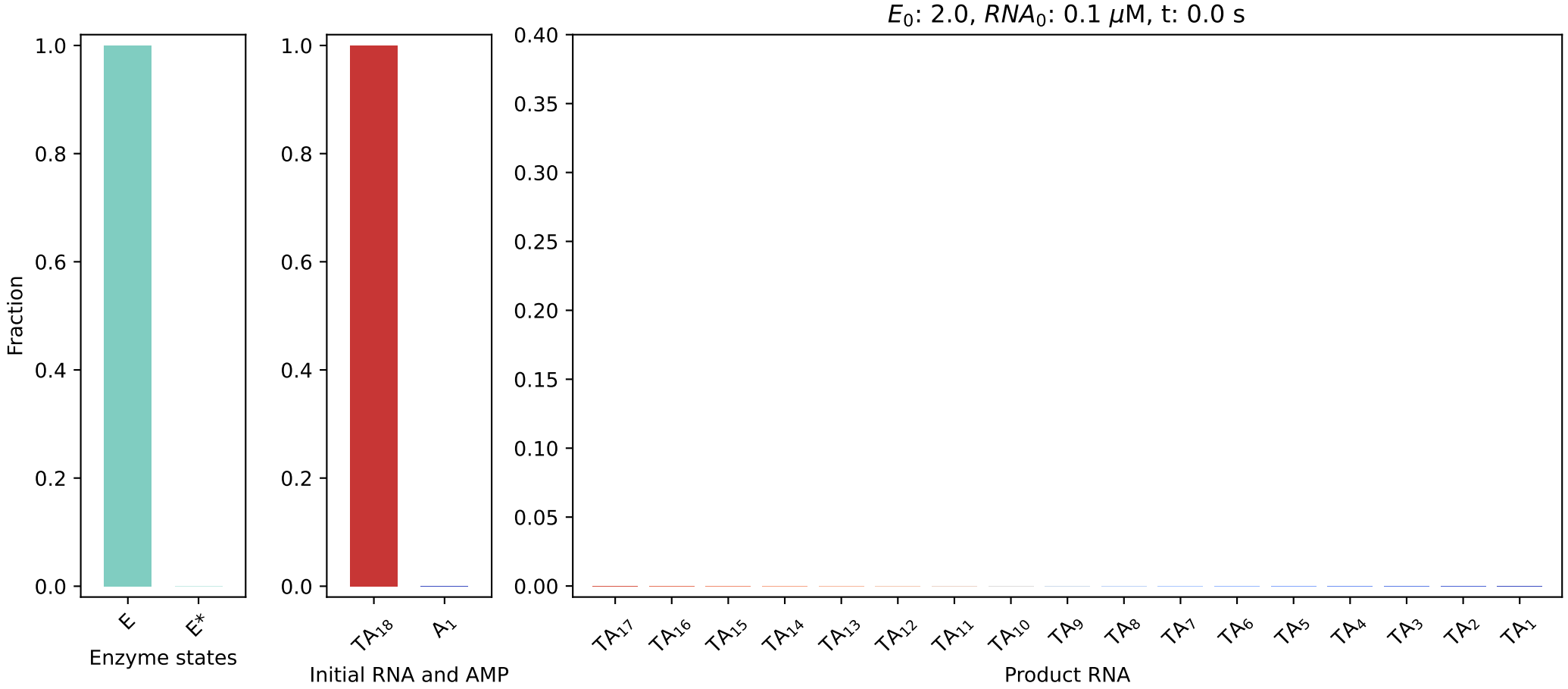
Product RNA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E
E*
Enzyme states
TA18
A1
Initial RNA and AMP
0.40
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0.20
0.15
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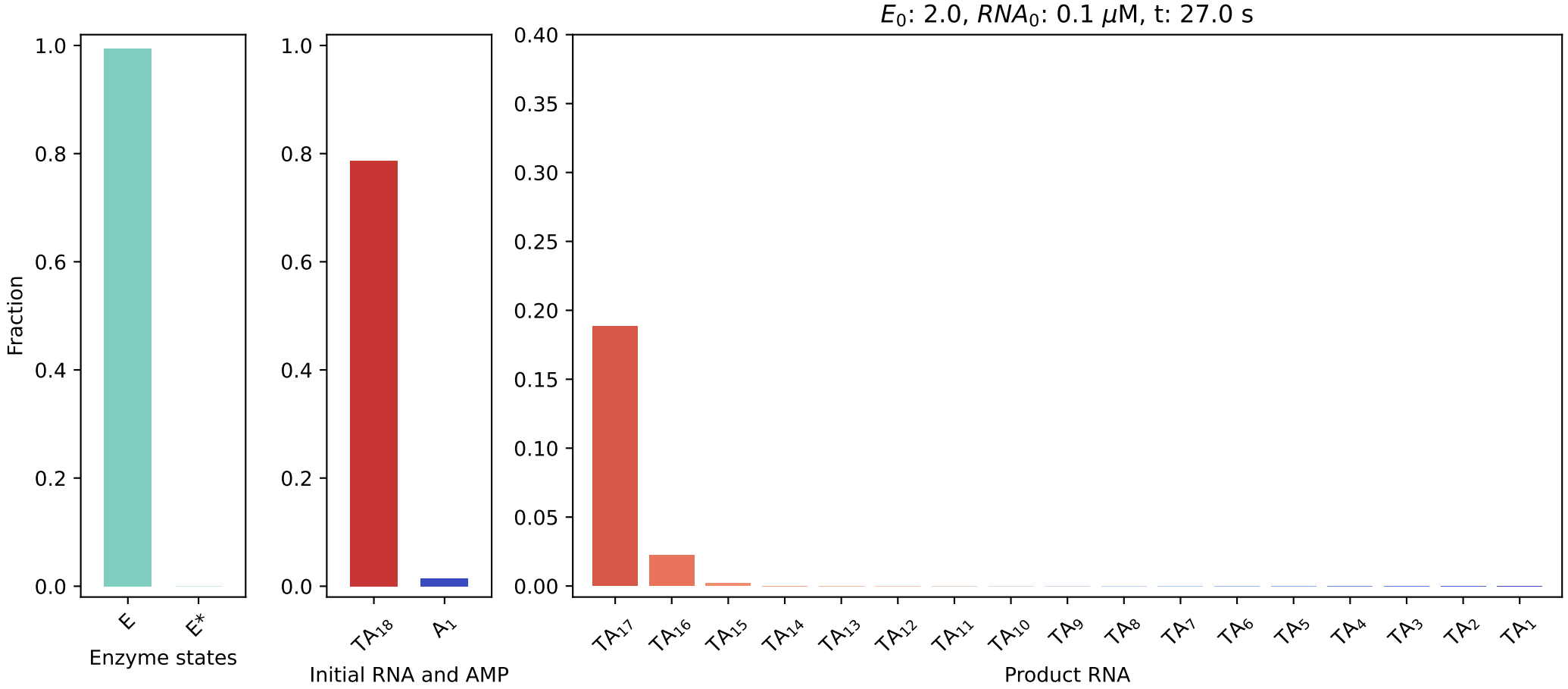
Product RNA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Enzyme states
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Initial RNA and AMP
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TA17
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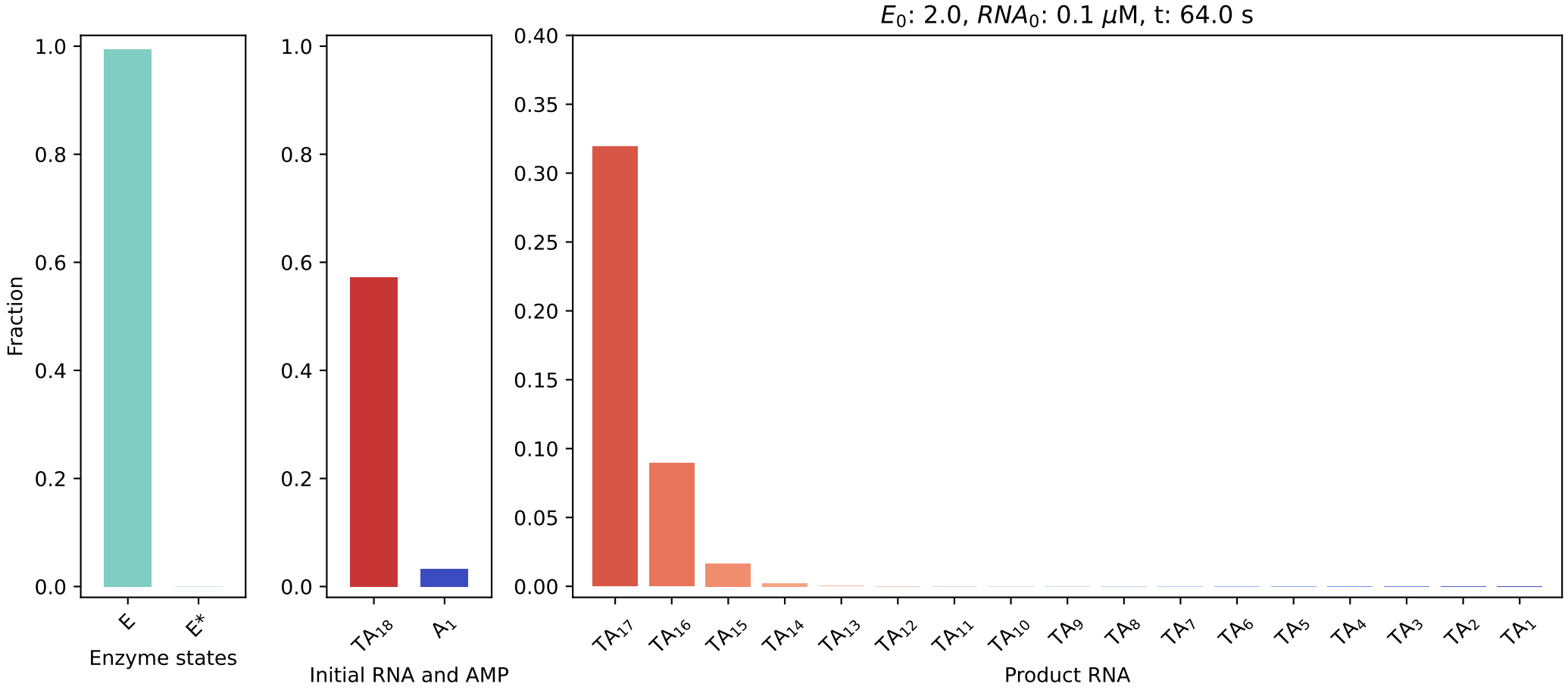
Product RNA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Enzyme states
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Initial RNA and AMP
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TA17
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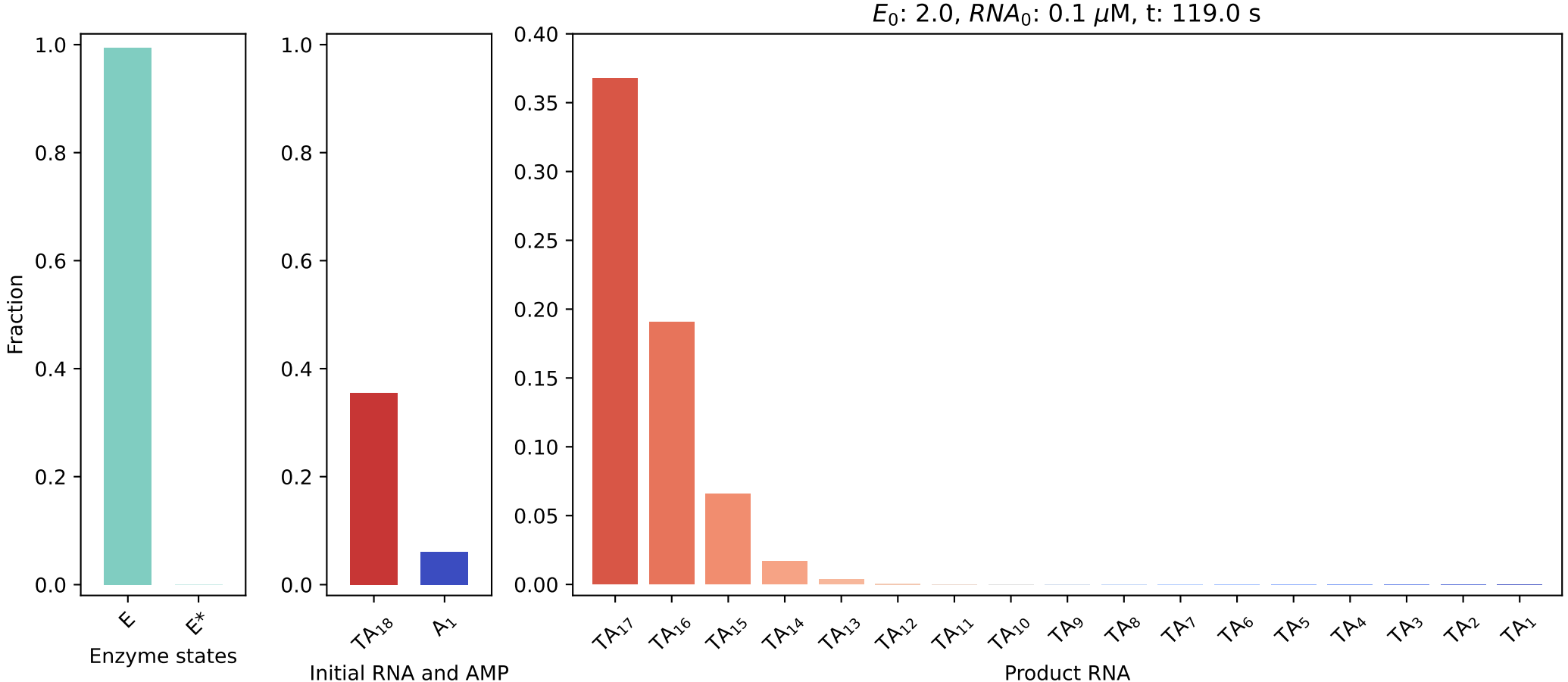
Product RNA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Enzyme states
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0.2
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A_1
Initial RNA and AMP
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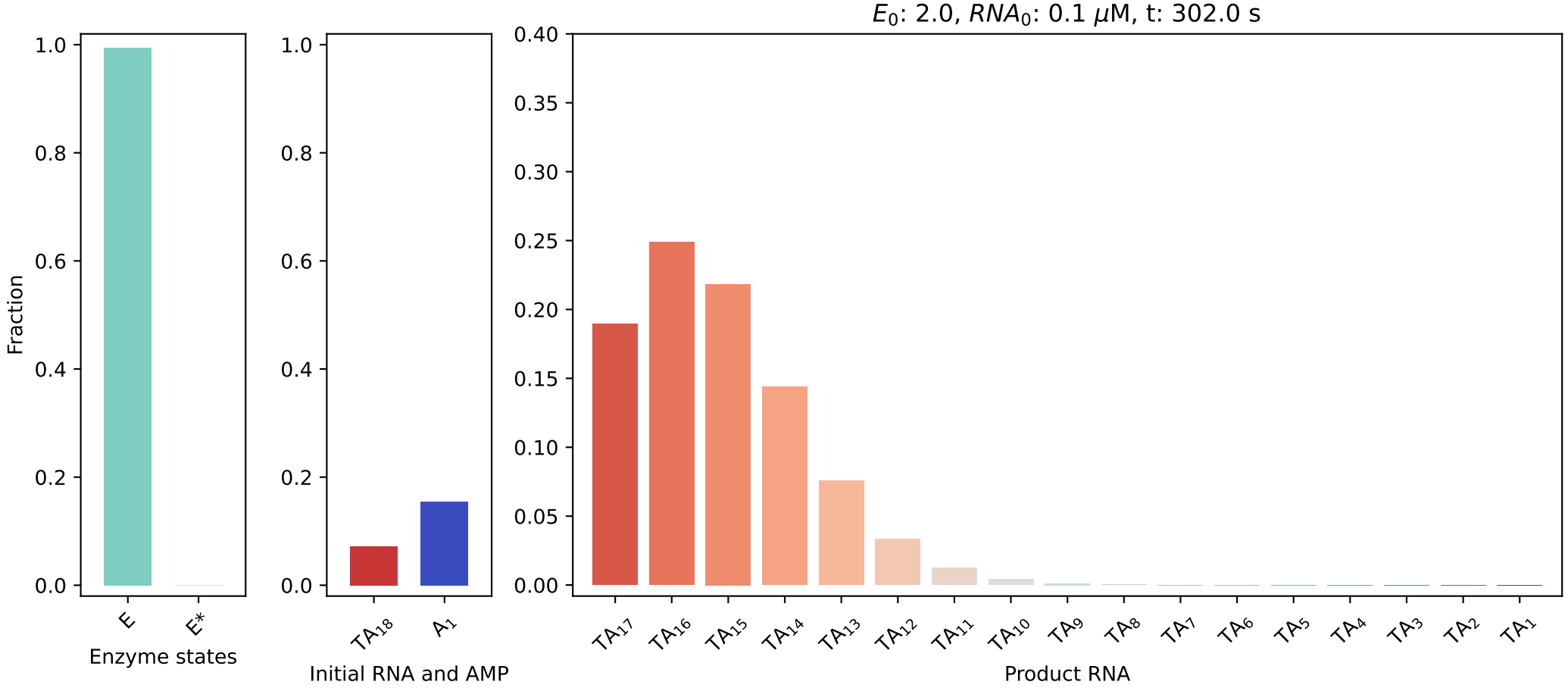
Product RNA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E*
Enzyme states
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Initial RNA and AMP
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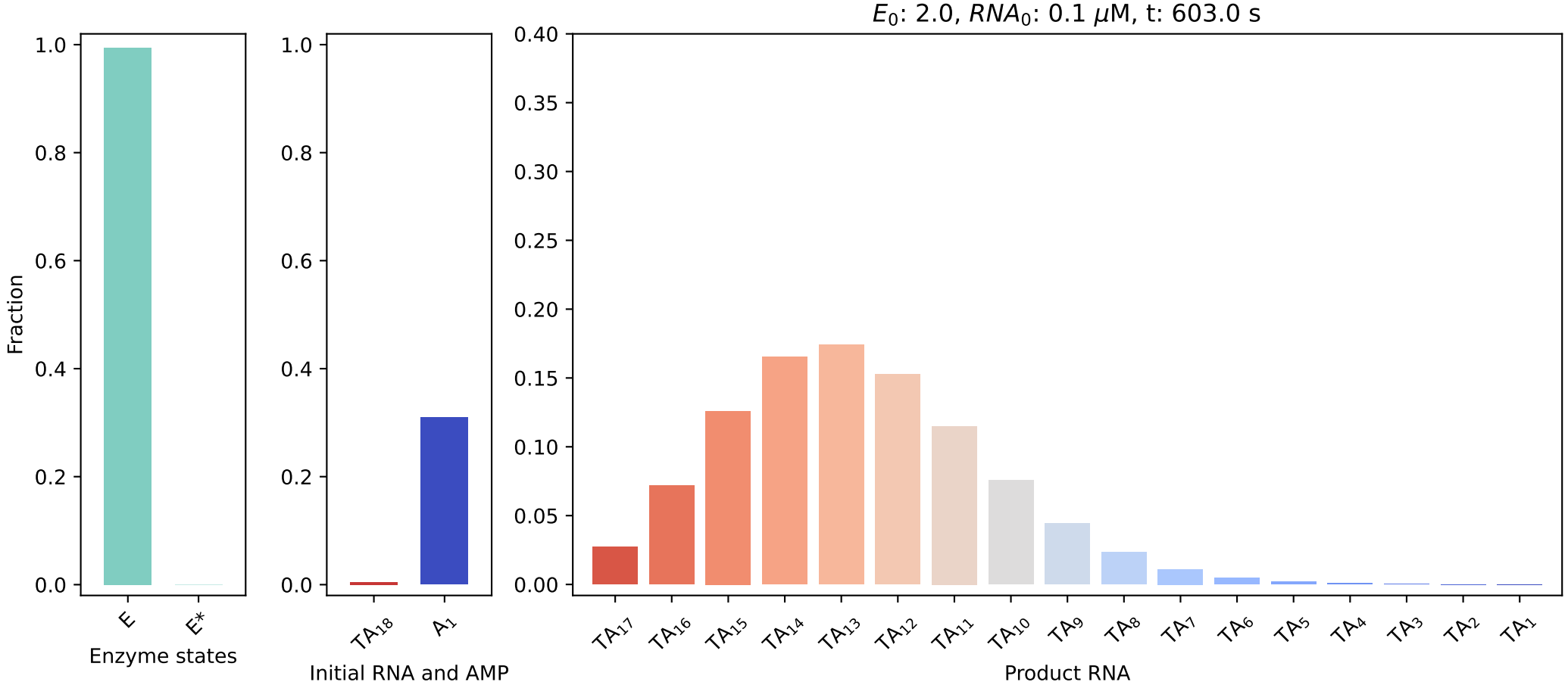
TA1
Product RNA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Enzyme states
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A1
Initial RNA and AMP
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TA2
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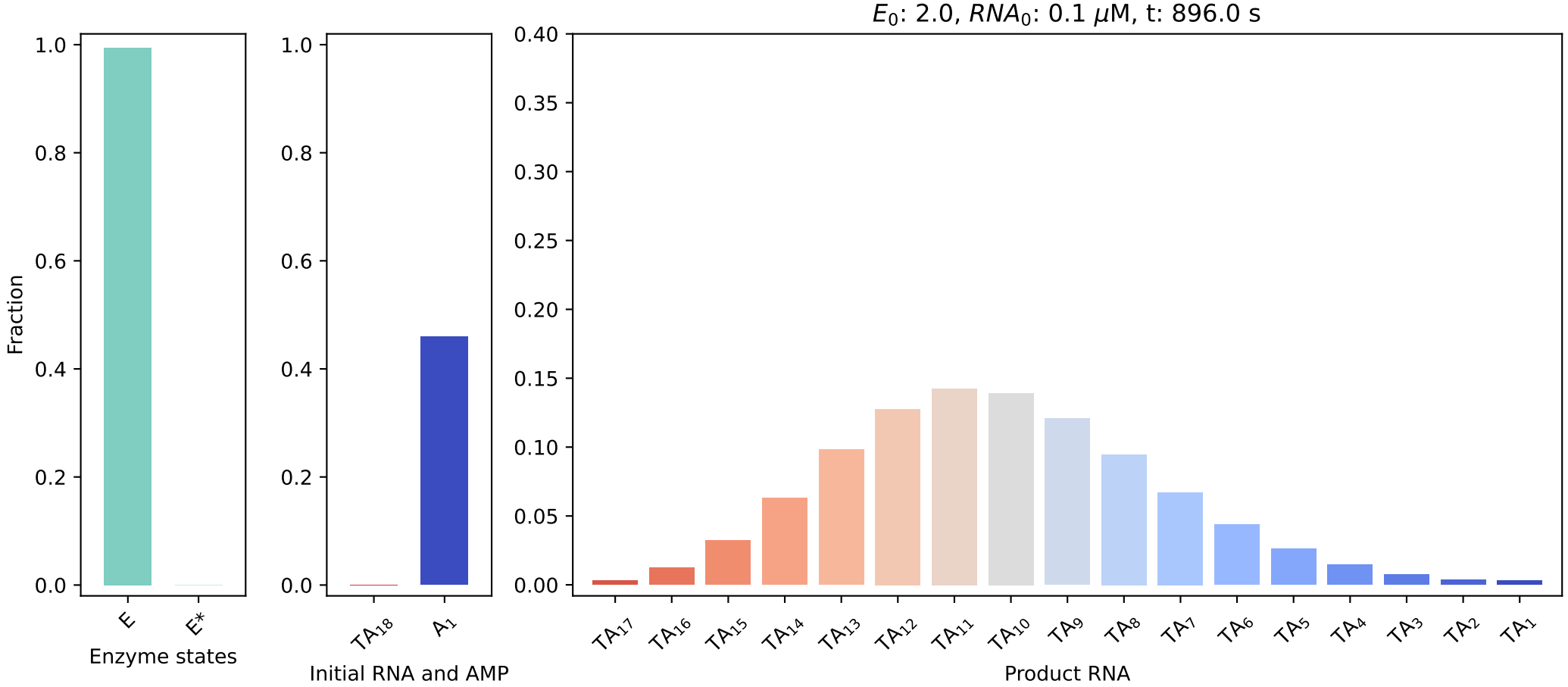
Product RNA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Enzyme states
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Initial RNA and AMP
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TA2
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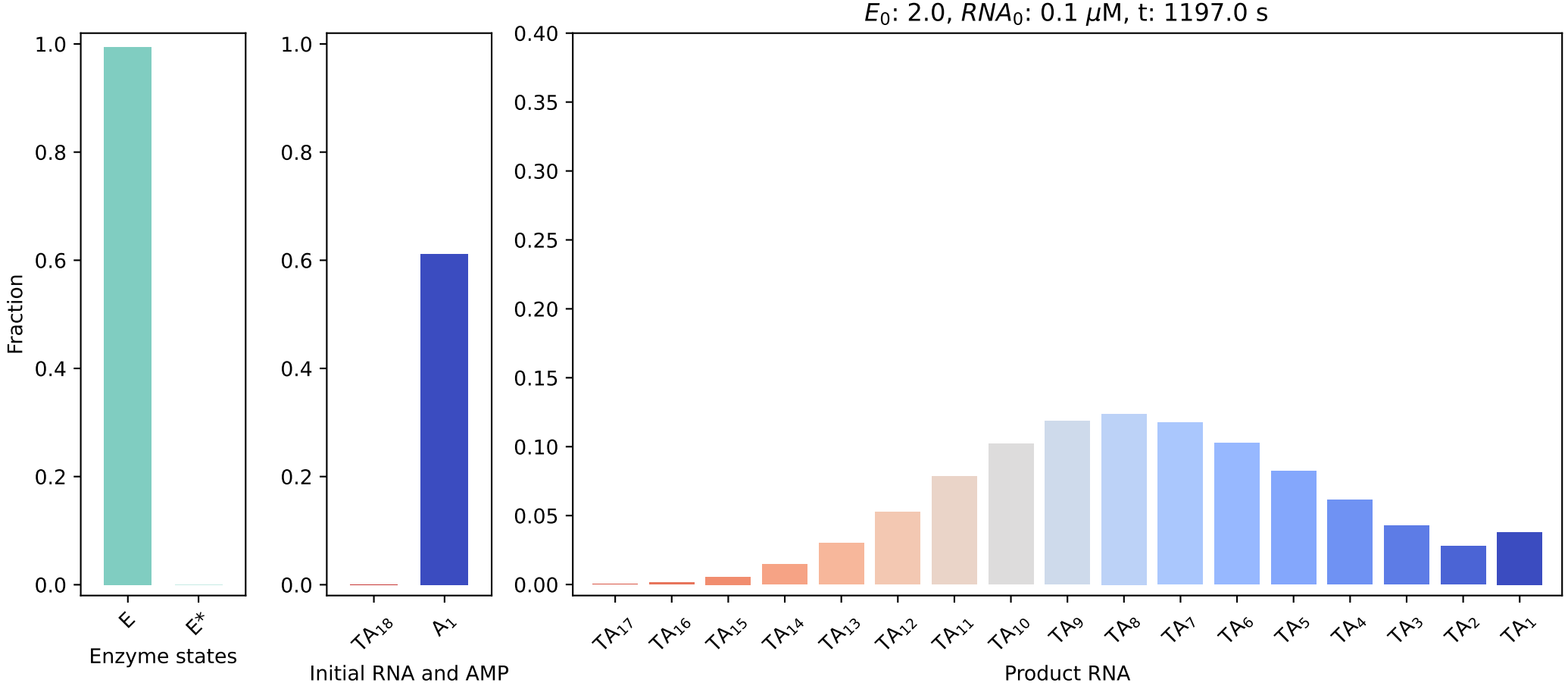
Product RNA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E
E*
Enzyme states
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Initial RNA and AMP
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0.30
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0.20
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TA2
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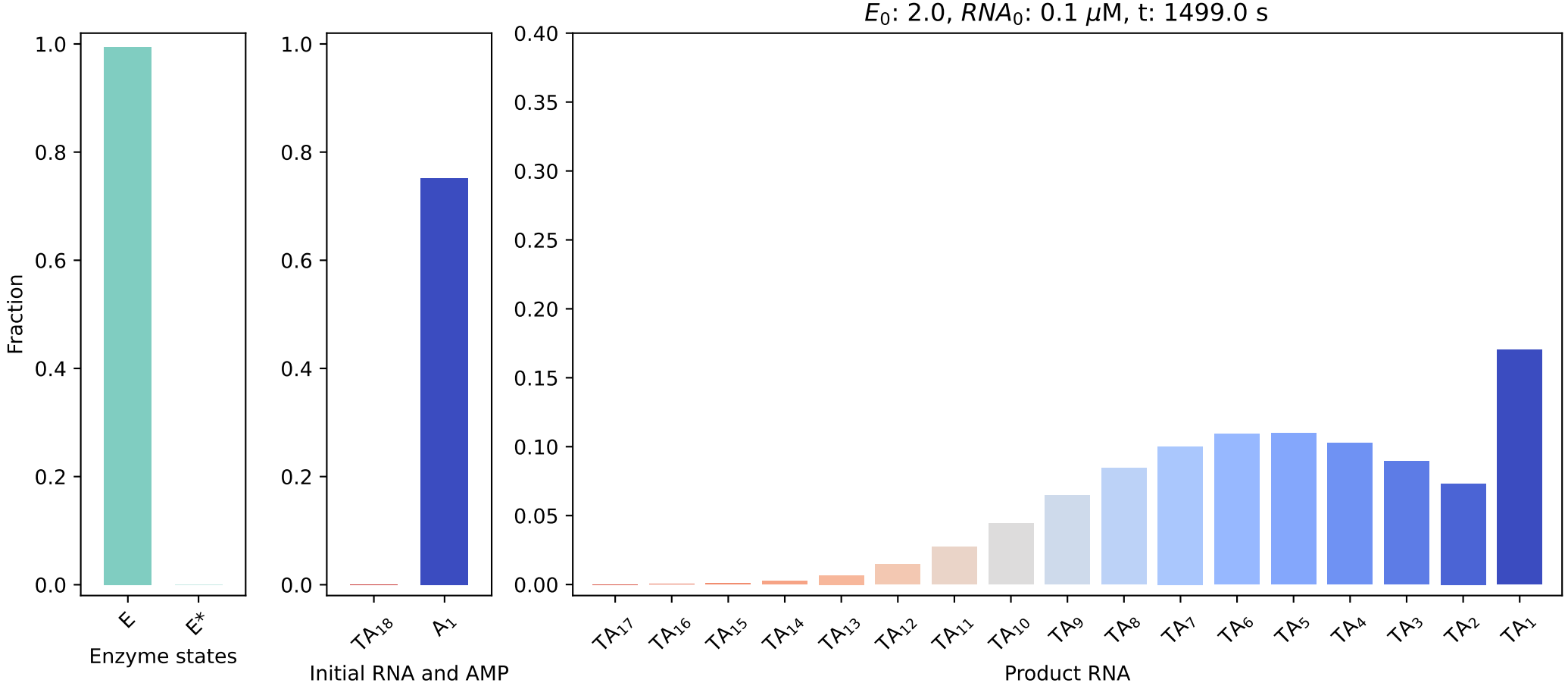
Product RNA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E
E*
Enzyme states
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Initial RNA and AMP
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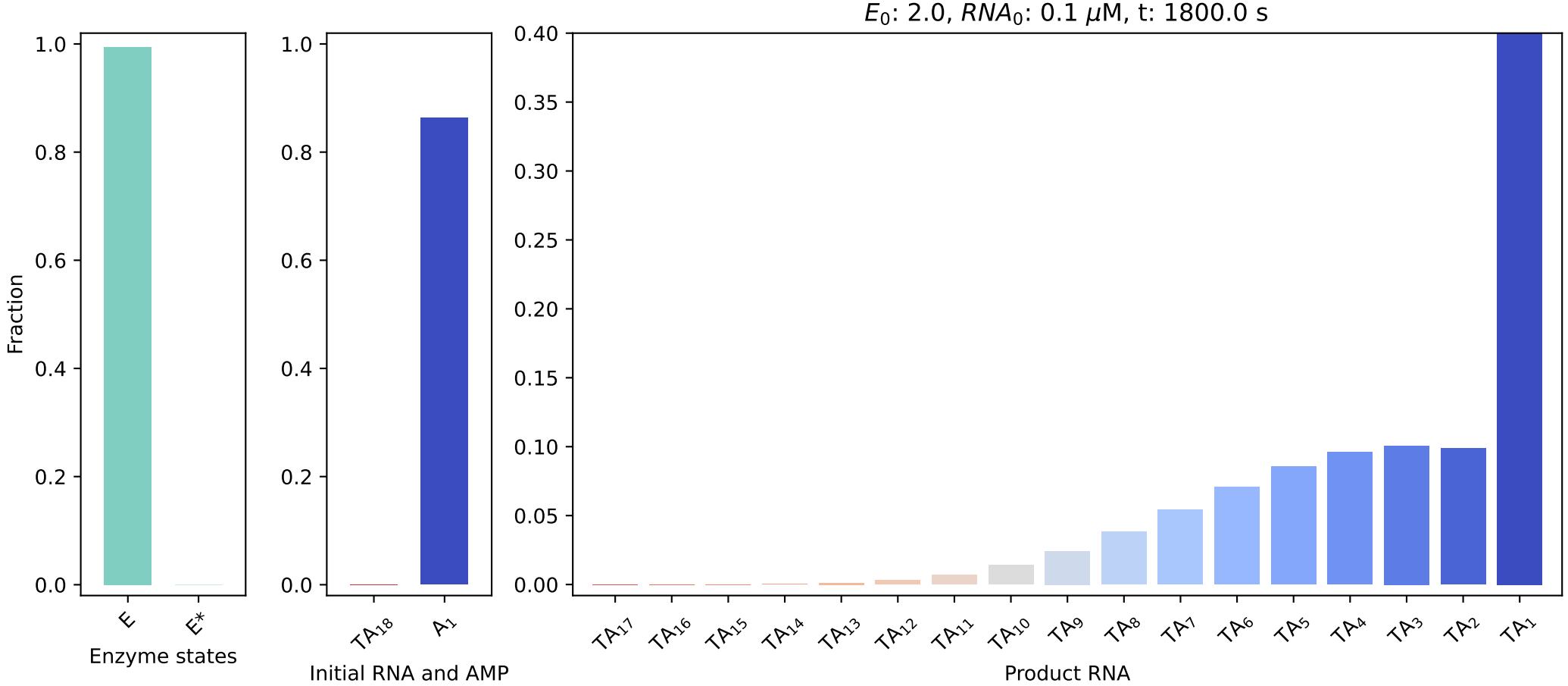
Product RNA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E
E*
Enzyme states
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Initial RNA and AMP
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0.30
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0.20
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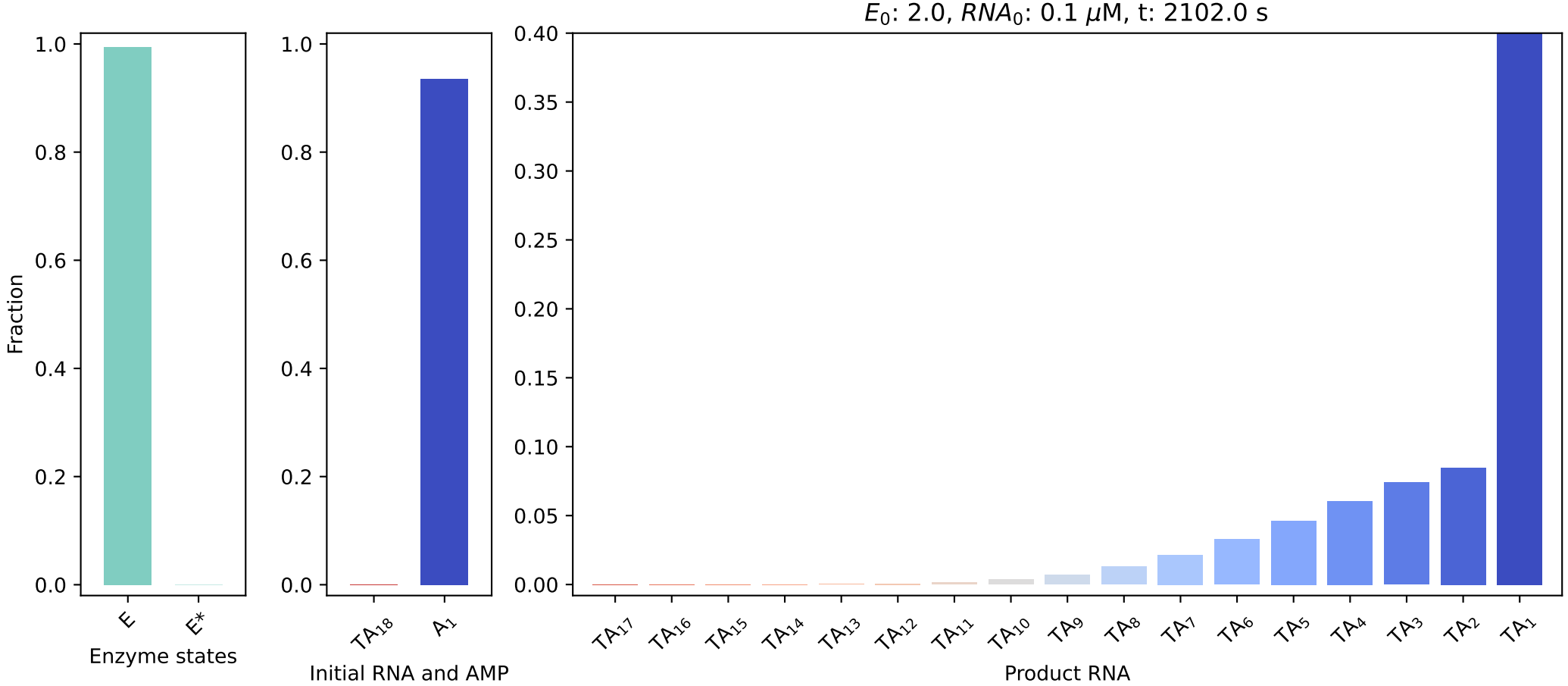
Product RNA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Enzyme states
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A_1
Initial RNA and AMP
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0.30
0.25
0.20
0.15
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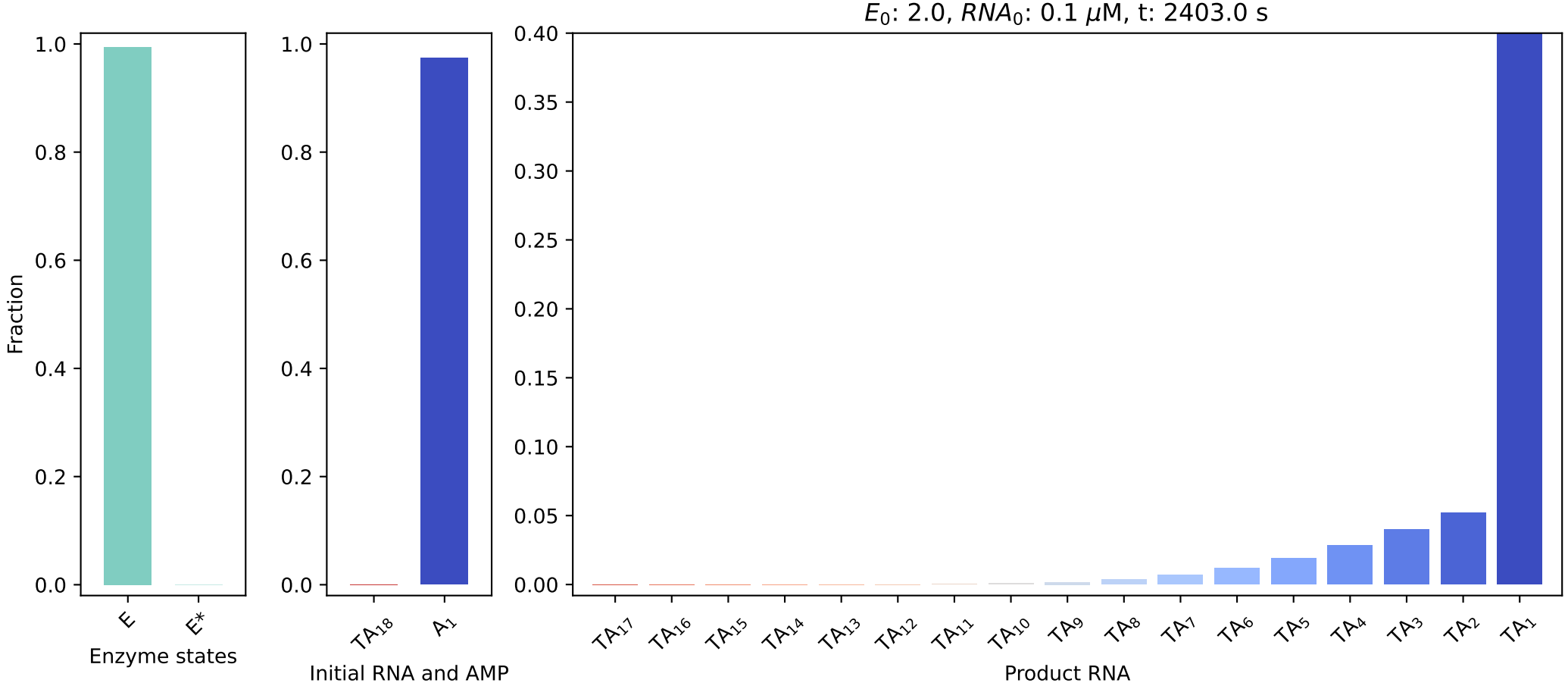
Product RNA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Enzyme states
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Initial RNA and AMP
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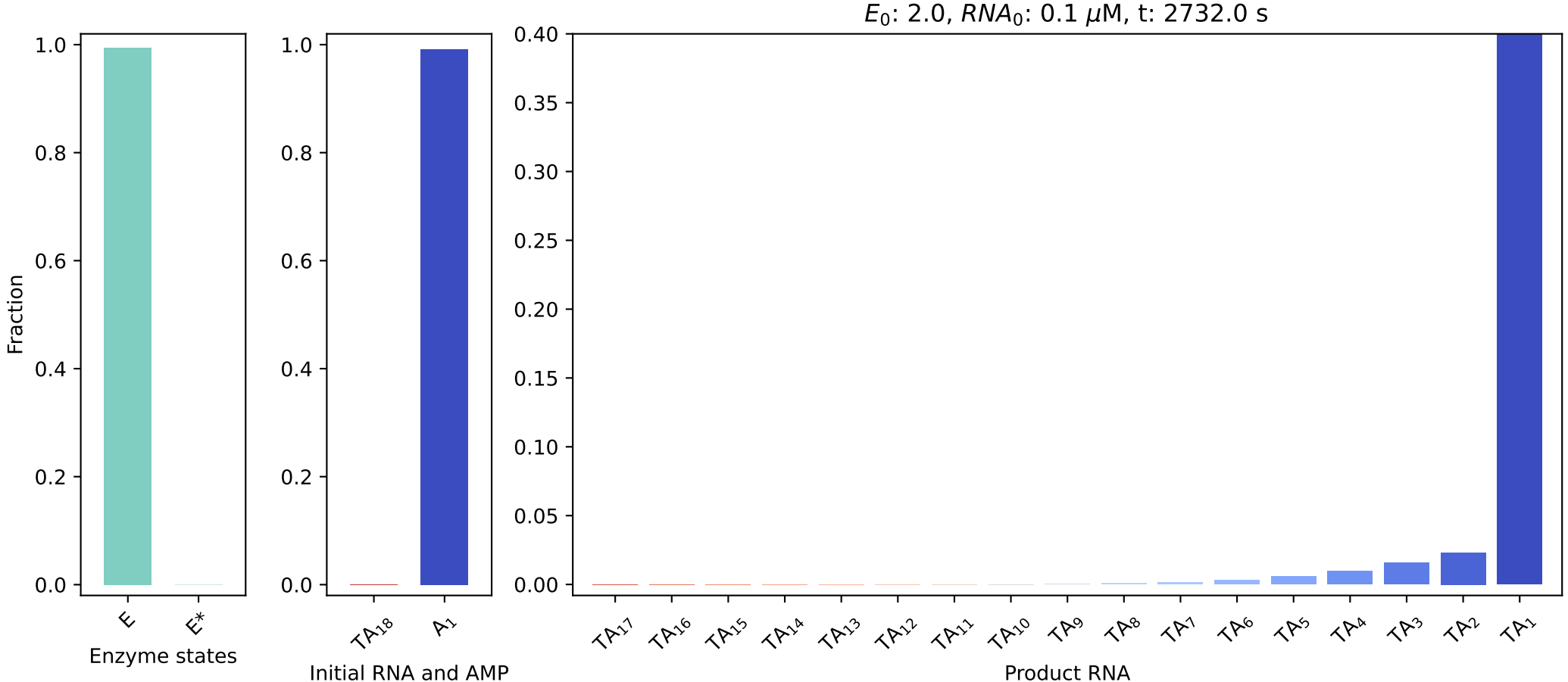
Product RNA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Enzyme states
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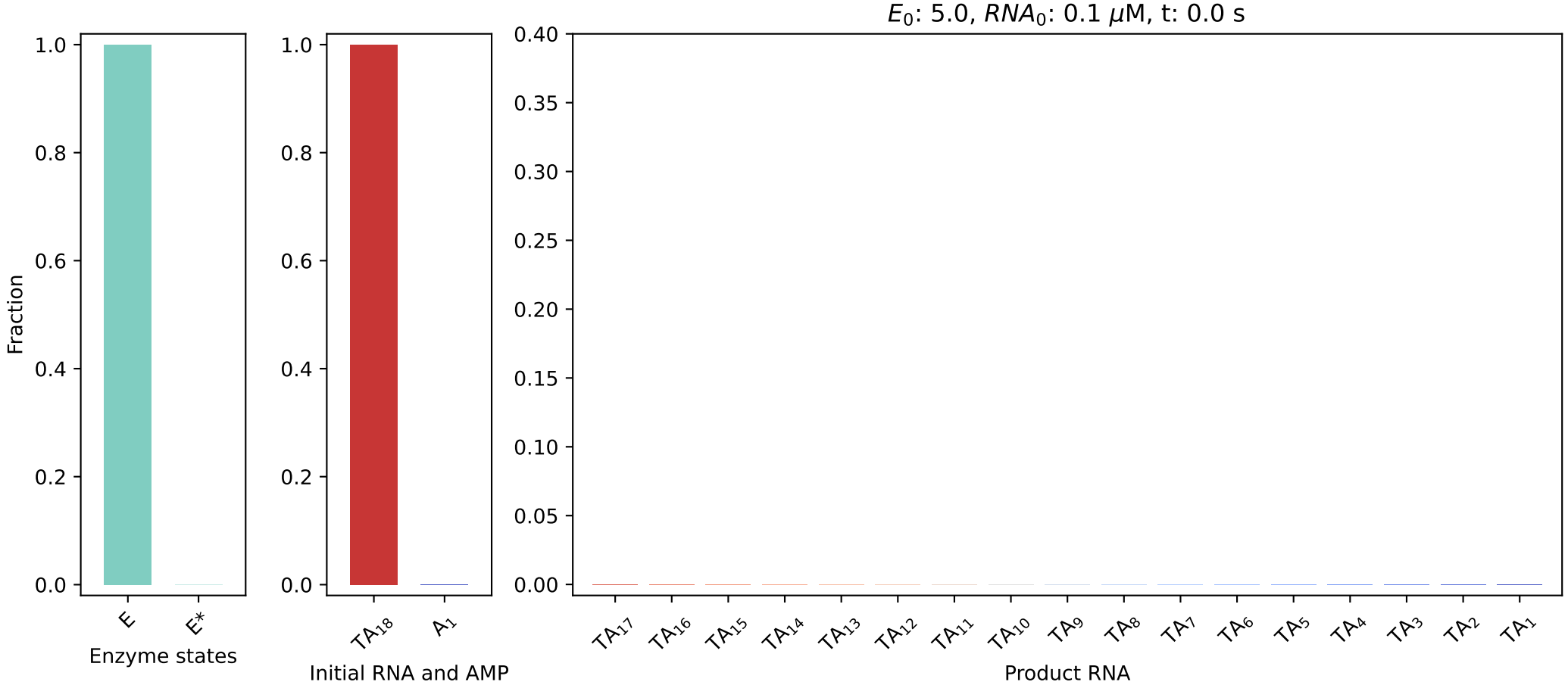
Product RNA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Enzyme states
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Initial RNA and AMP
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TA16
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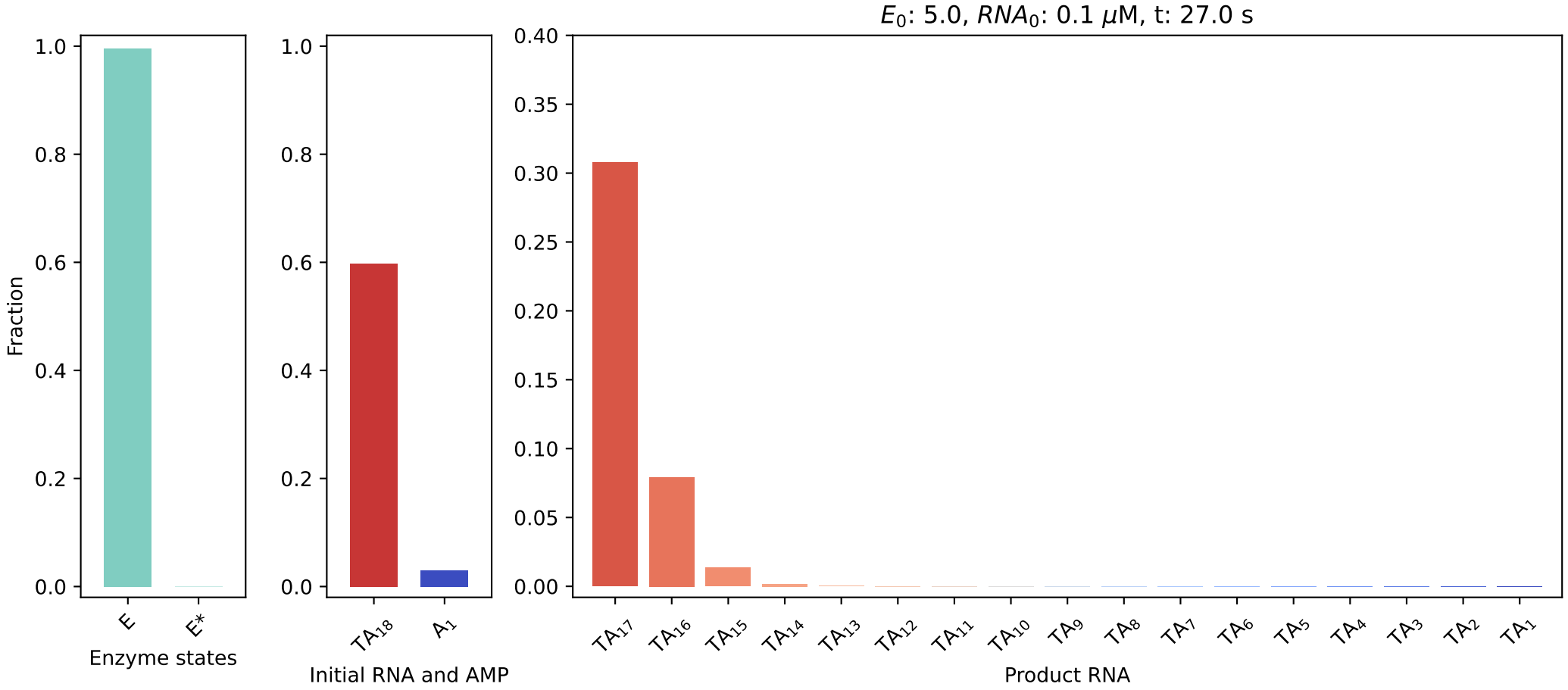
Product RNA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A_1
Initial RNA and AMP
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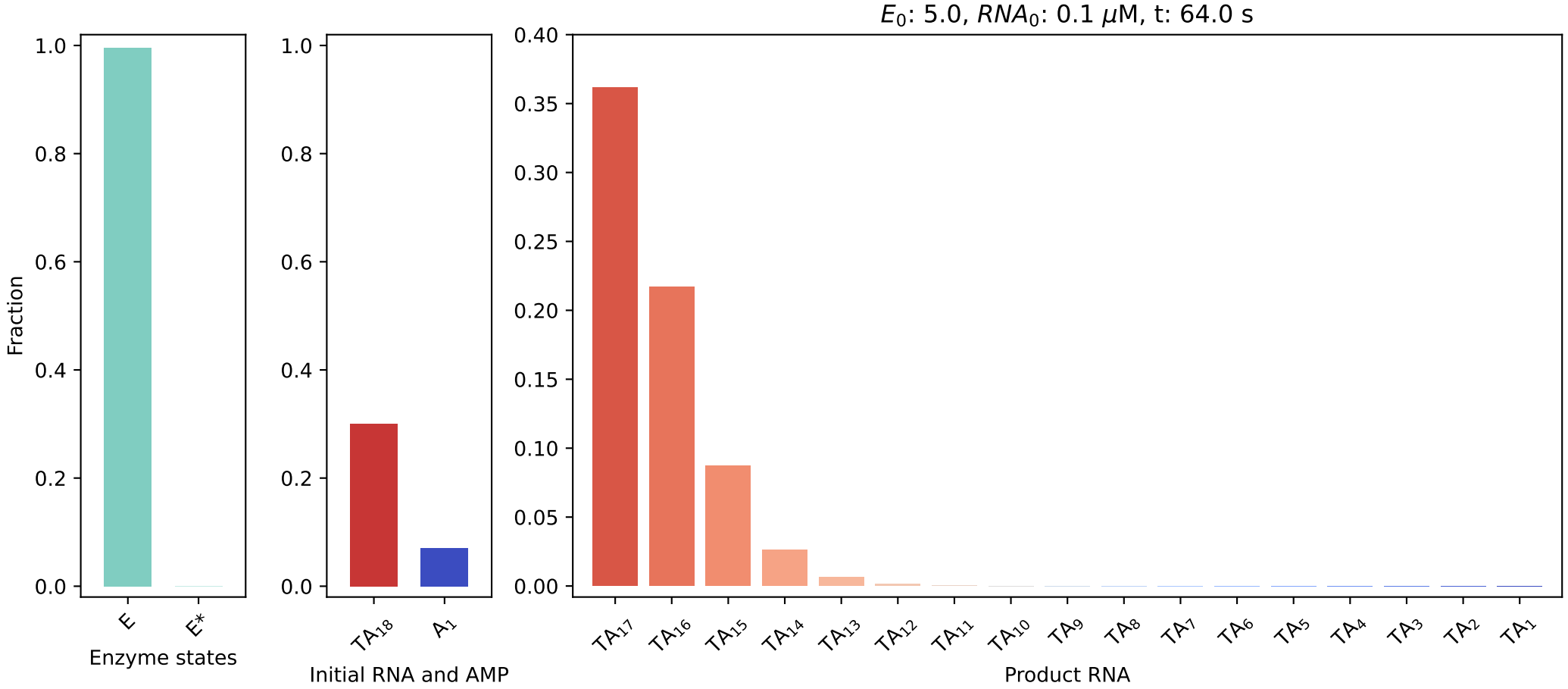
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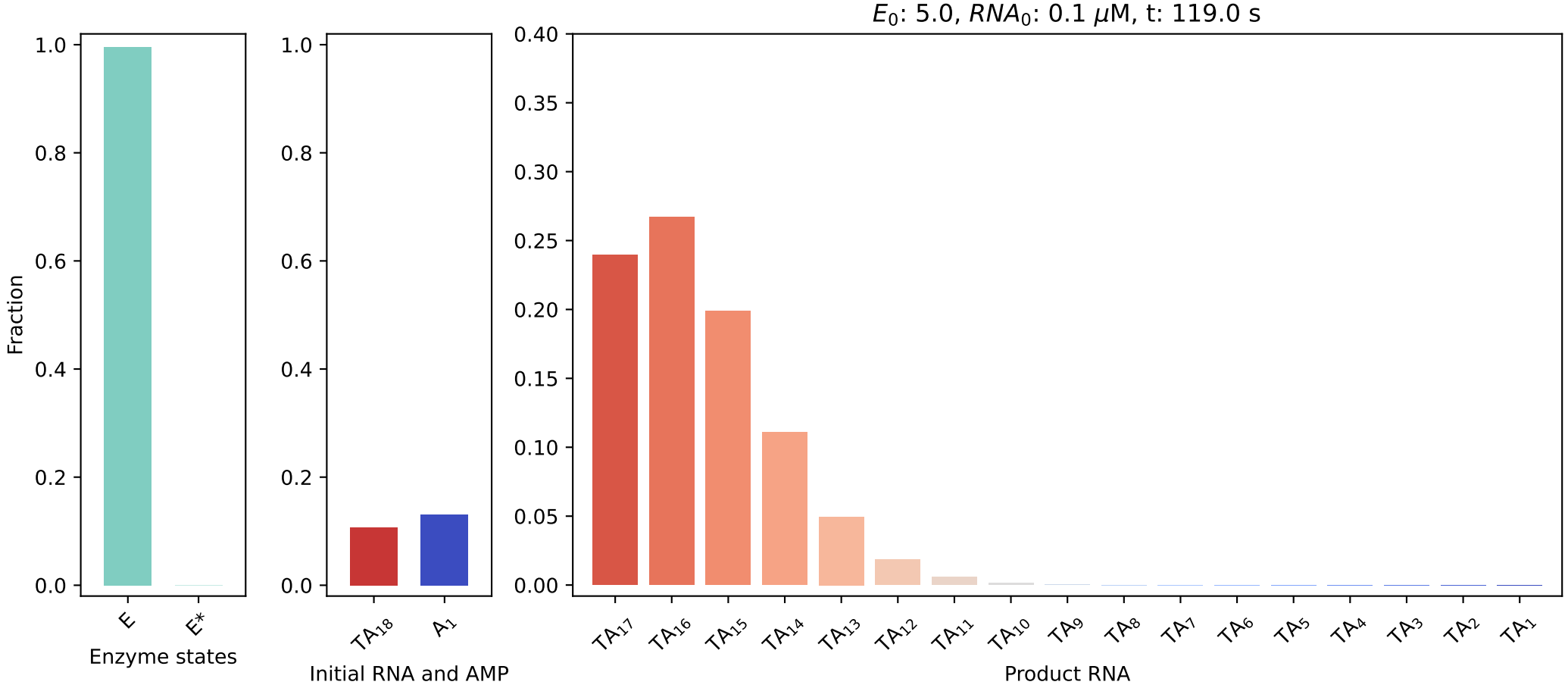
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Enzyme states
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Initial RNA and AMP
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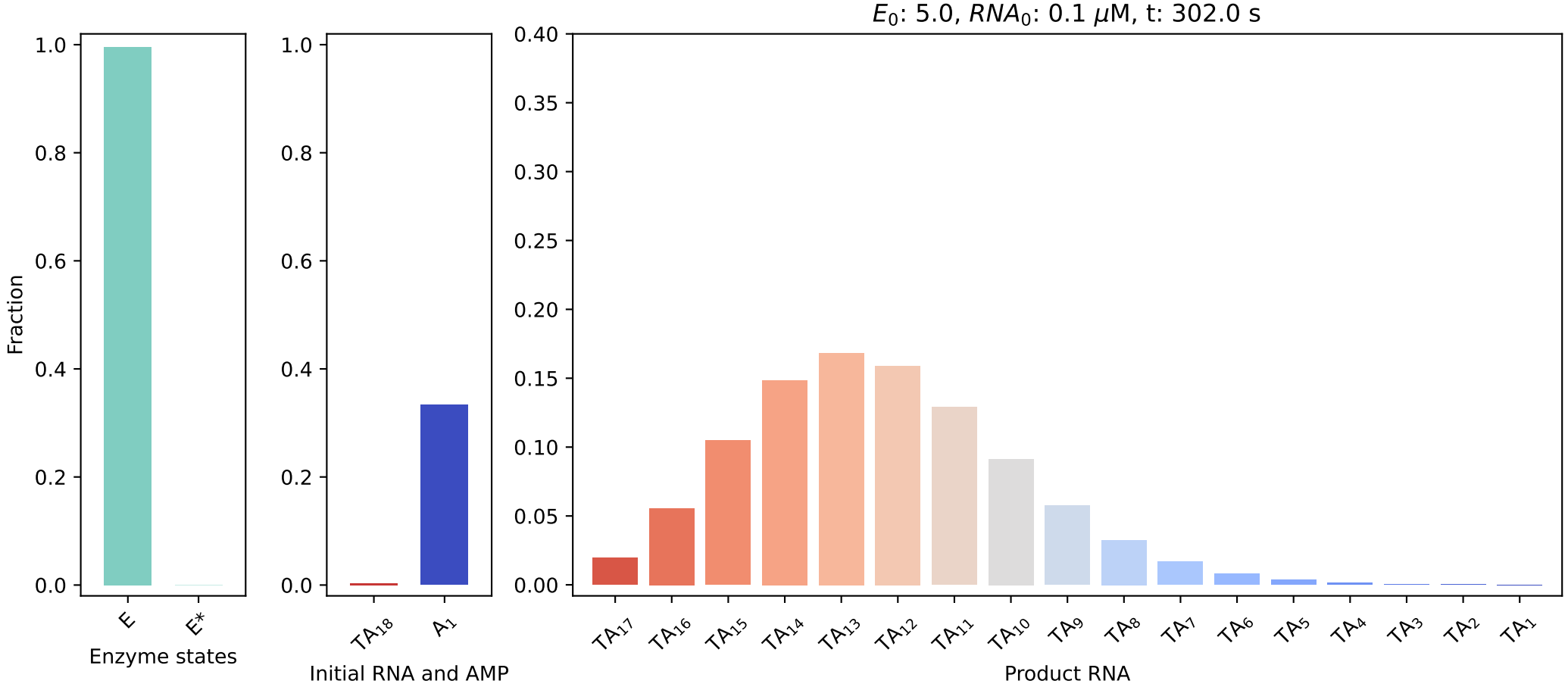
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Enzyme states
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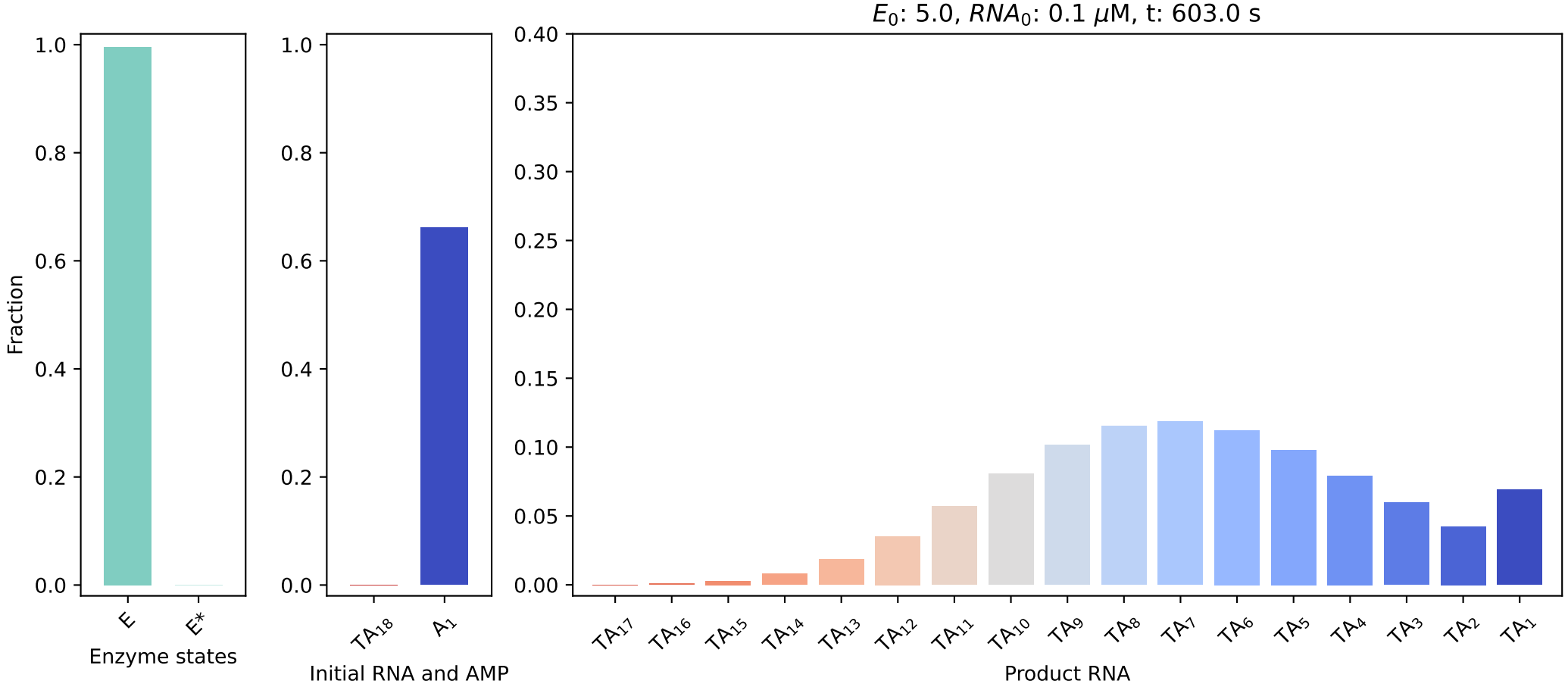
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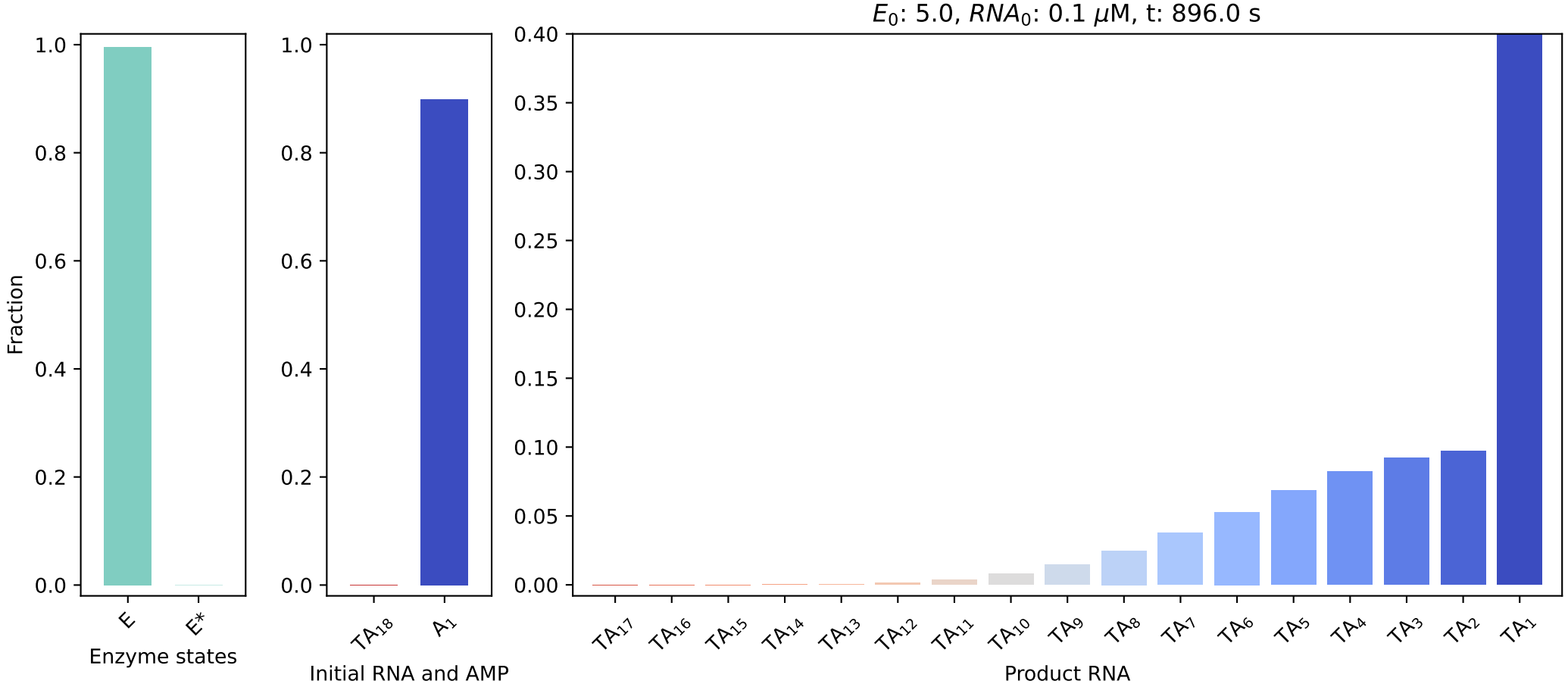
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Initial RNA and AMP
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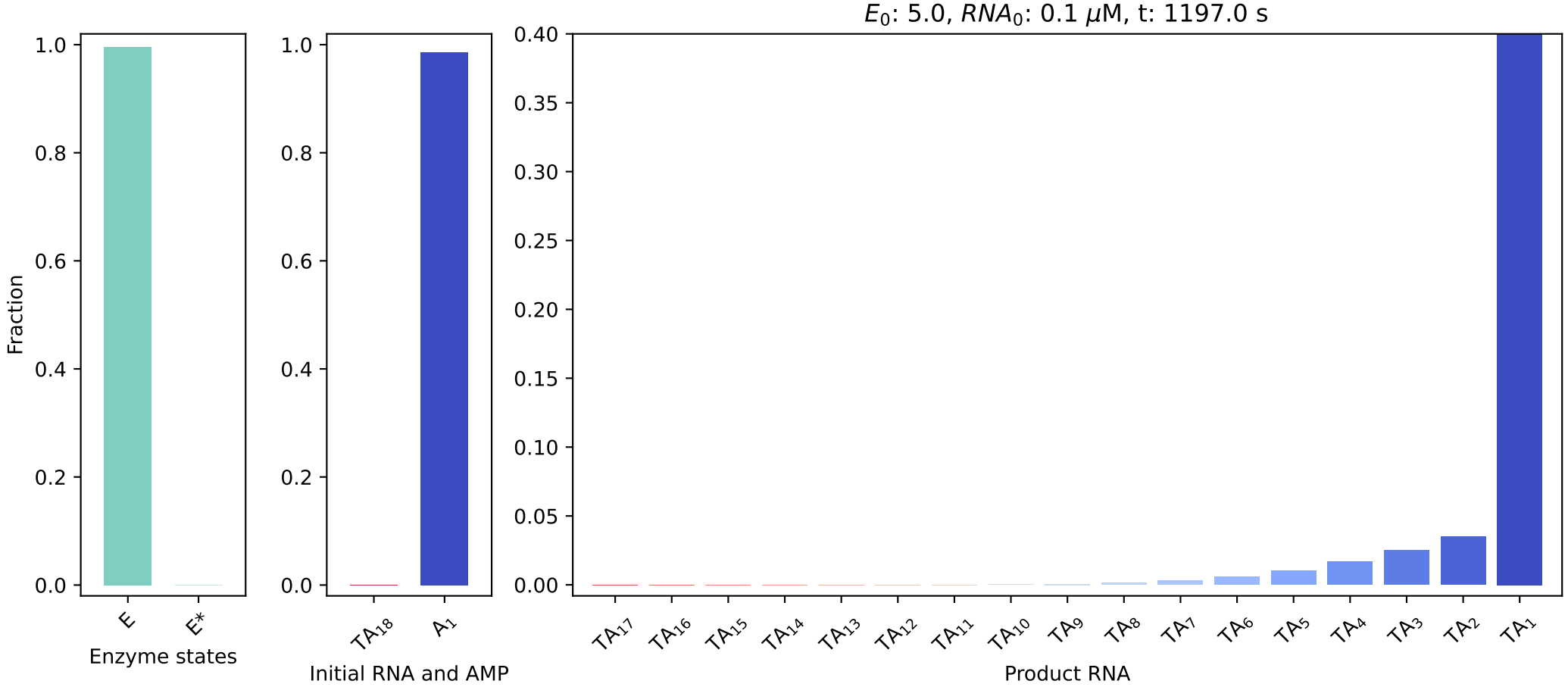
Product RNA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Enzyme states
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A_1
Initial RNA and AMP
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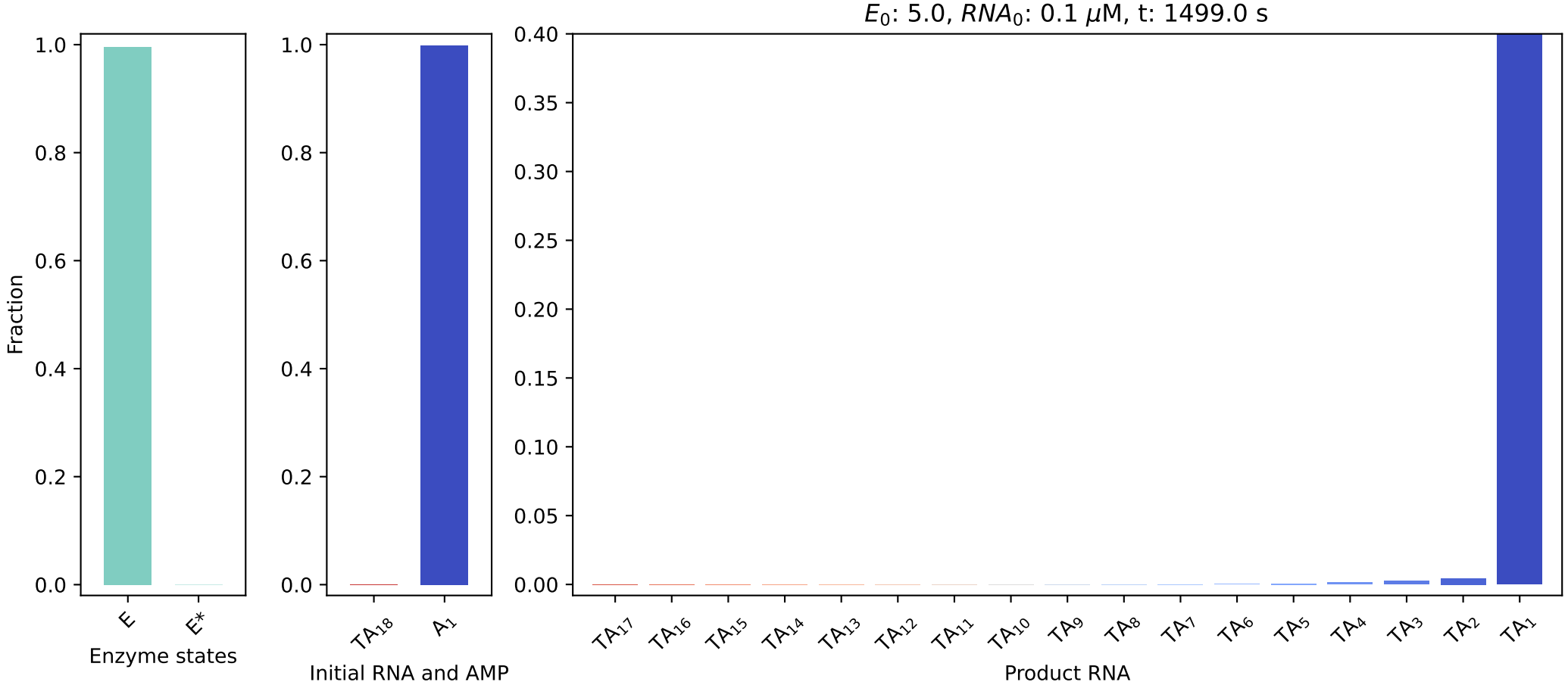
Product RNA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Enzyme states
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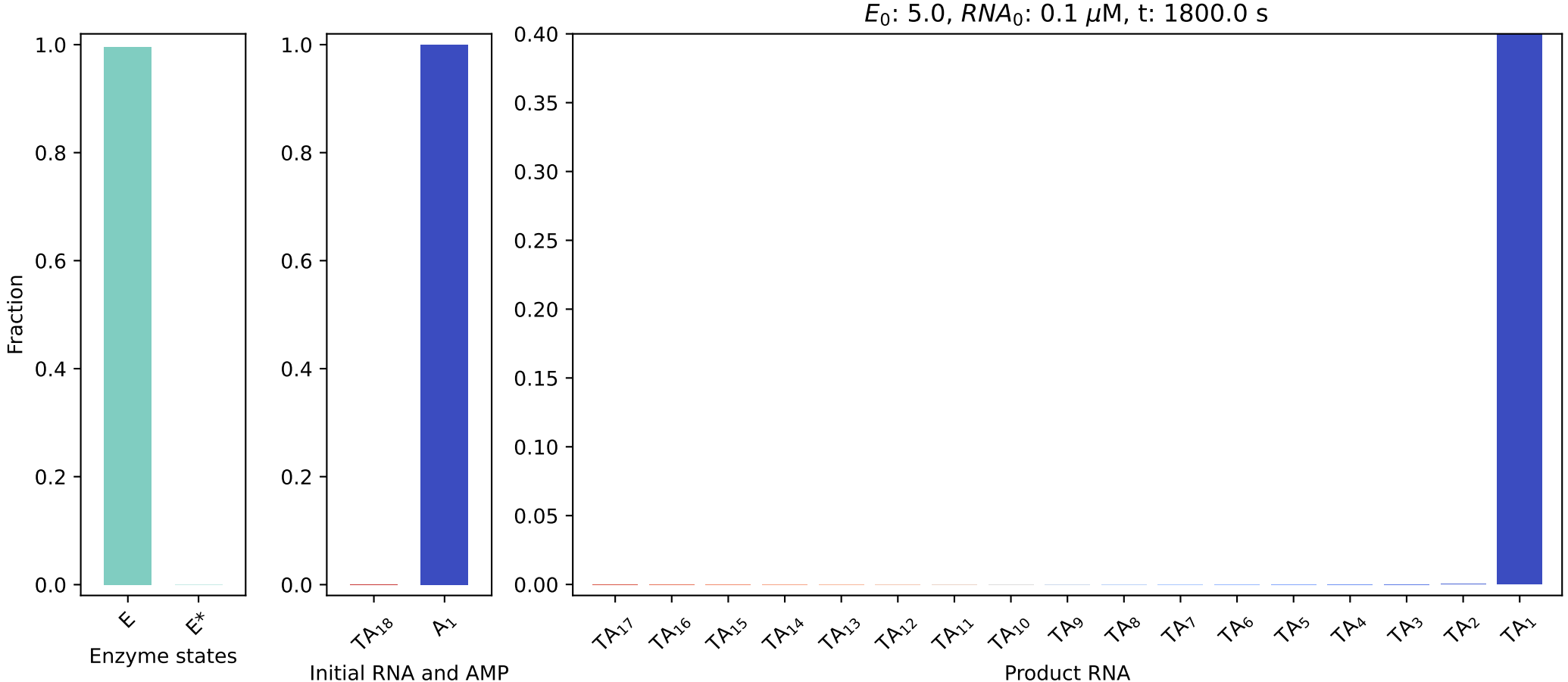
TA_1
Product RNA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E
E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
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TA_4
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TA_2
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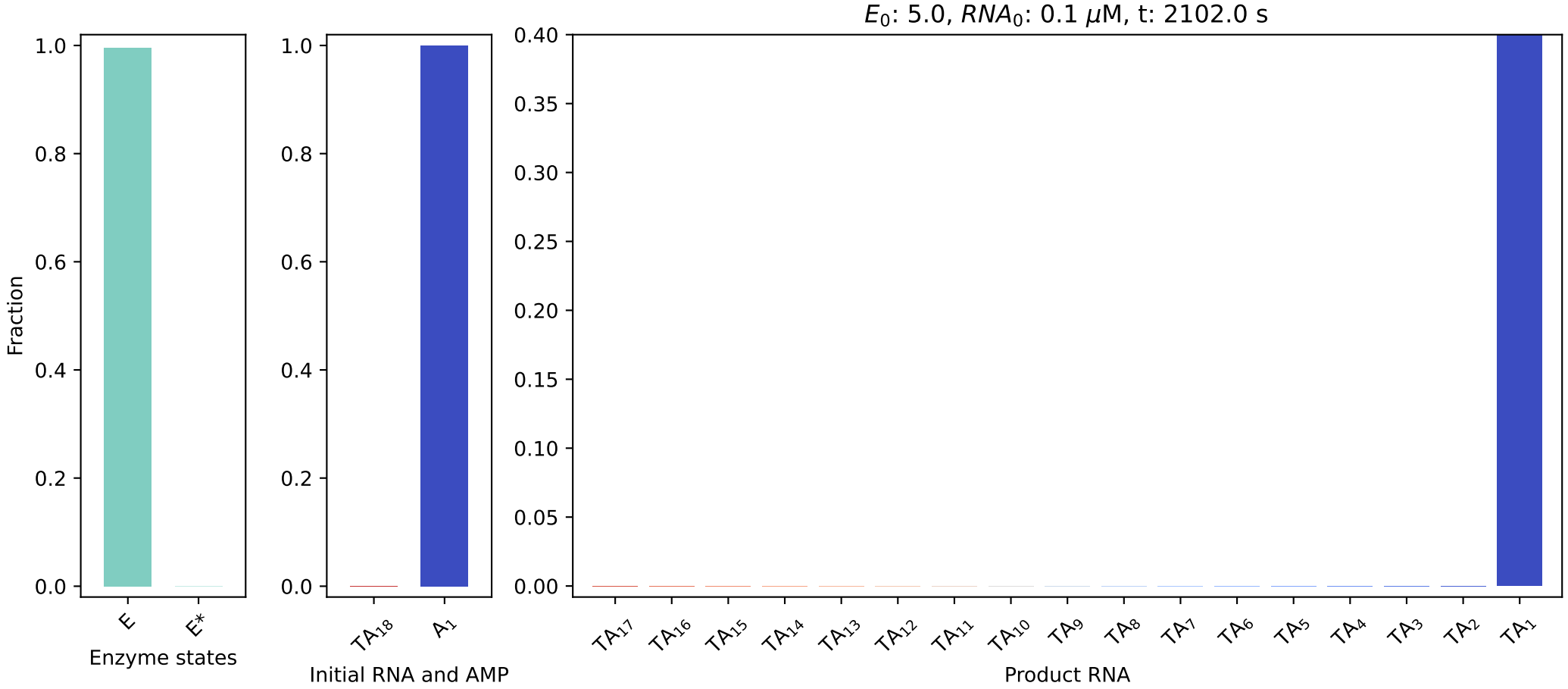
Product RNA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Enzyme states
TA18
A1
Initial RNA and AMP
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0.35
0.30
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0.20
0.15
0.10
0.05
0.00
TA17
TA16
TA15
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TA7
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TA3
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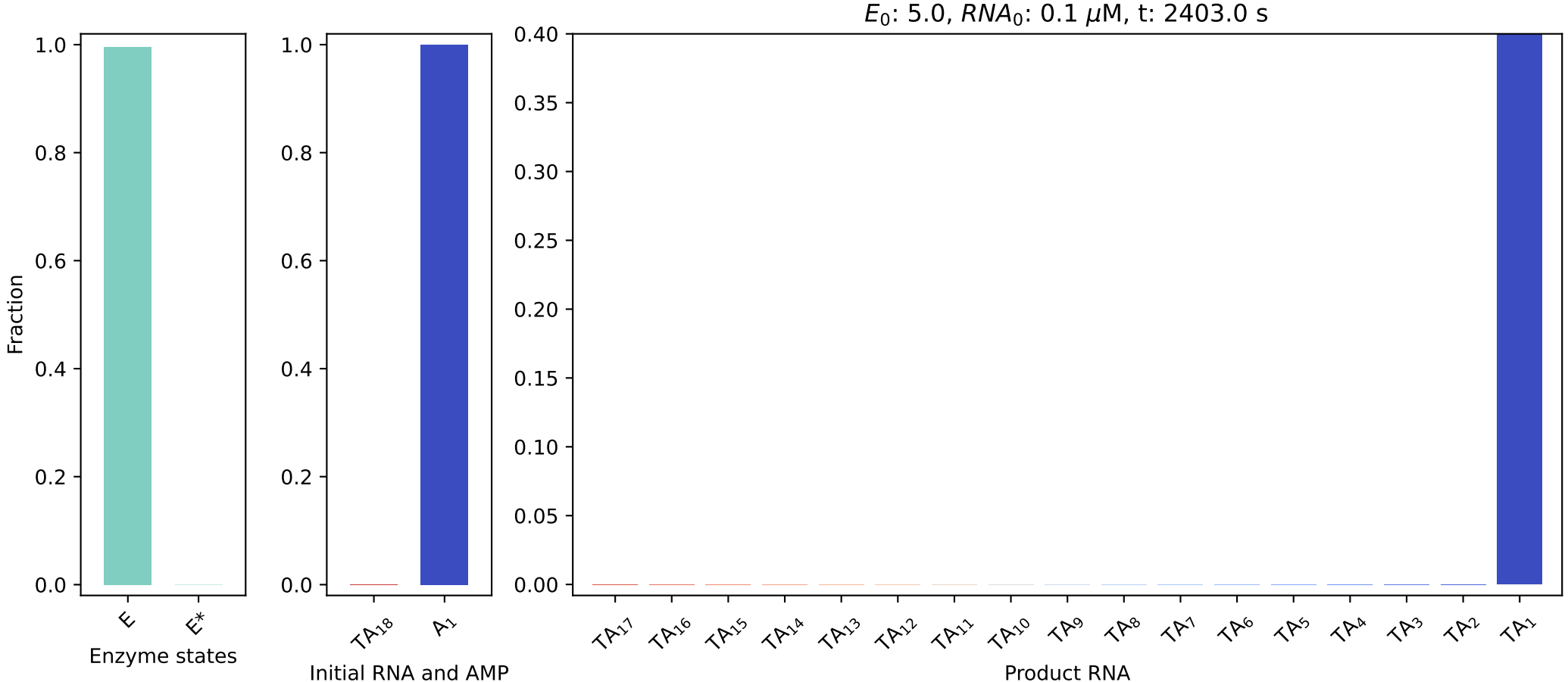
Product RNA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E*
Enzyme states
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A1
Initial RNA and AMP
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0.10
0.05
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TA17
TA16
TA15
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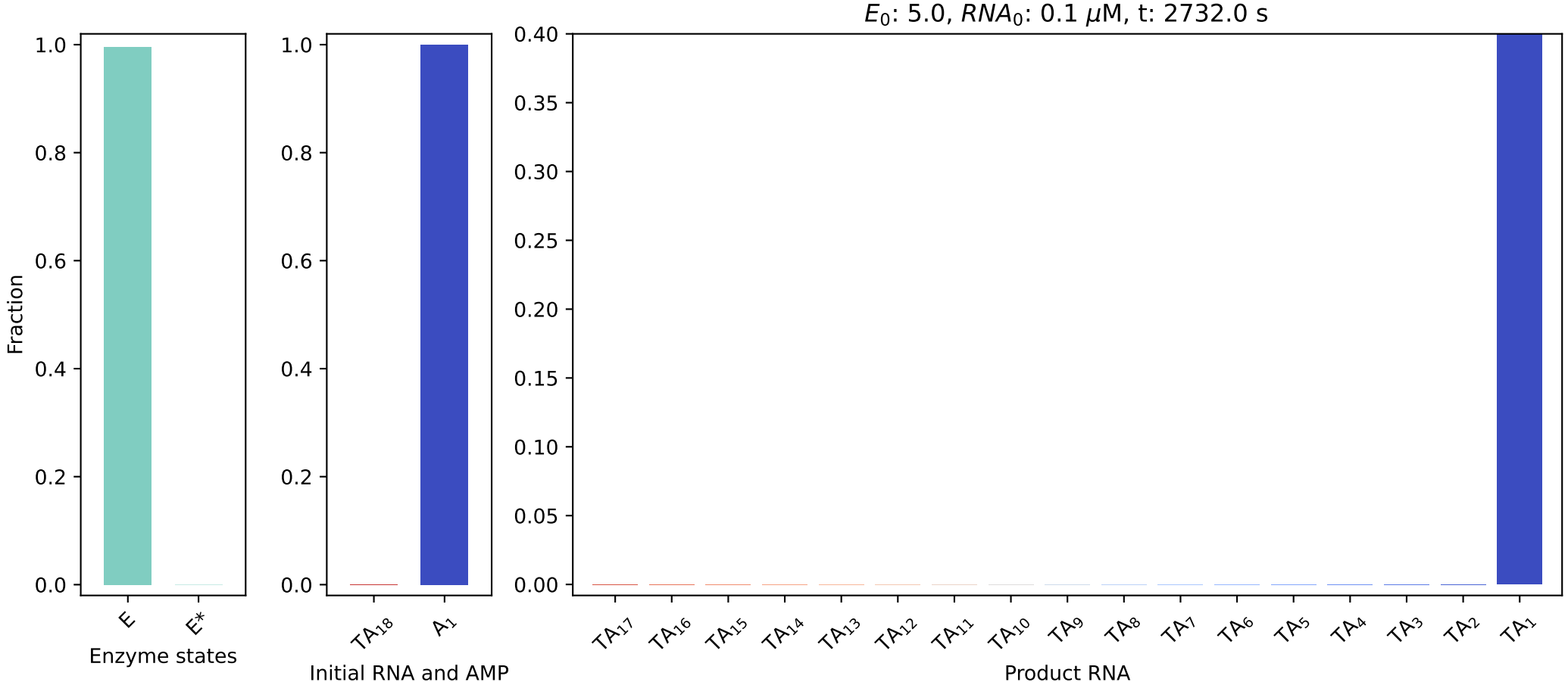
Product RNA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TA17
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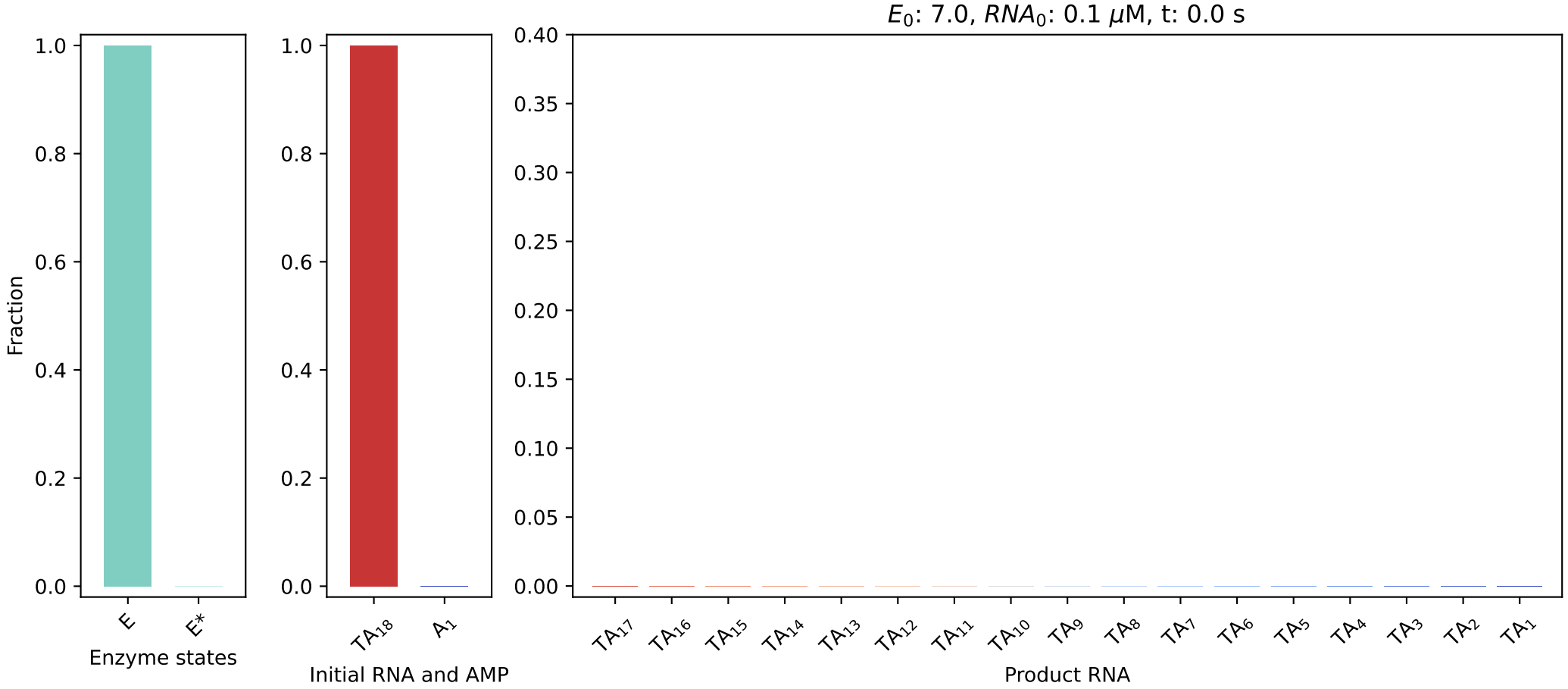
Product RNA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Enzyme states
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A1
Initial RNA and AMP
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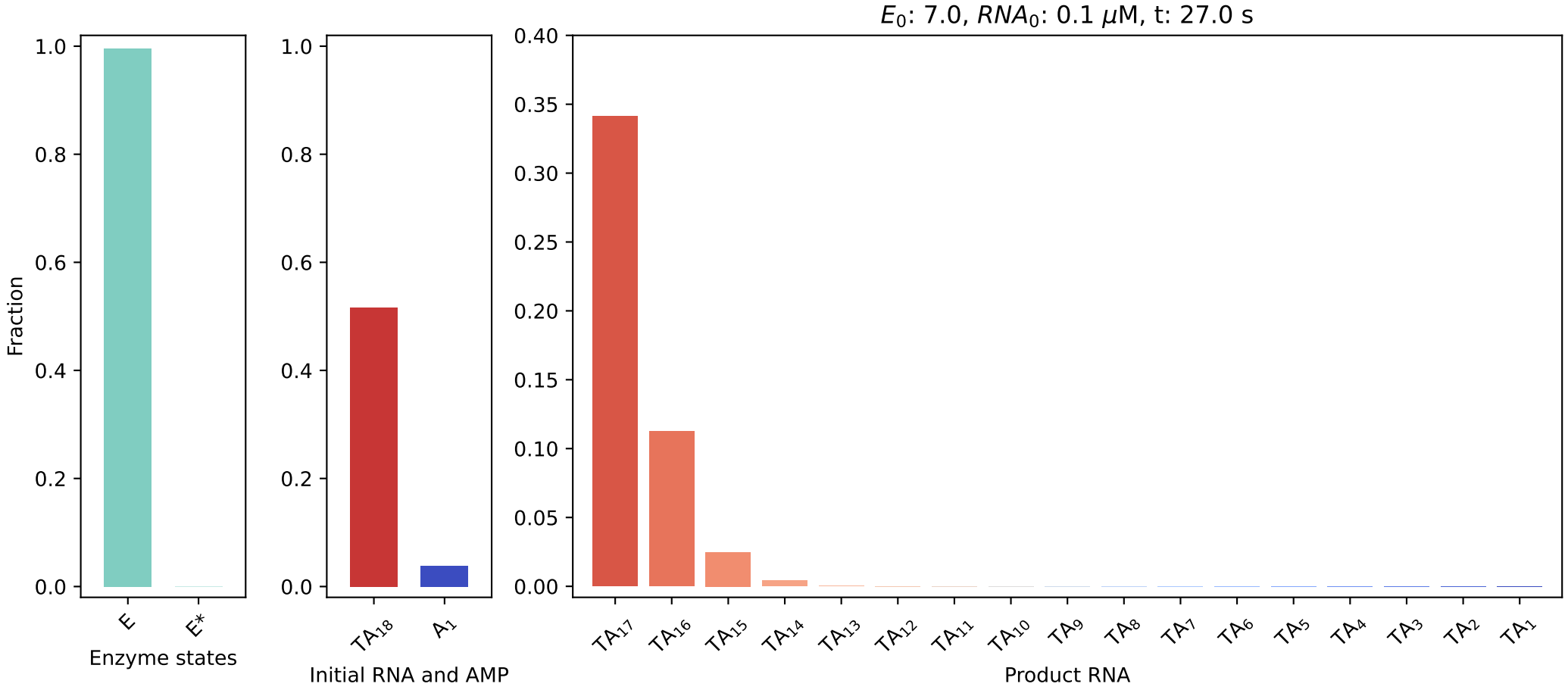
Product RNA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Enzyme states
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A_1
Initial RNA and AMP
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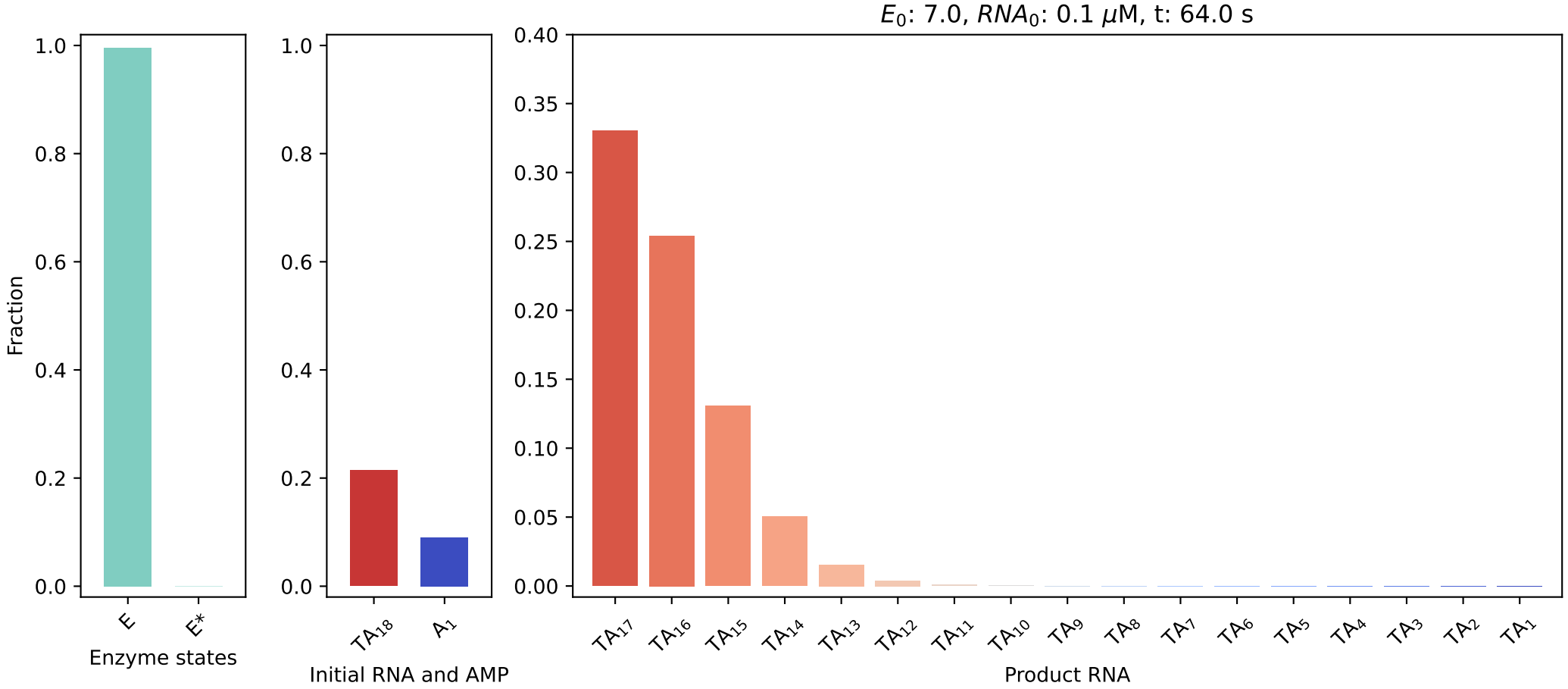
Product RNA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Enzyme states
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A1
Initial RNA and AMP
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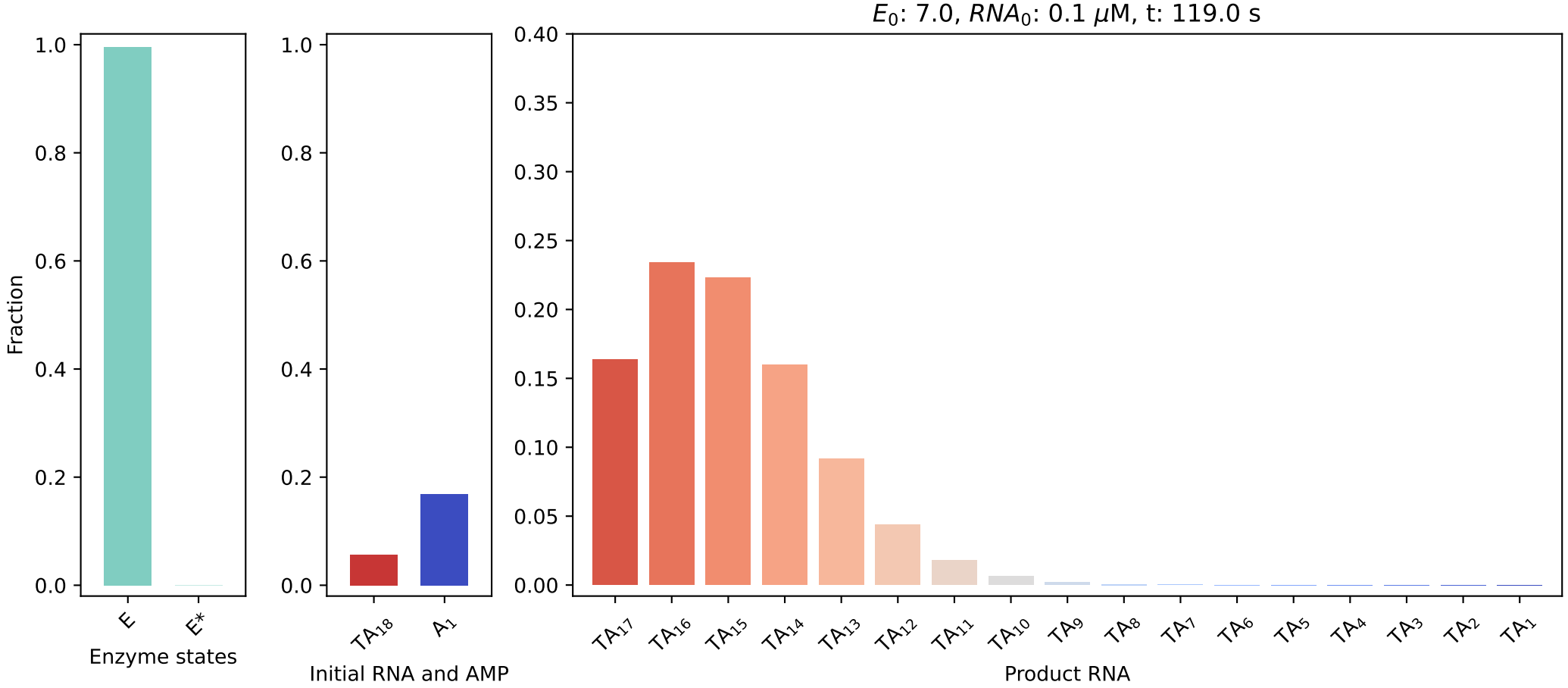
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Enzyme states
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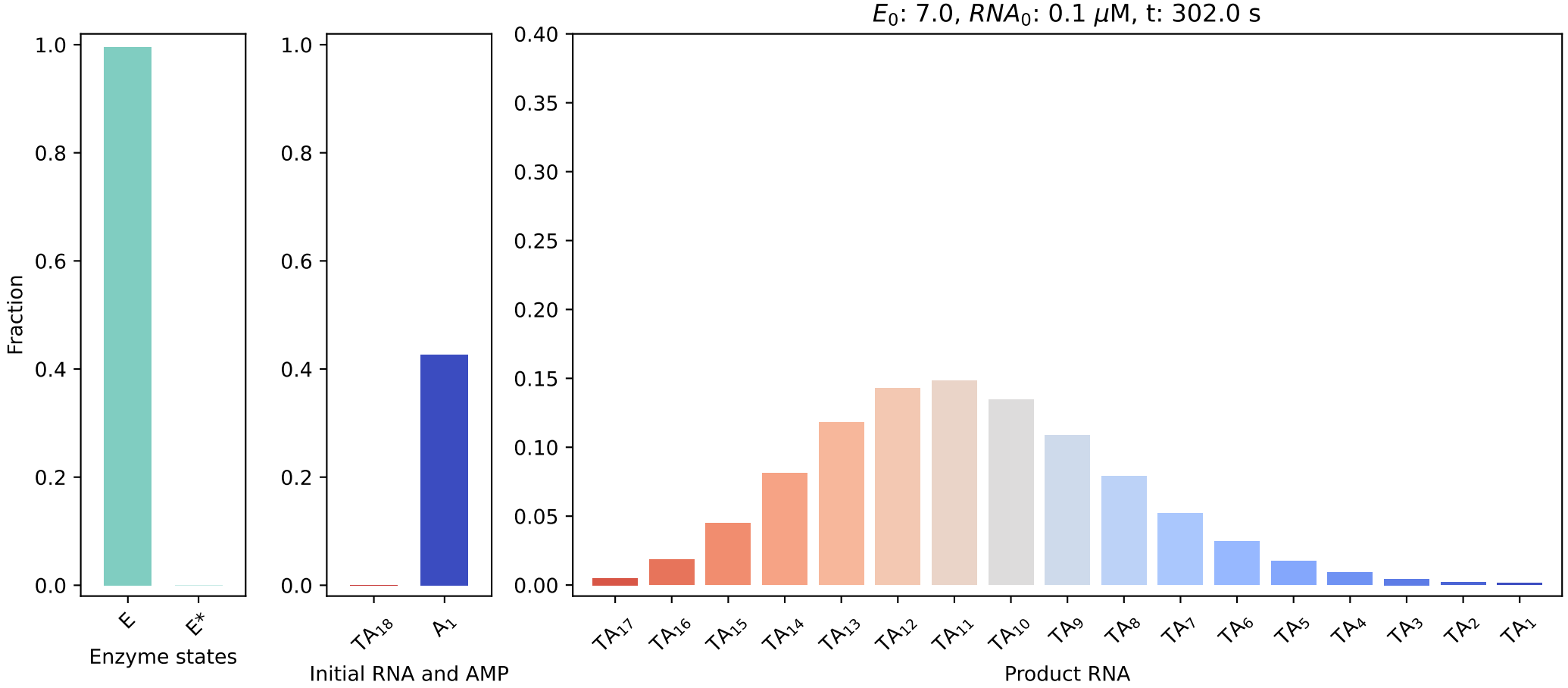
Product RNA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Enzyme states
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A_1
Initial RNA and AMP
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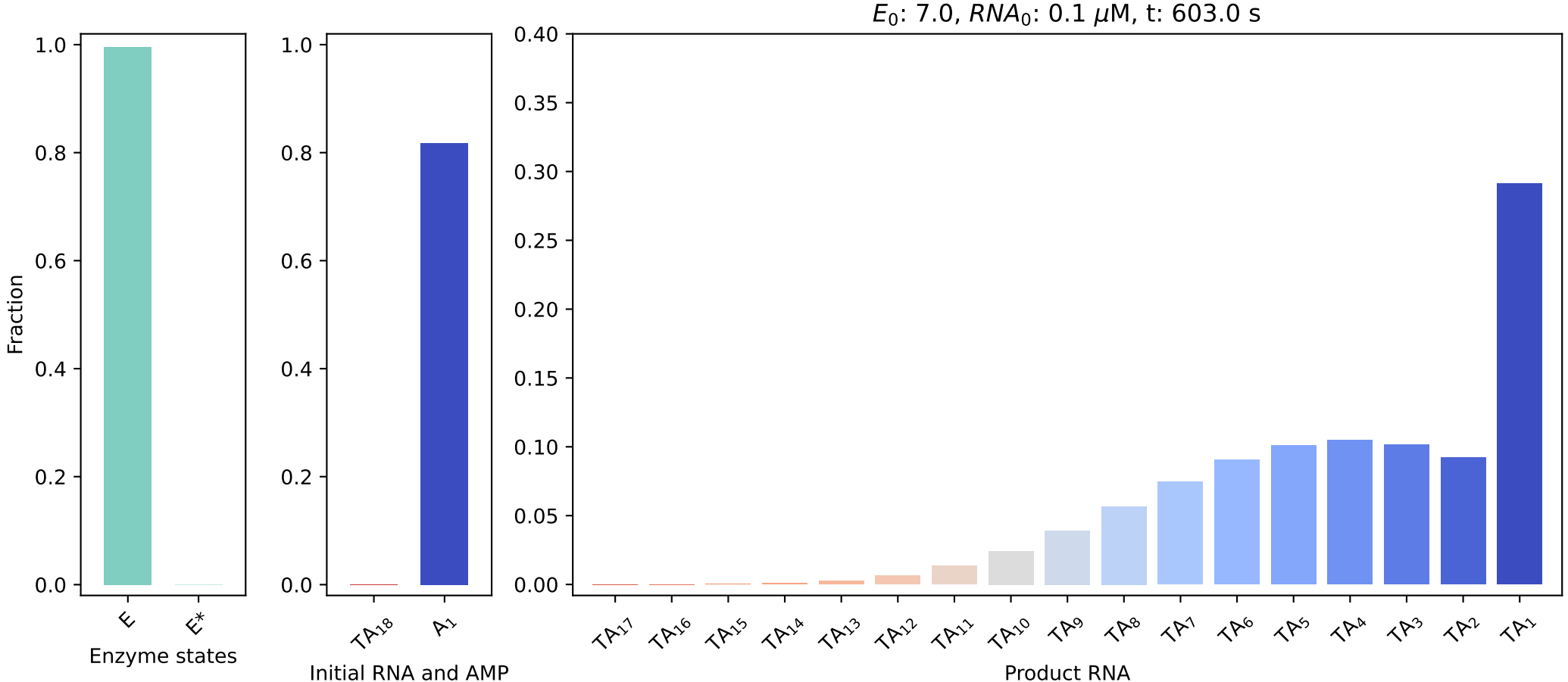
Product RNA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Enzyme states
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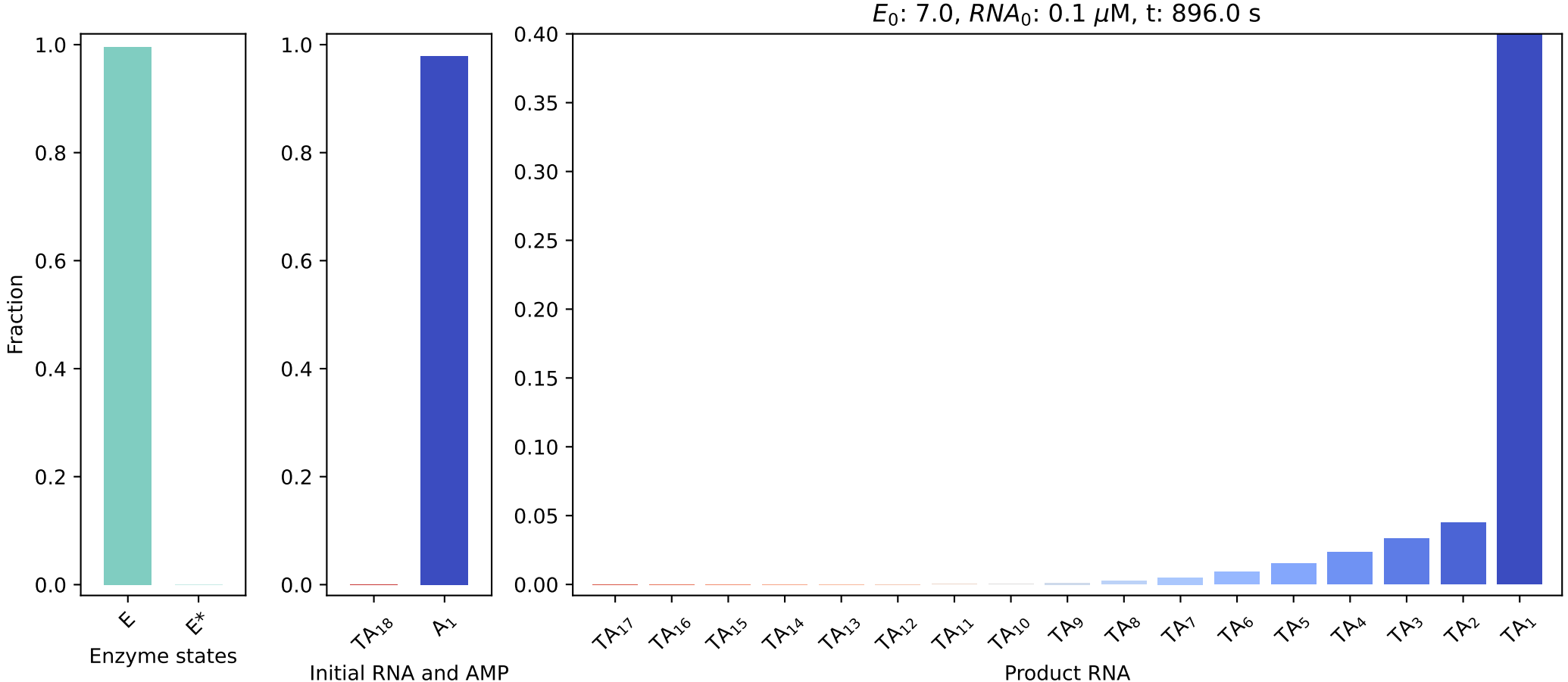
Product RNA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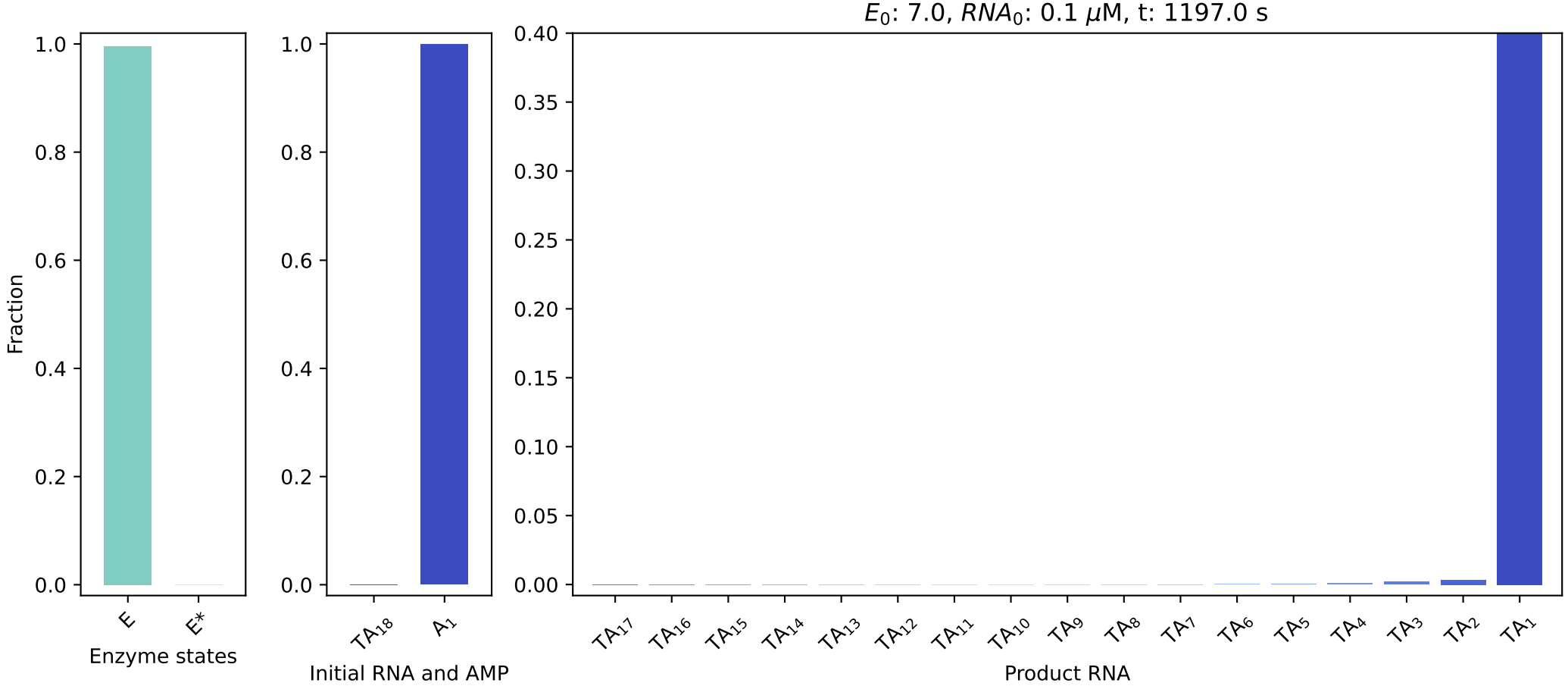
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Initial RNA and AMP
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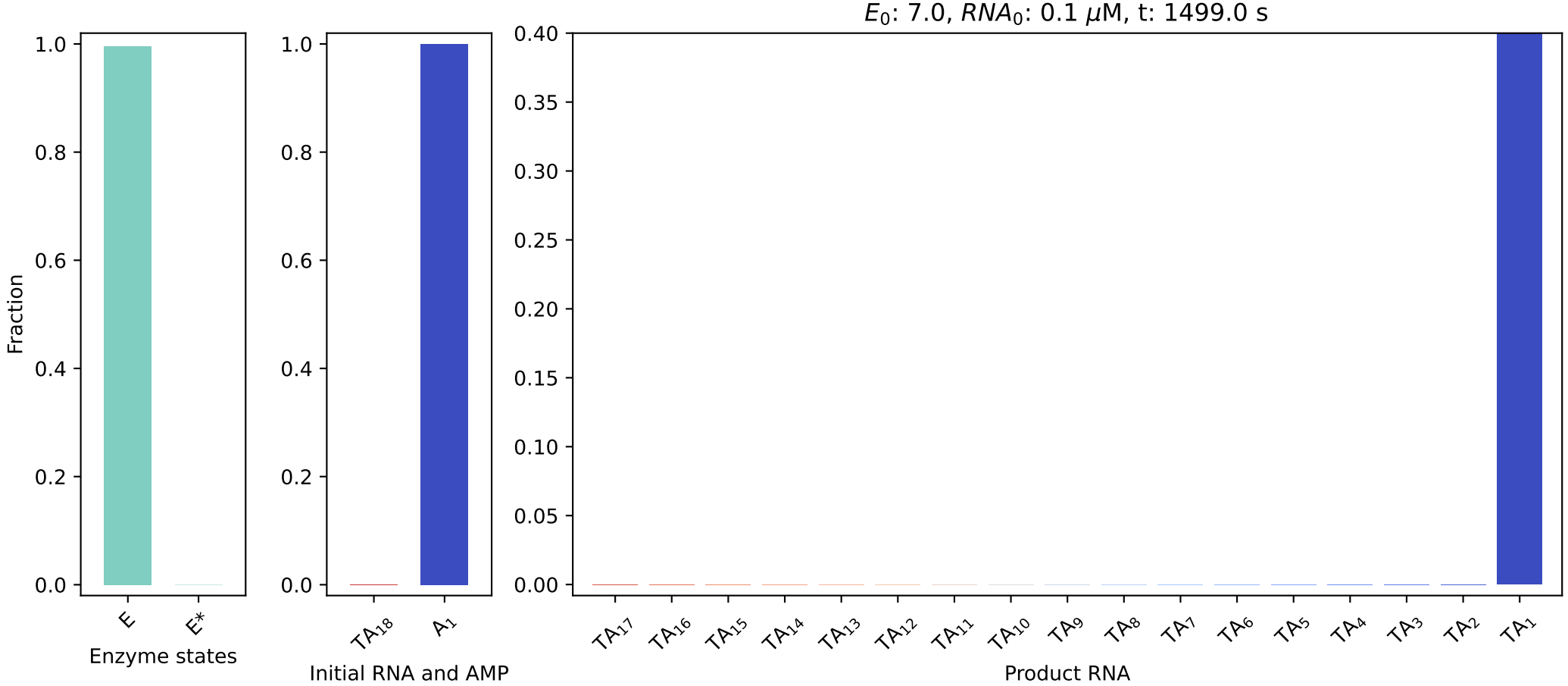
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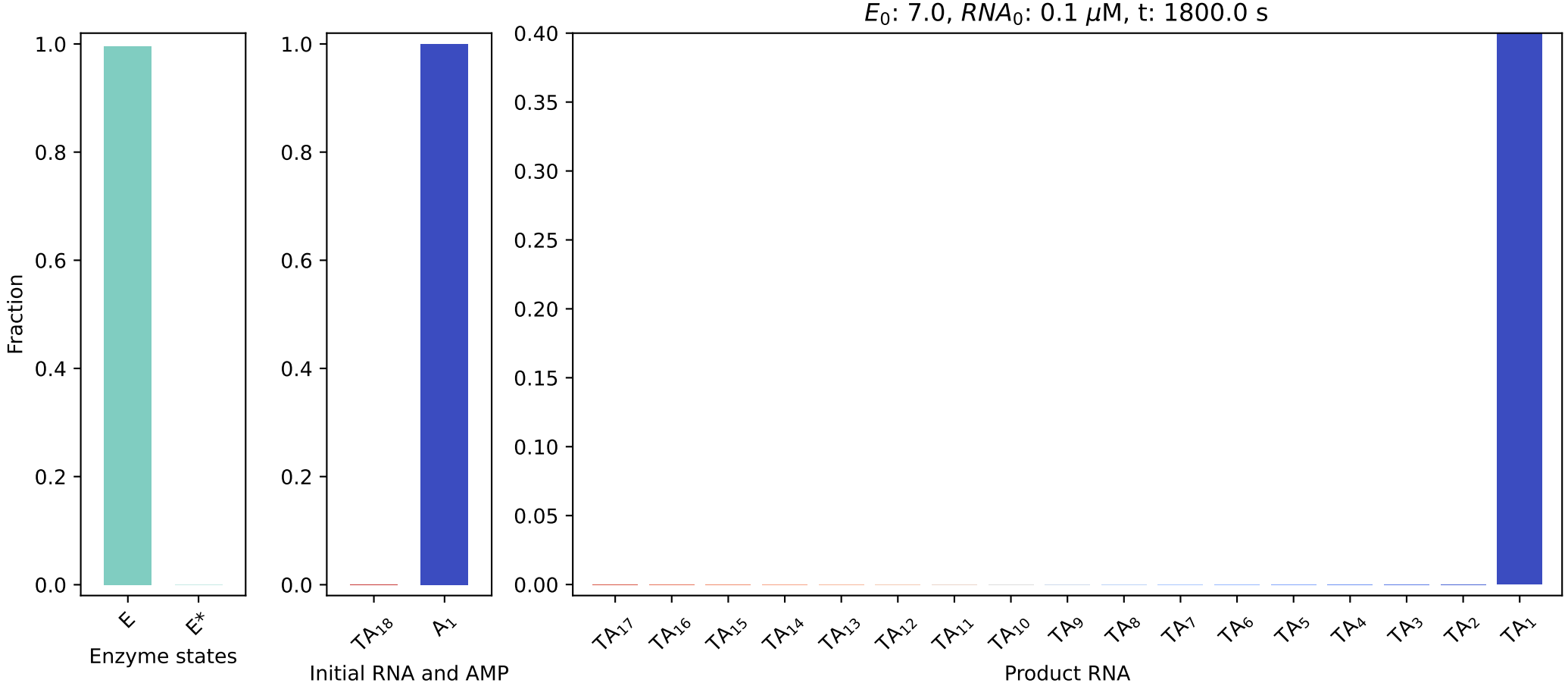
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Initial RNA and AMP
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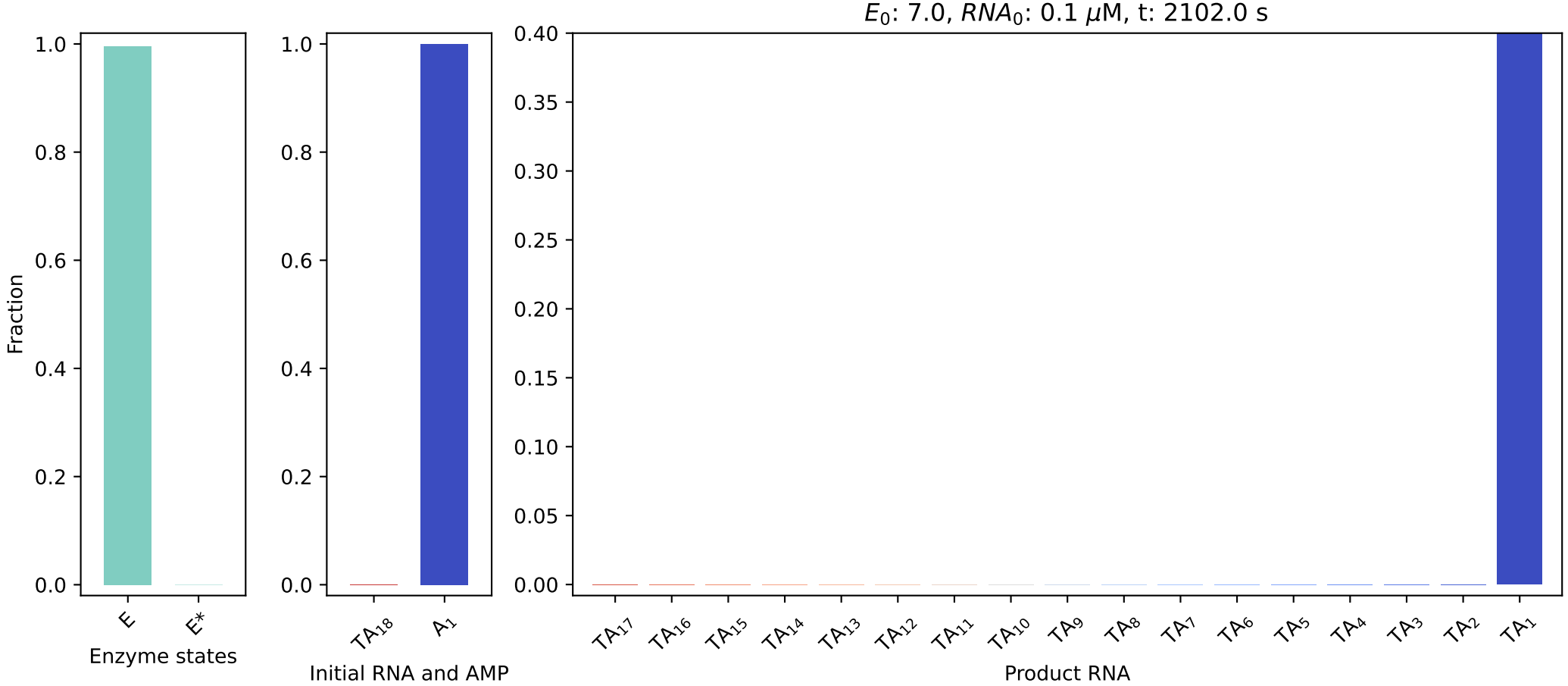
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A_1
Initial RNA and AMP
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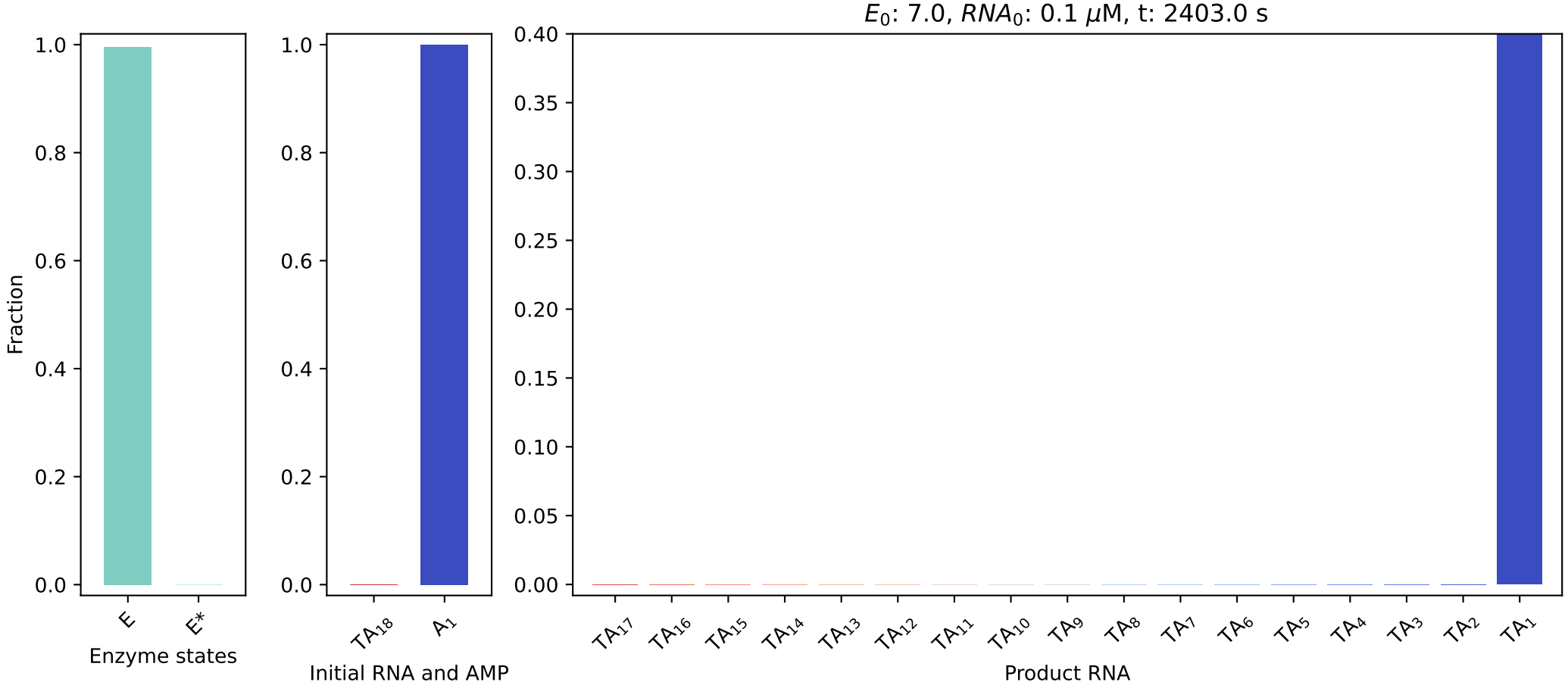
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A_1
Initial RNA and AMP
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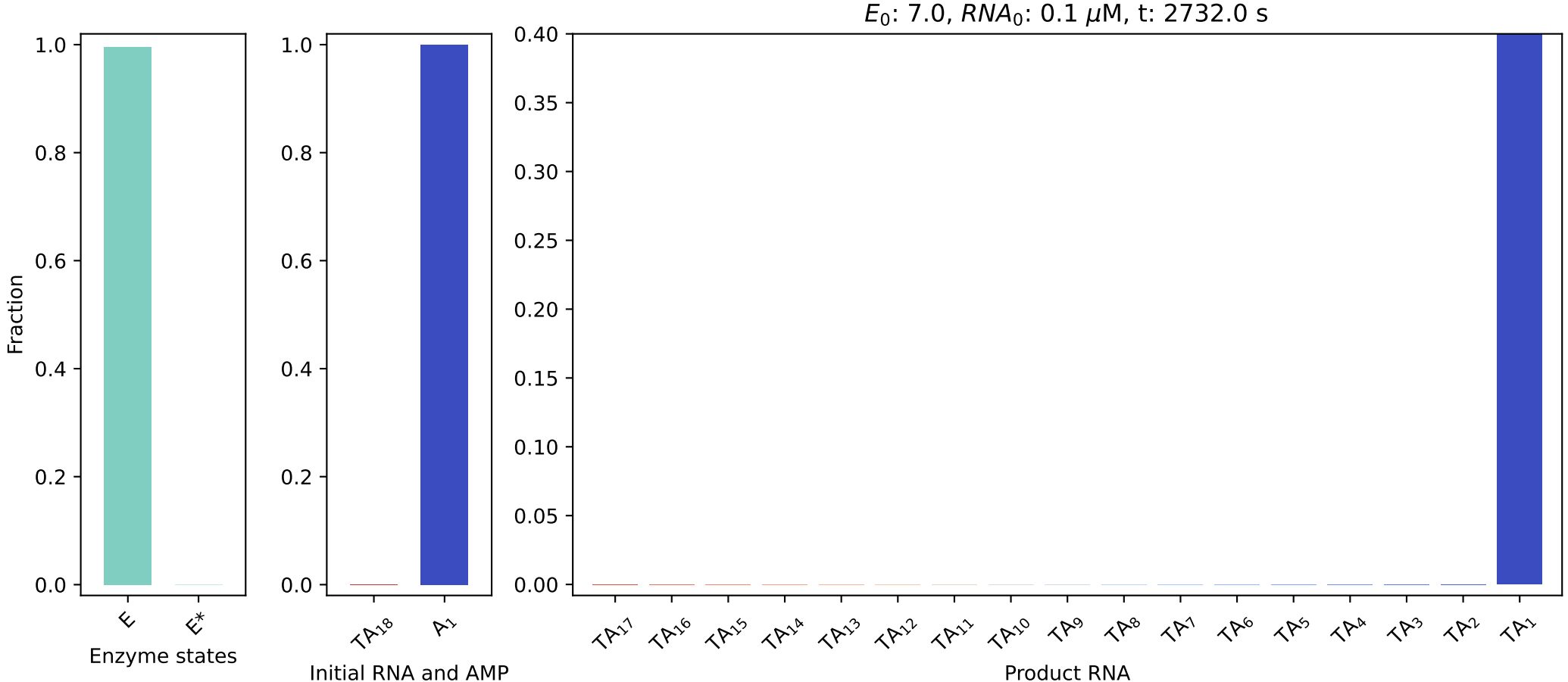
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Enzyme states
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Initial RNA and AMP
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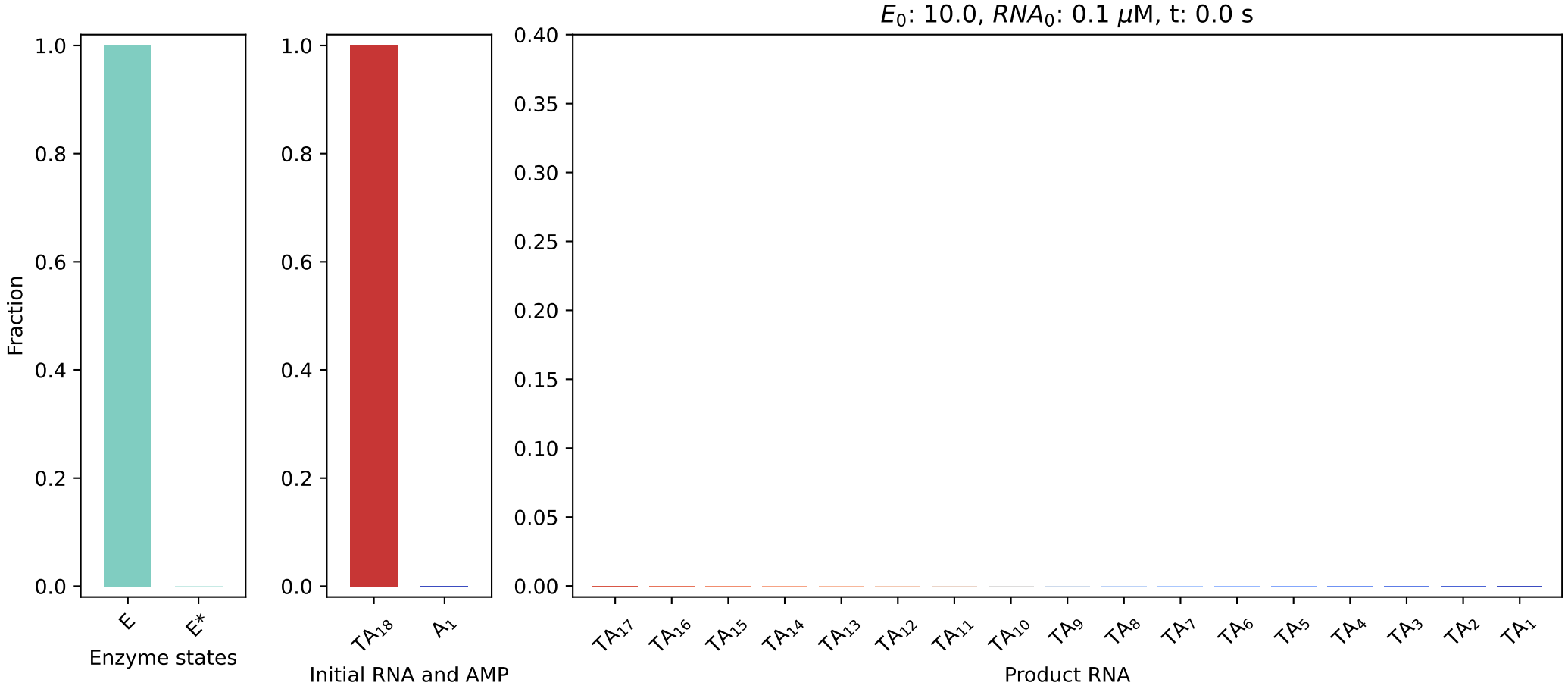
Product RNA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Initial RNA and AMP
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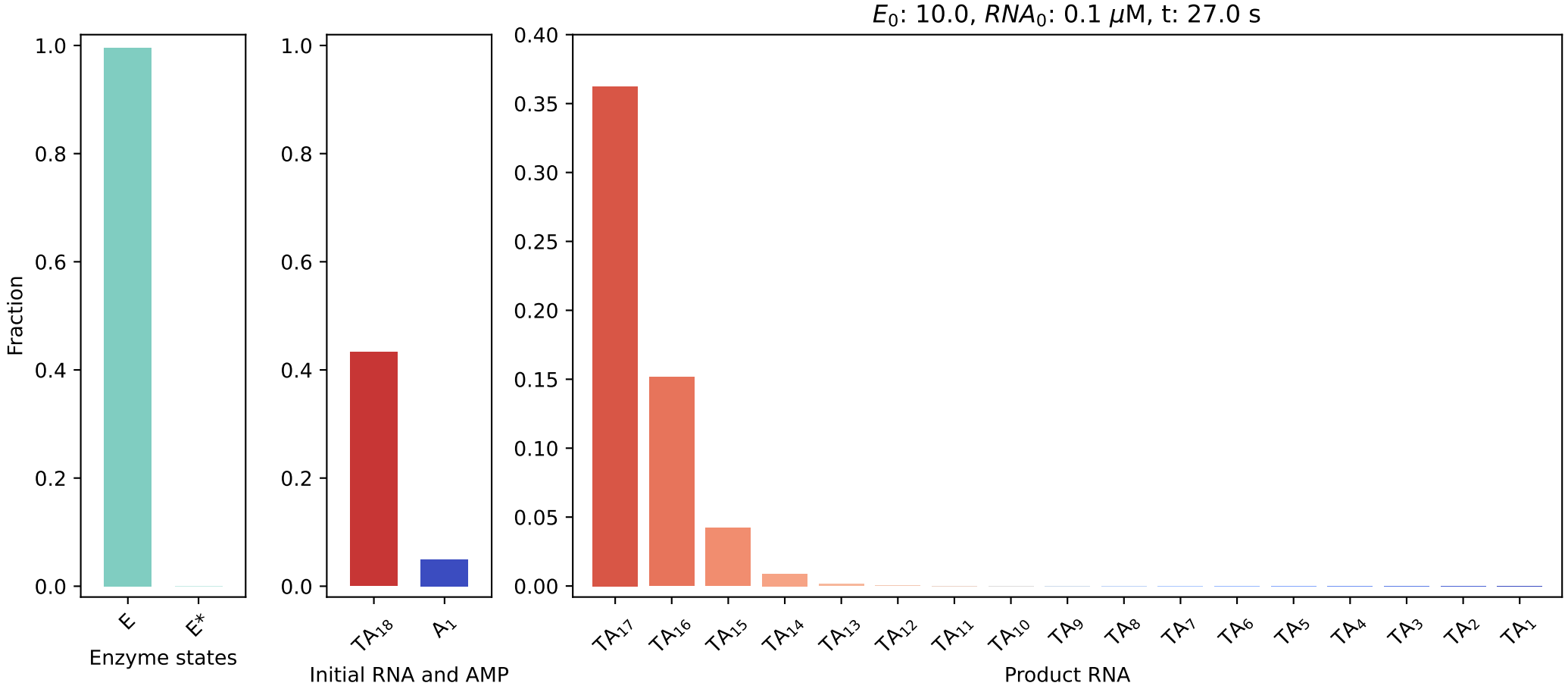
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Initial RNA and AMP
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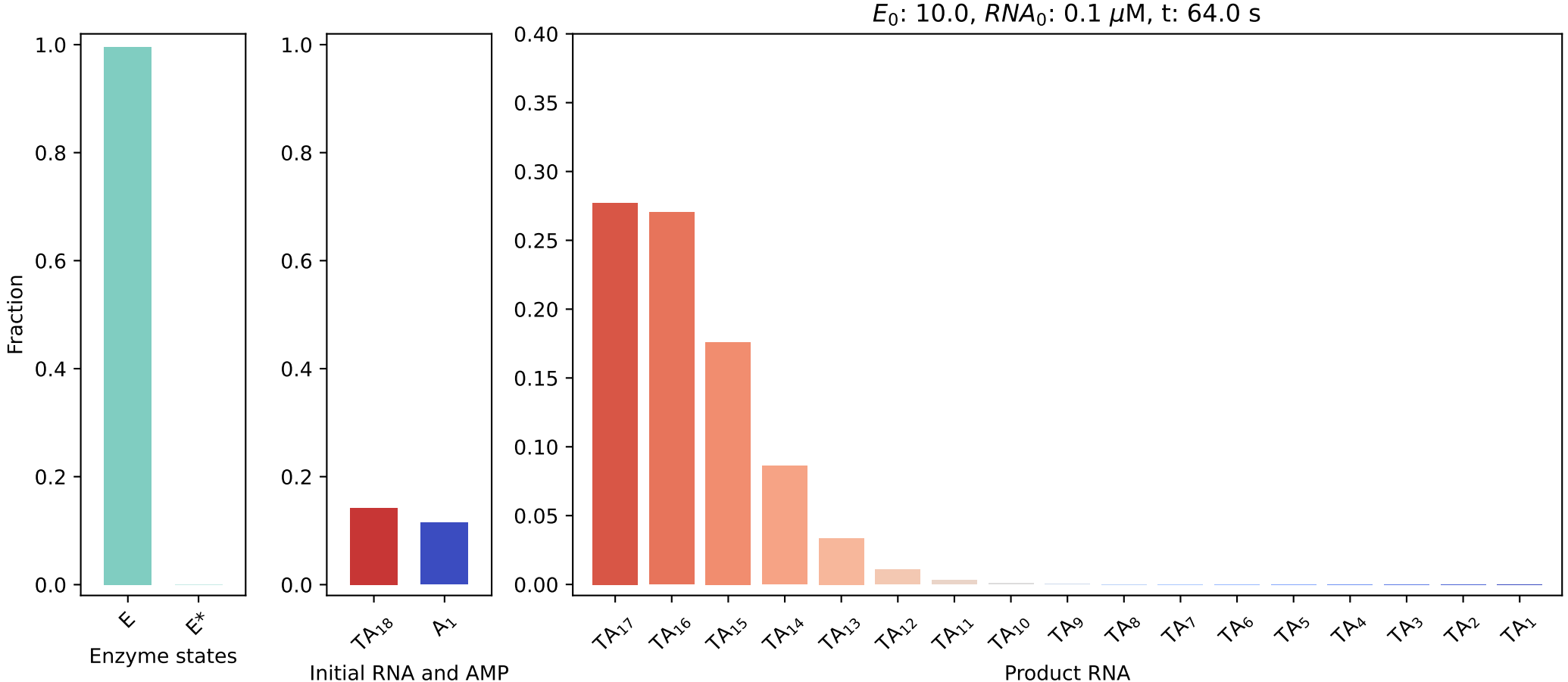
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Enzyme states
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Initial RNA and AMP
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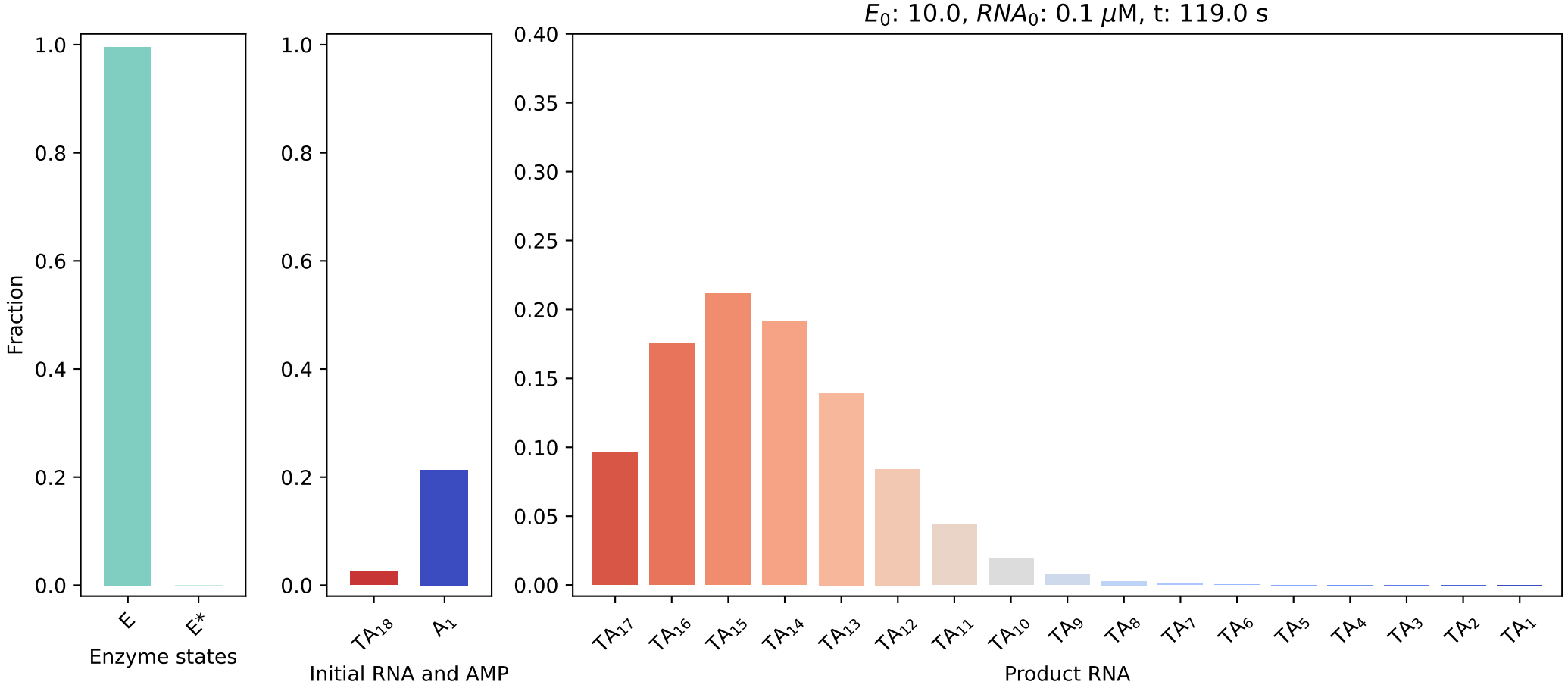
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Enzyme states
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A1
Initial RNA and AMP
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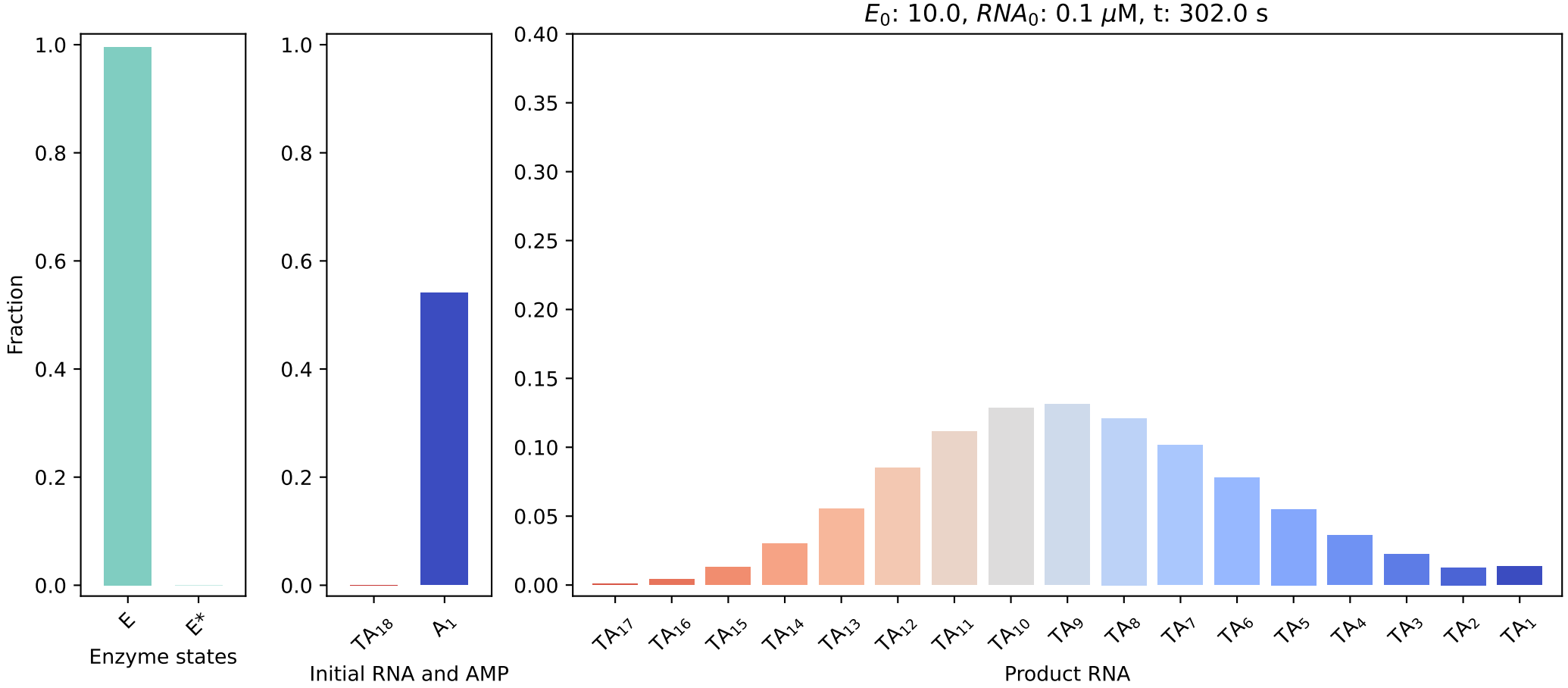
Product RNA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0.4
0.2
0.0
E
E*
Enzyme states
1.0
0.8
0.6
0.4
0.2
0.0
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
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TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
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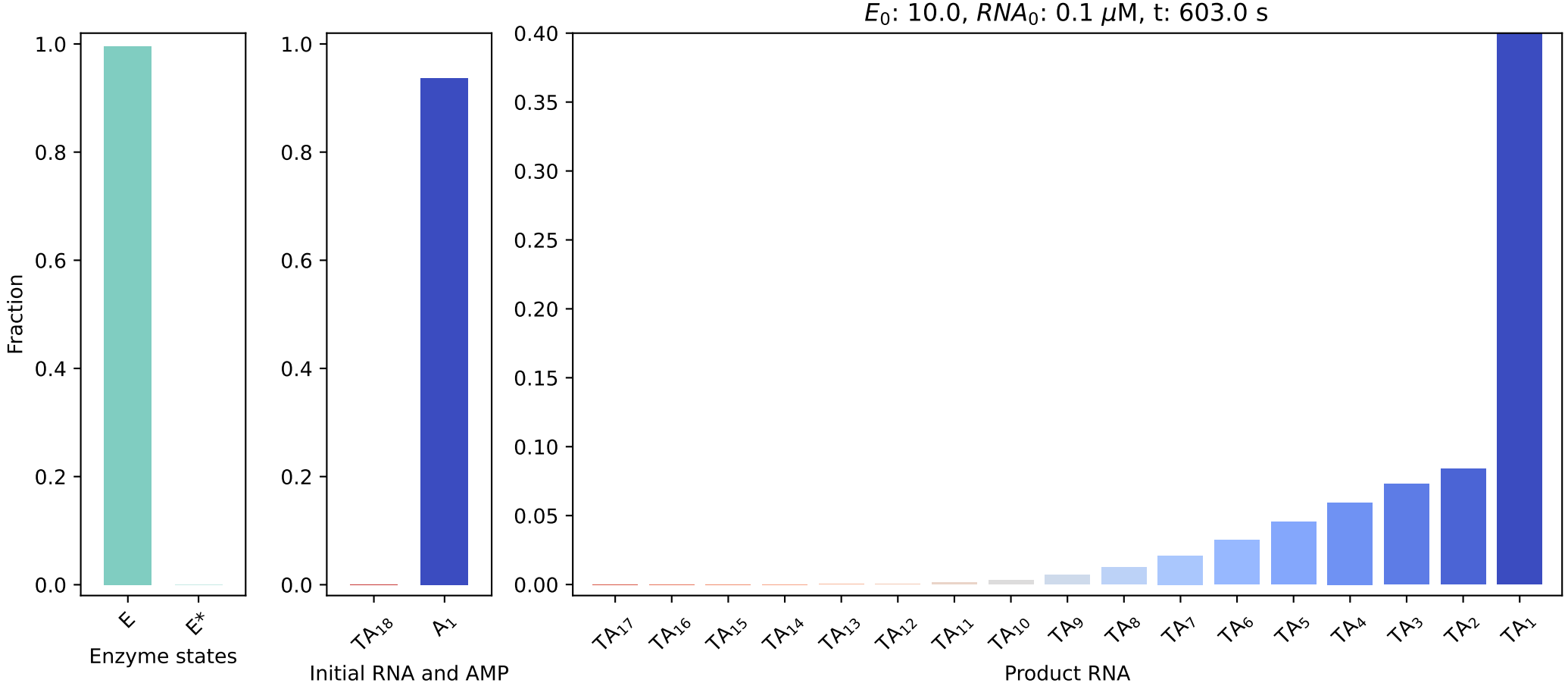
Product RNA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E*
Enzyme states
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A_1
Initial RNA and AMP
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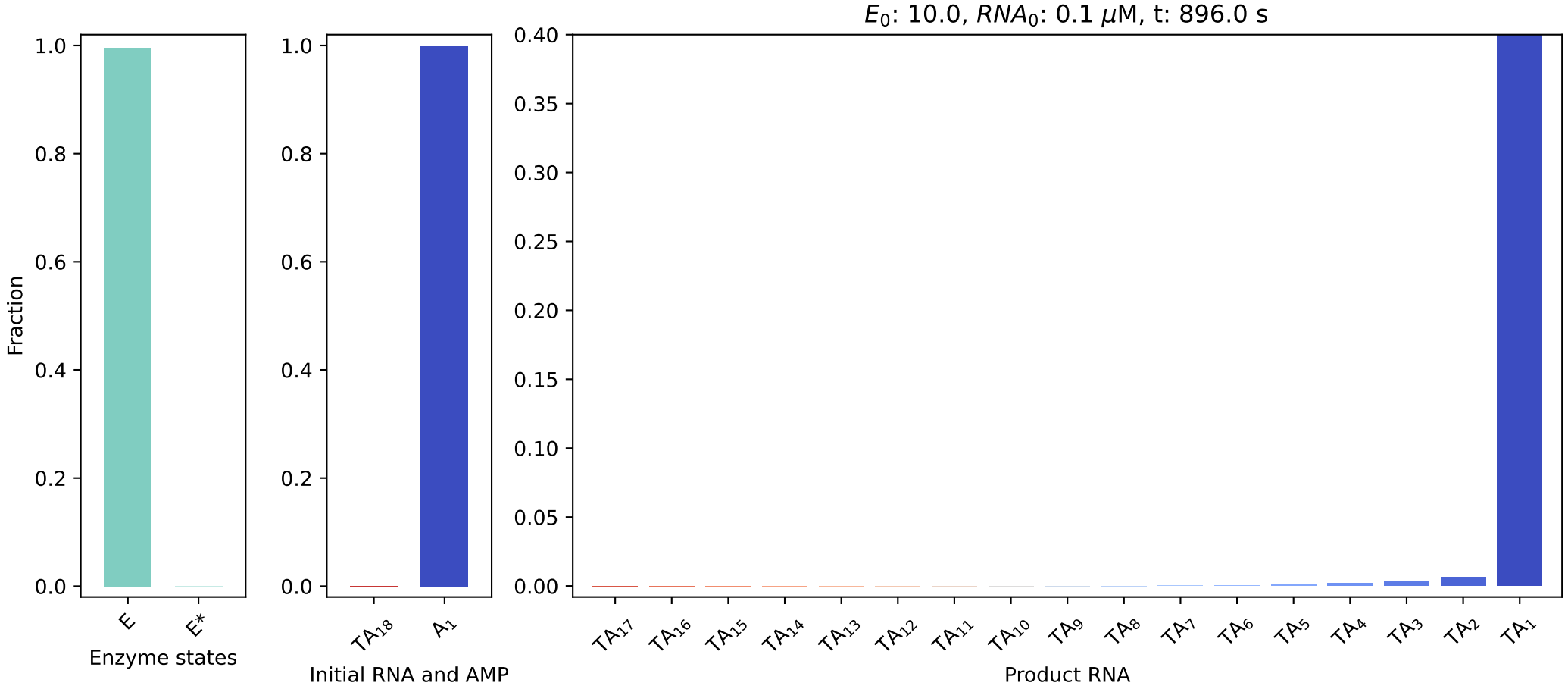
Product RNA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E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
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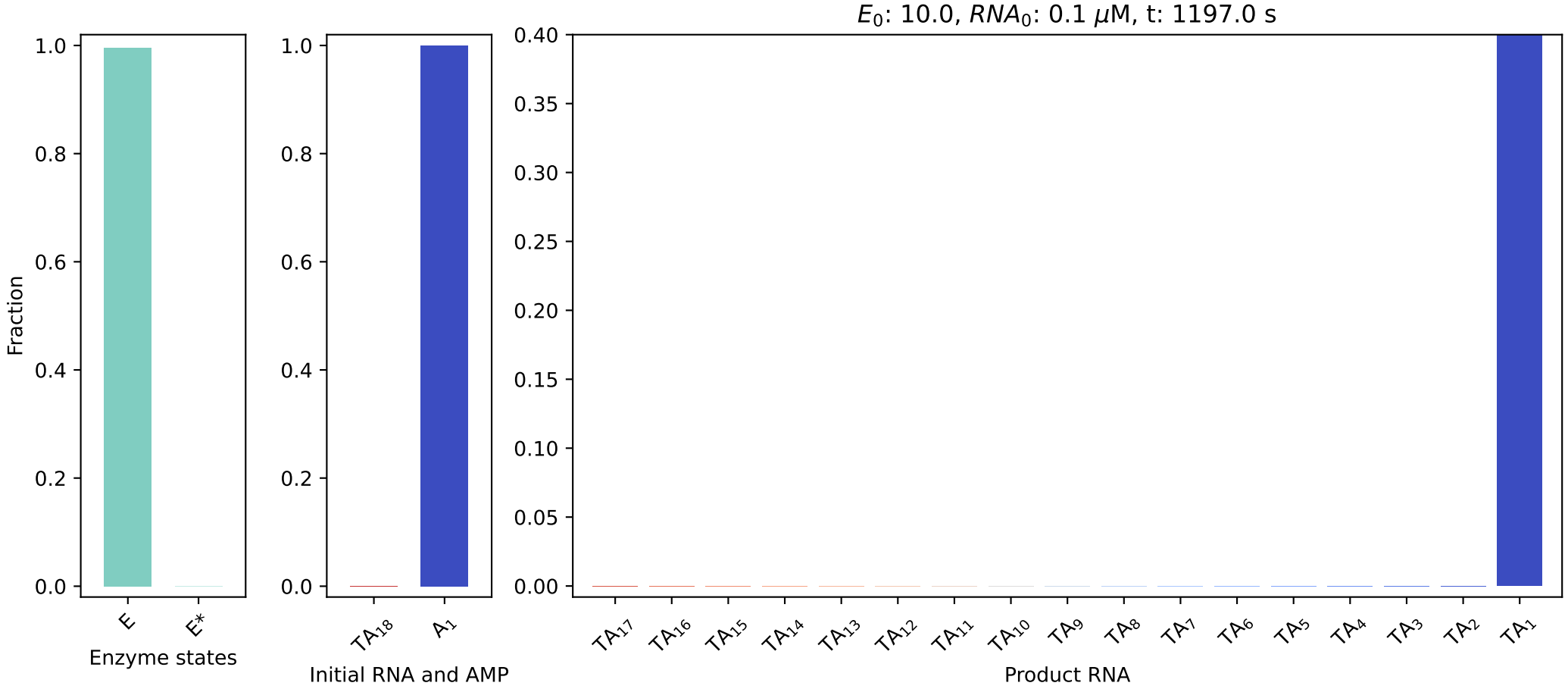
Product RNA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Enzyme states
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0.15
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TA17
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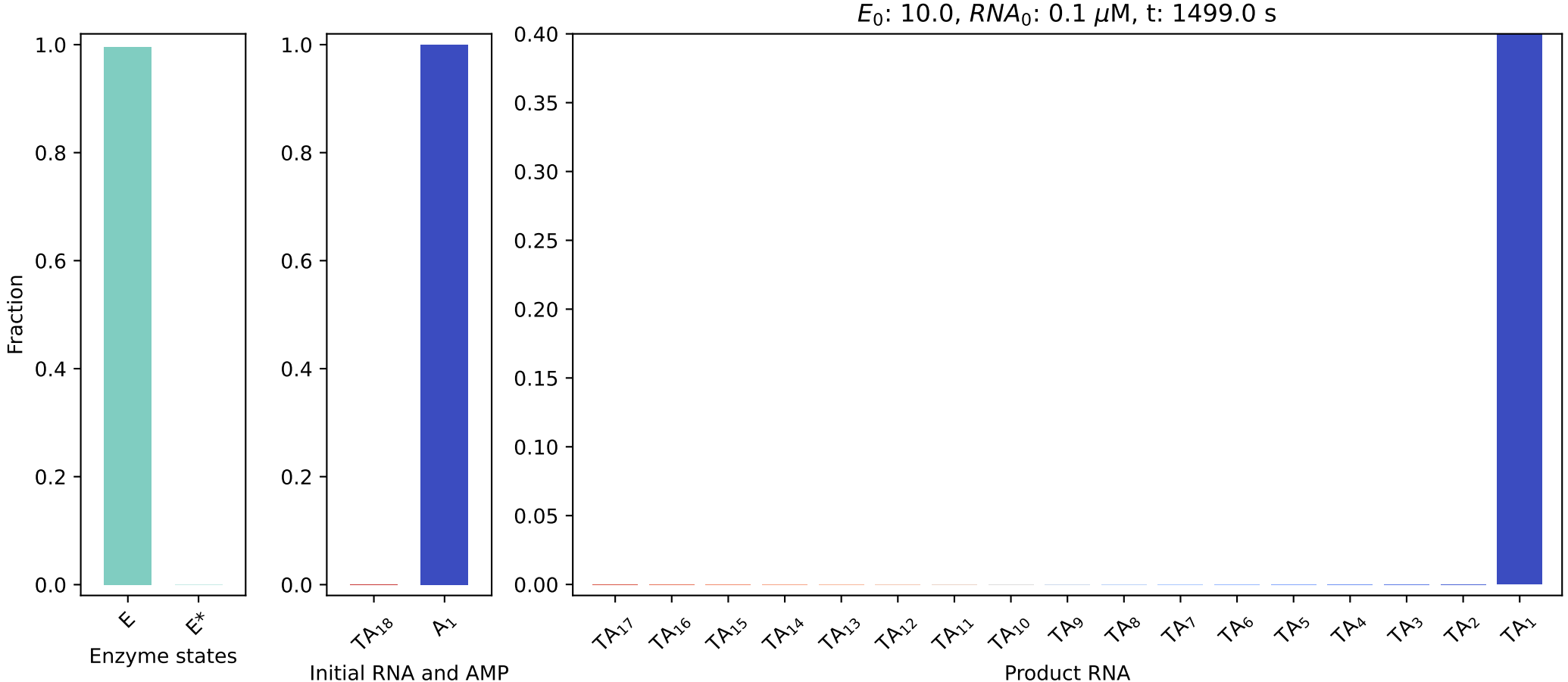
Product RNA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Enzyme states
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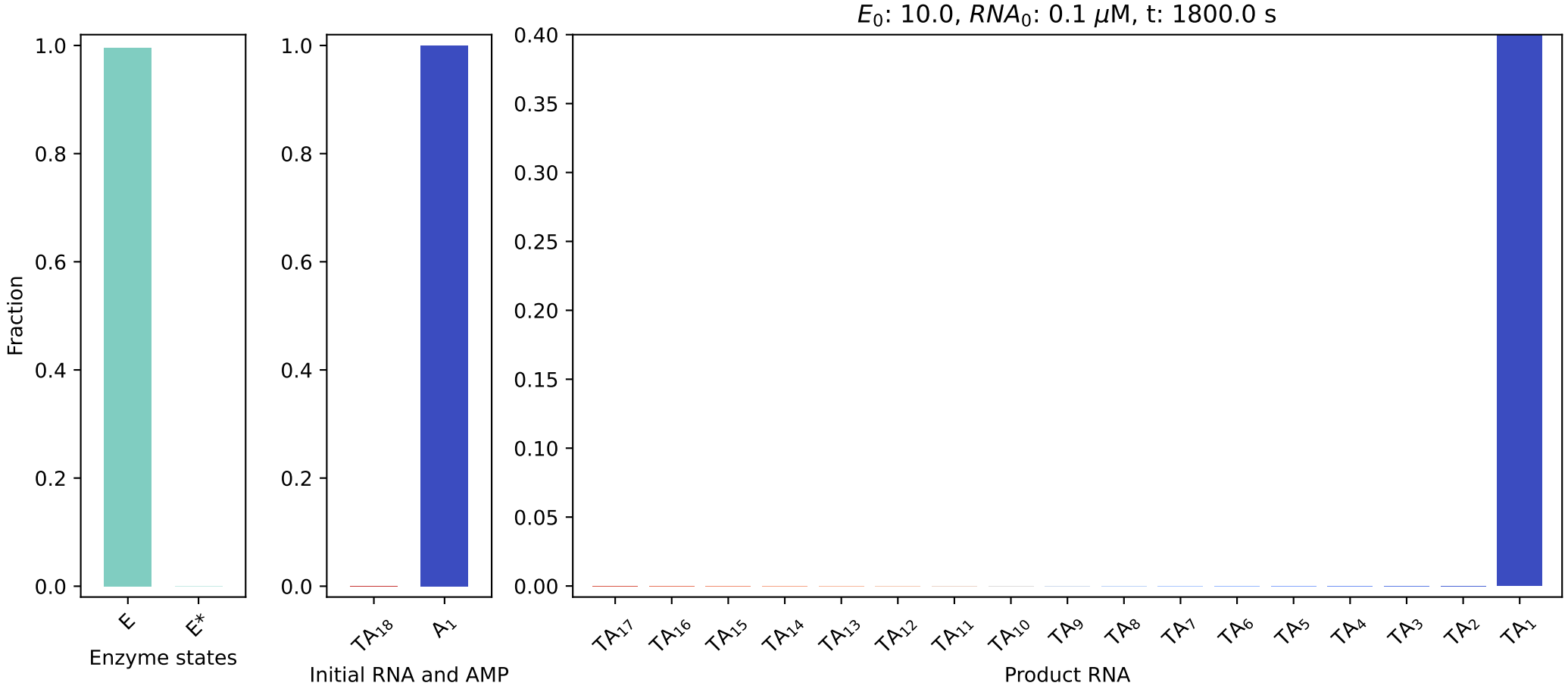
Product RNA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Enzyme states
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A_1
Initial RNA and AMP
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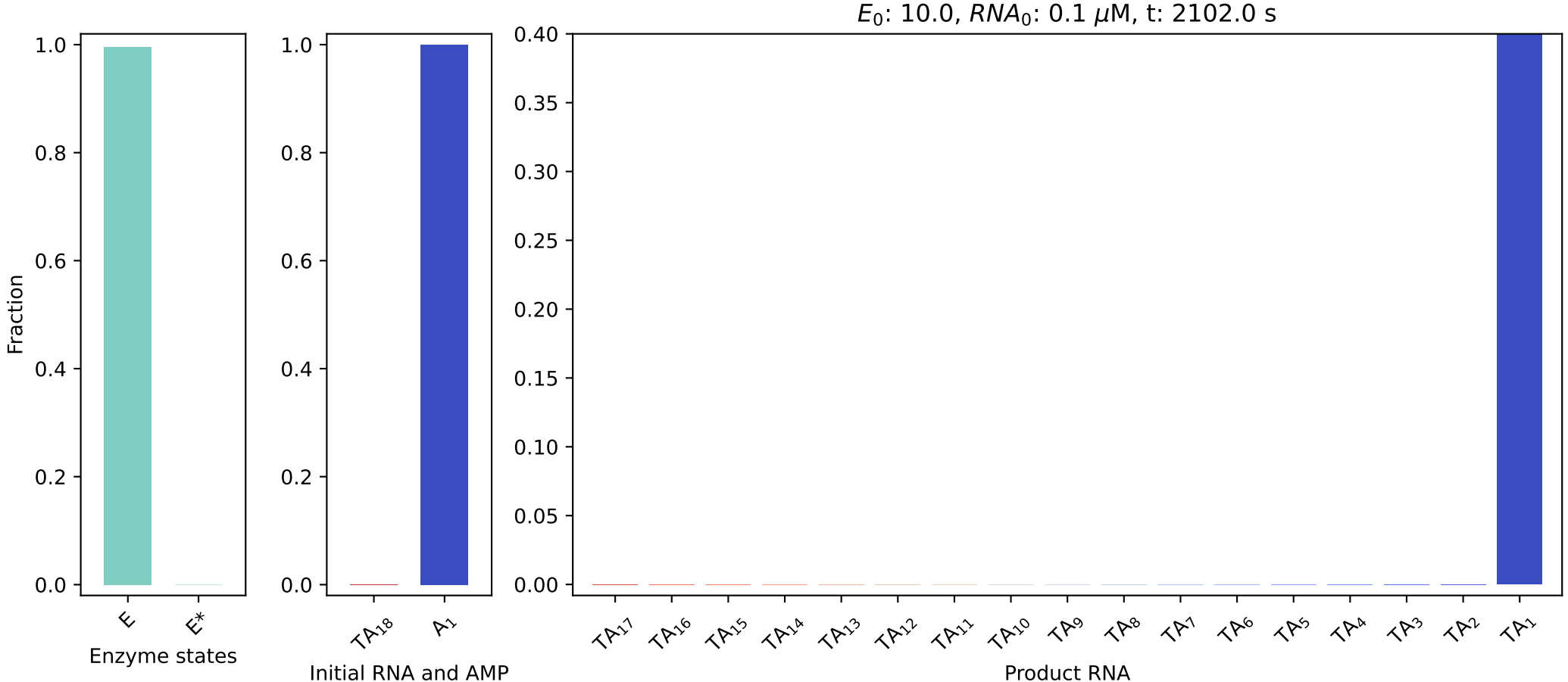
Product RNA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Enzyme states
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TA15
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TA7
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TA5
TA4
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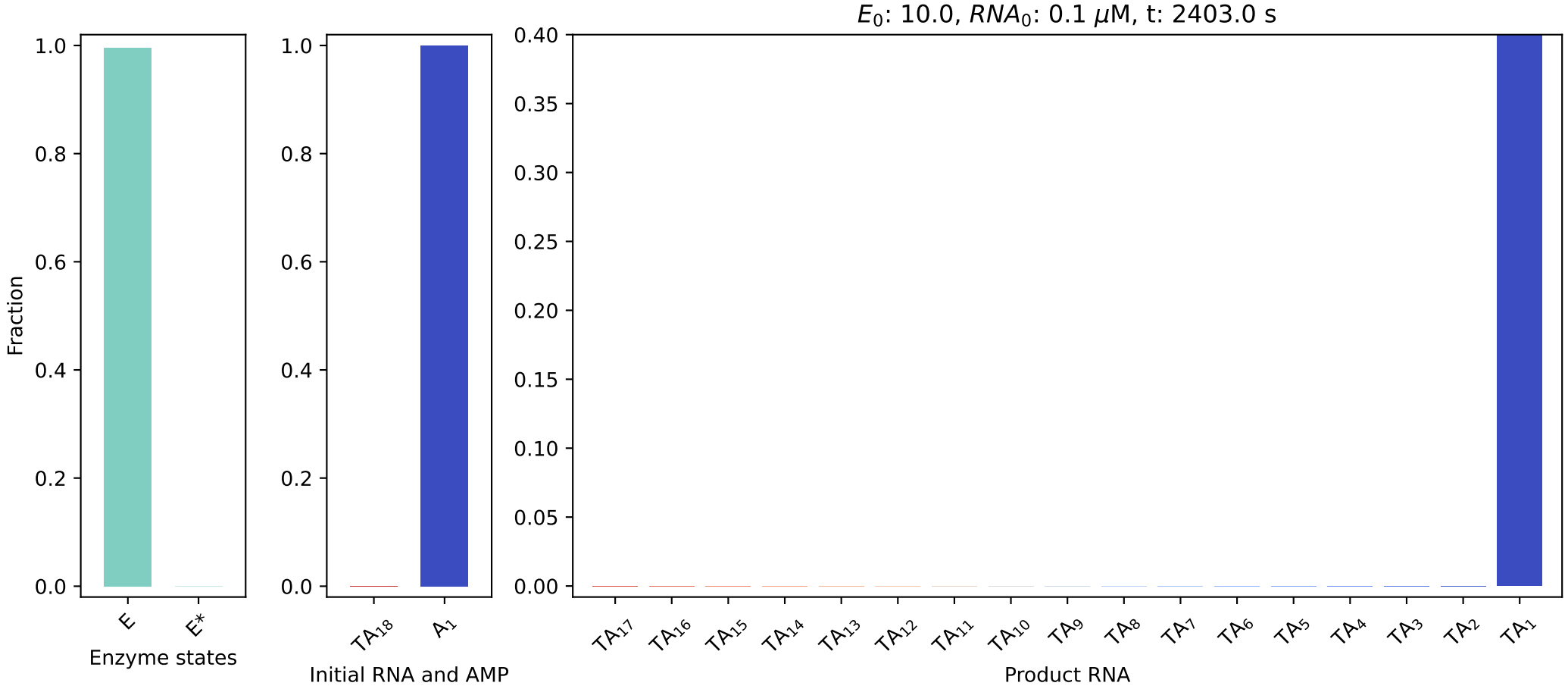
TA2
TA1
Product RNA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E
E*
Enzyme states
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A1
Initial RNA and AMP
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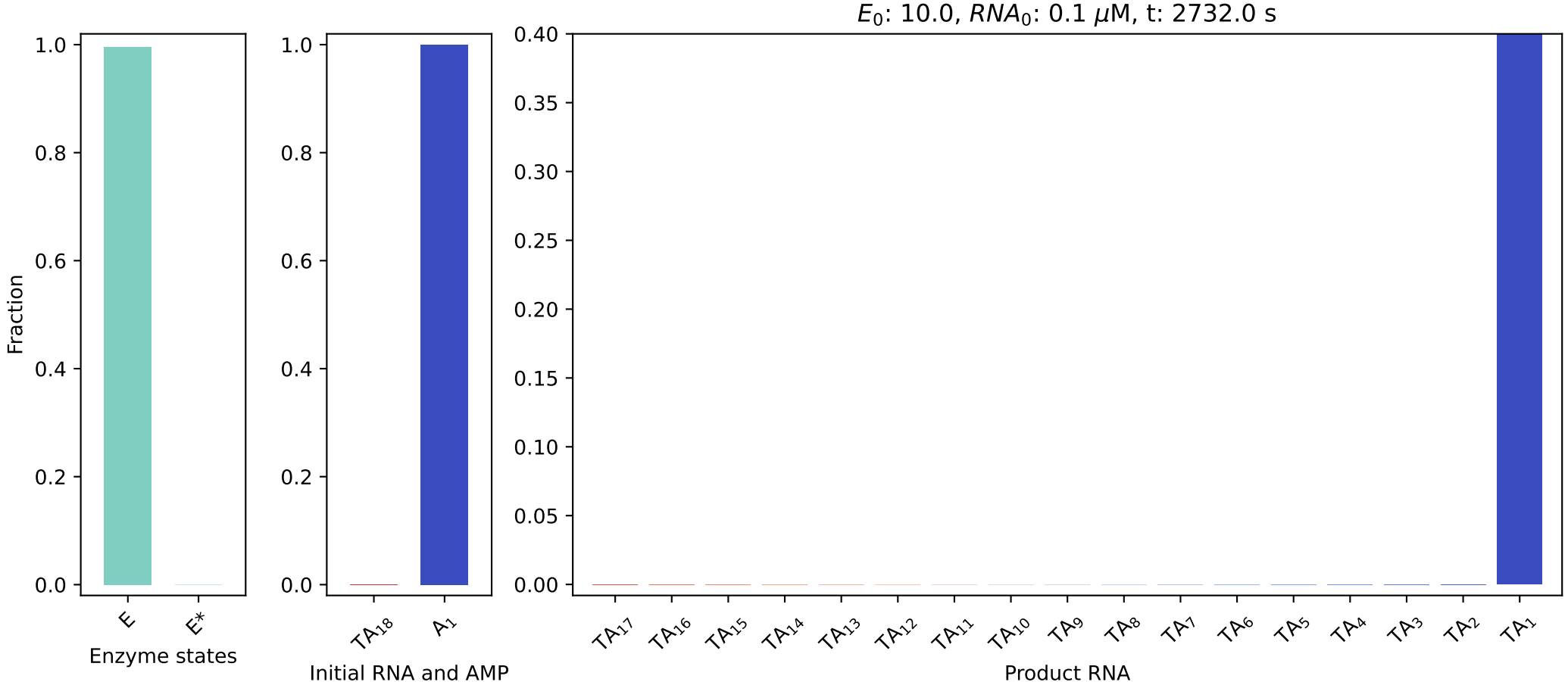
TA2
TA1
Product RNA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Enzyme states
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Initial RNA and AMP
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0.30
0.25
0.20
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0.05
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TA17
TA16
TA15
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TA7
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TA4
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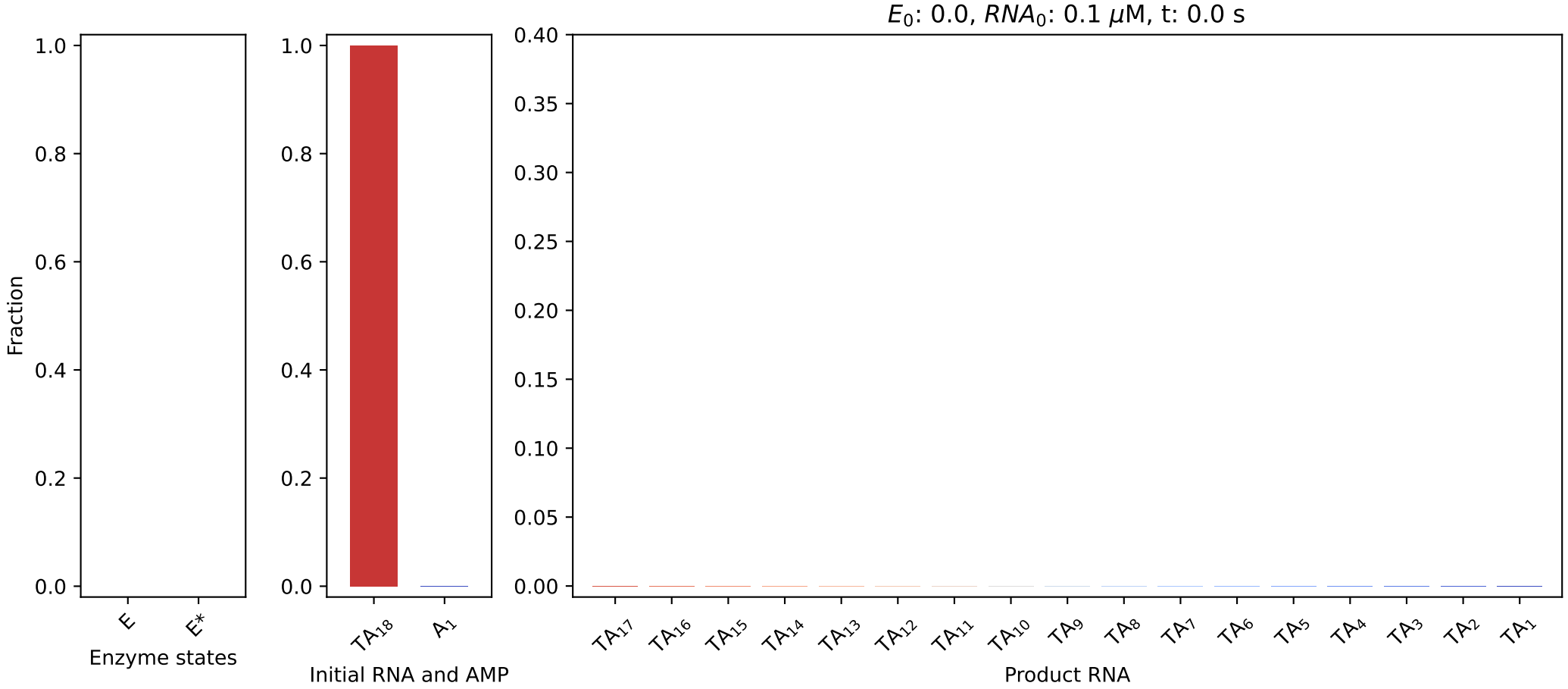
Product RNA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E
E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
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0.35
0.30
0.25
0.20
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TA_{14}
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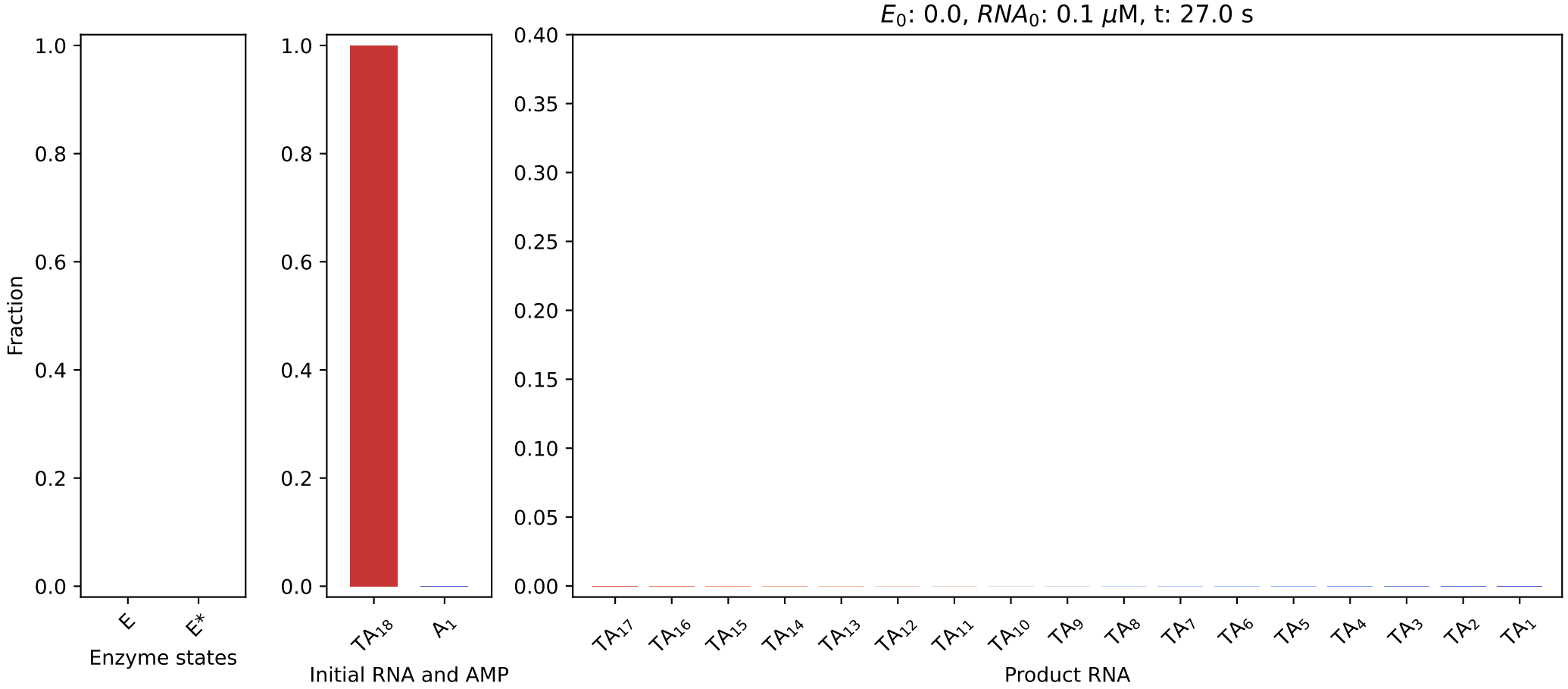
Product RNA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E*
Enzyme states
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TA_{18}
A_1
Initial RNA and AMP
0.40
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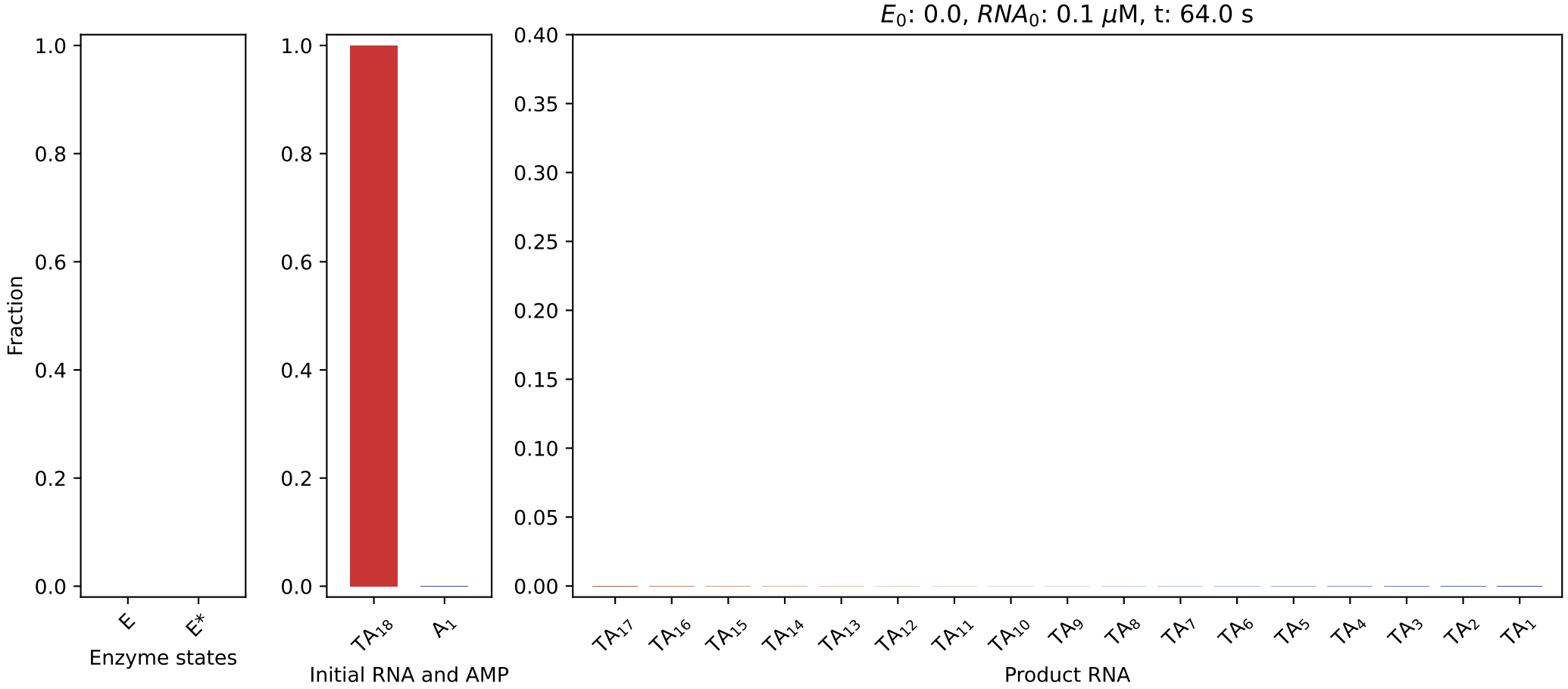
Product RNA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E*
Enzyme states
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Initial RNA and AMP
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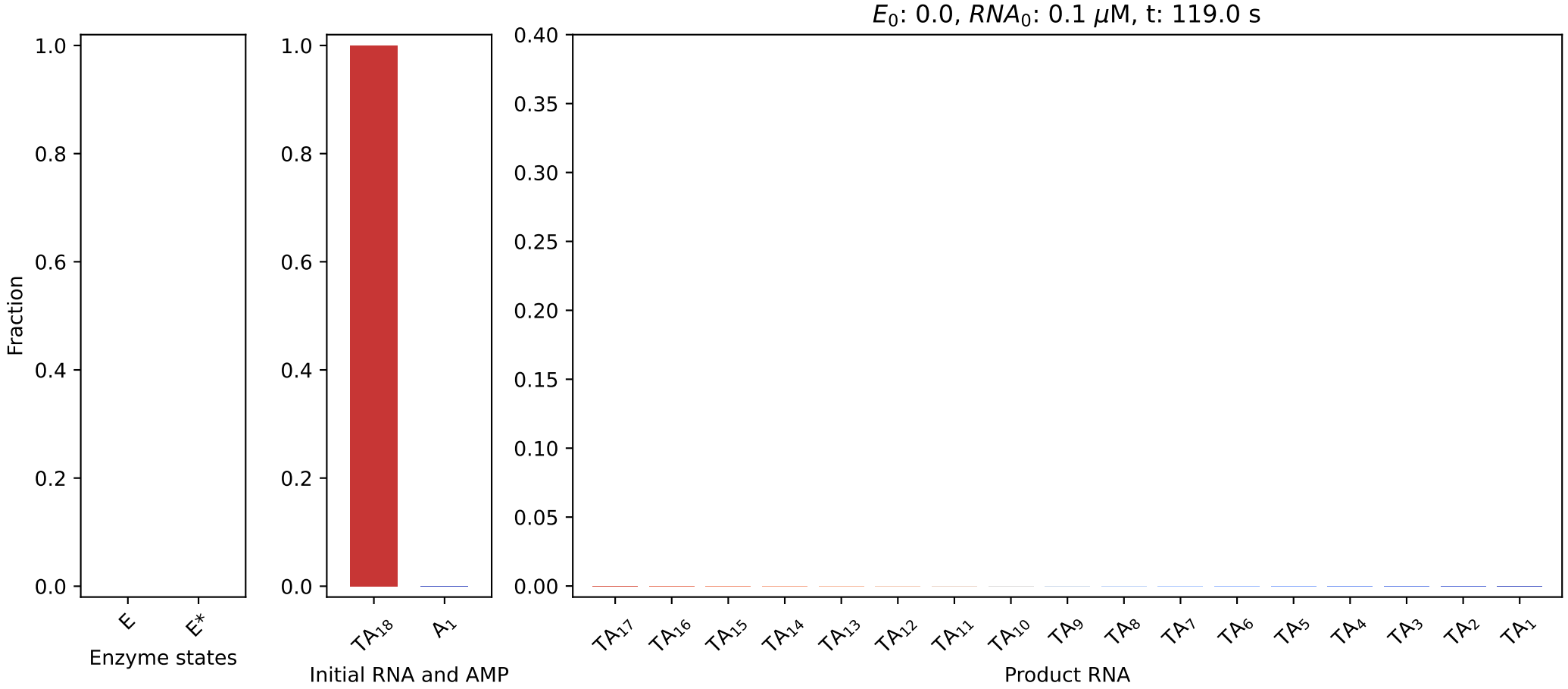
Product RNA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A_1
Initial RNA and AMP
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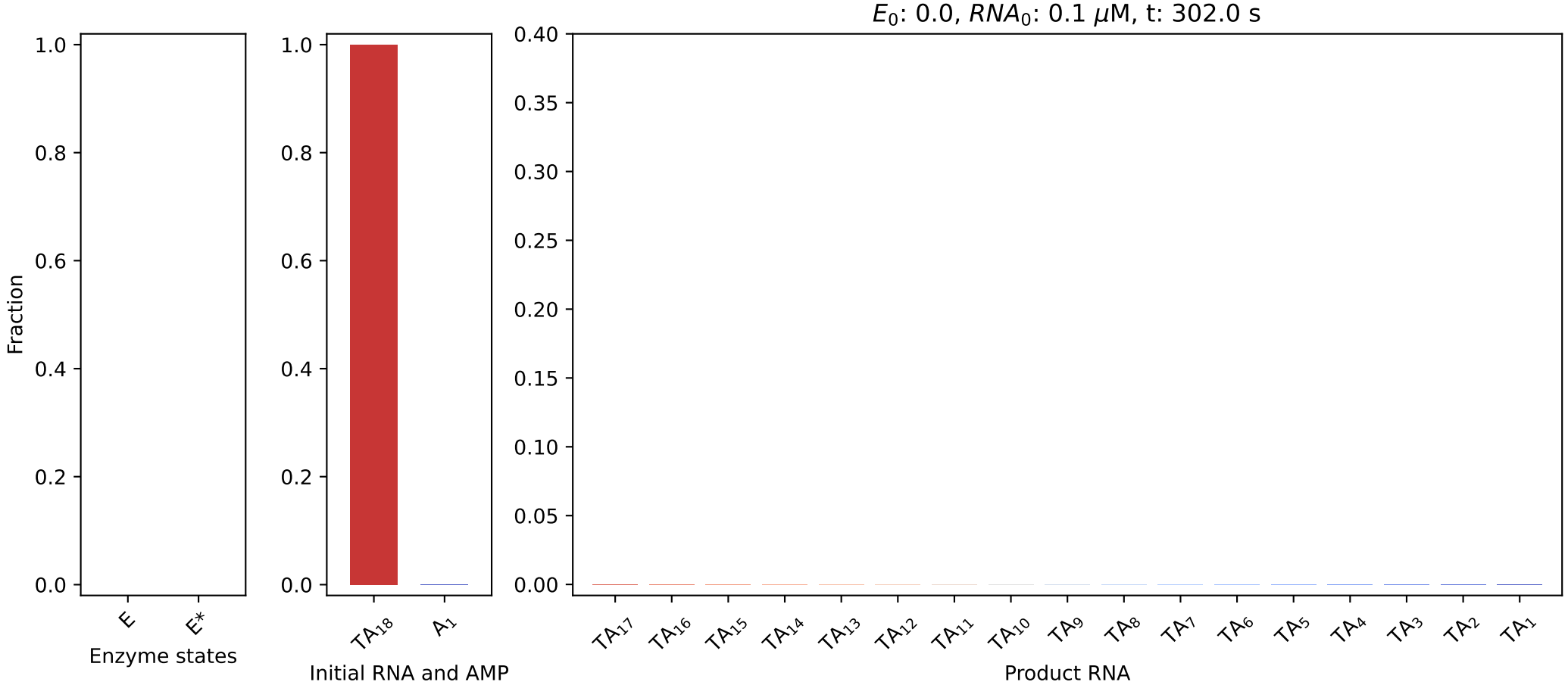
Product RNA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Initial RNA and AMP
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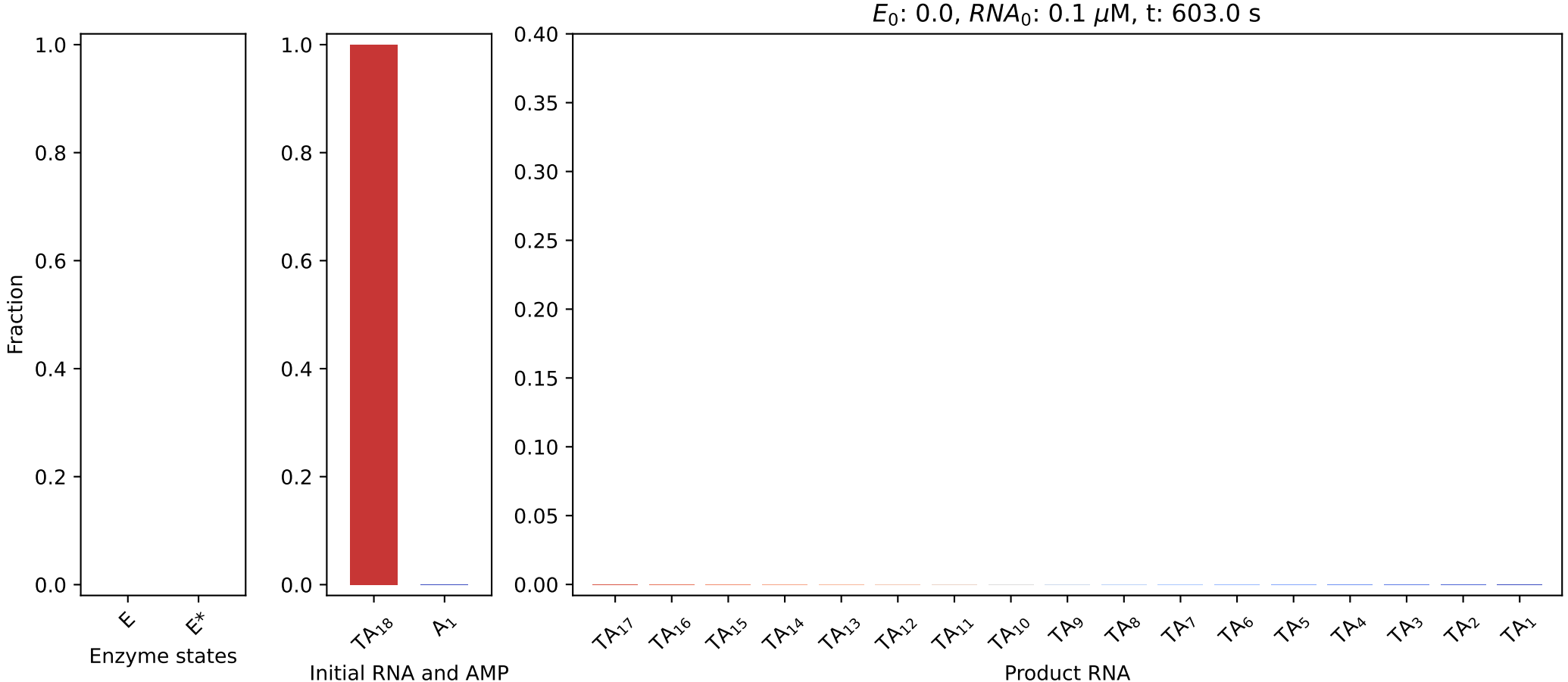
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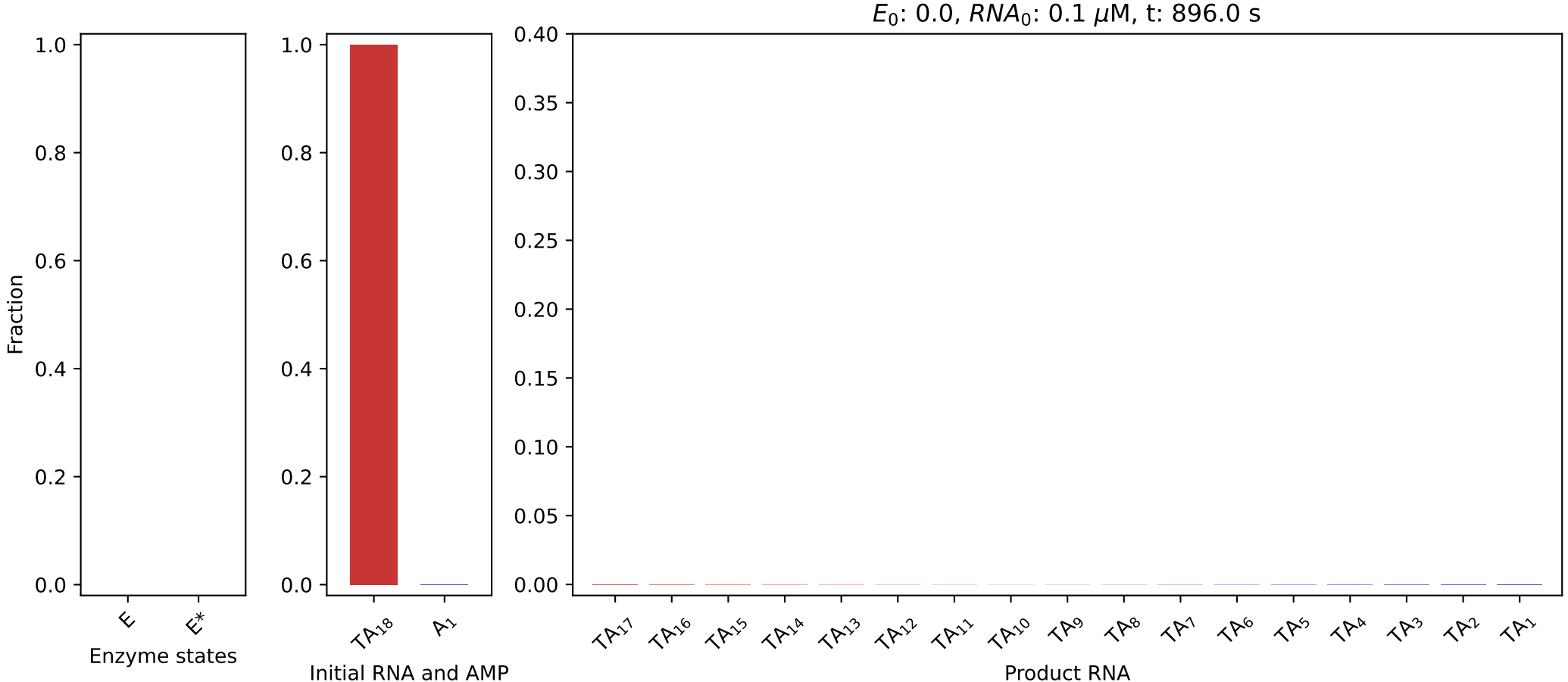
Product RNA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Enzyme states
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A_1
Initial RNA and AMP
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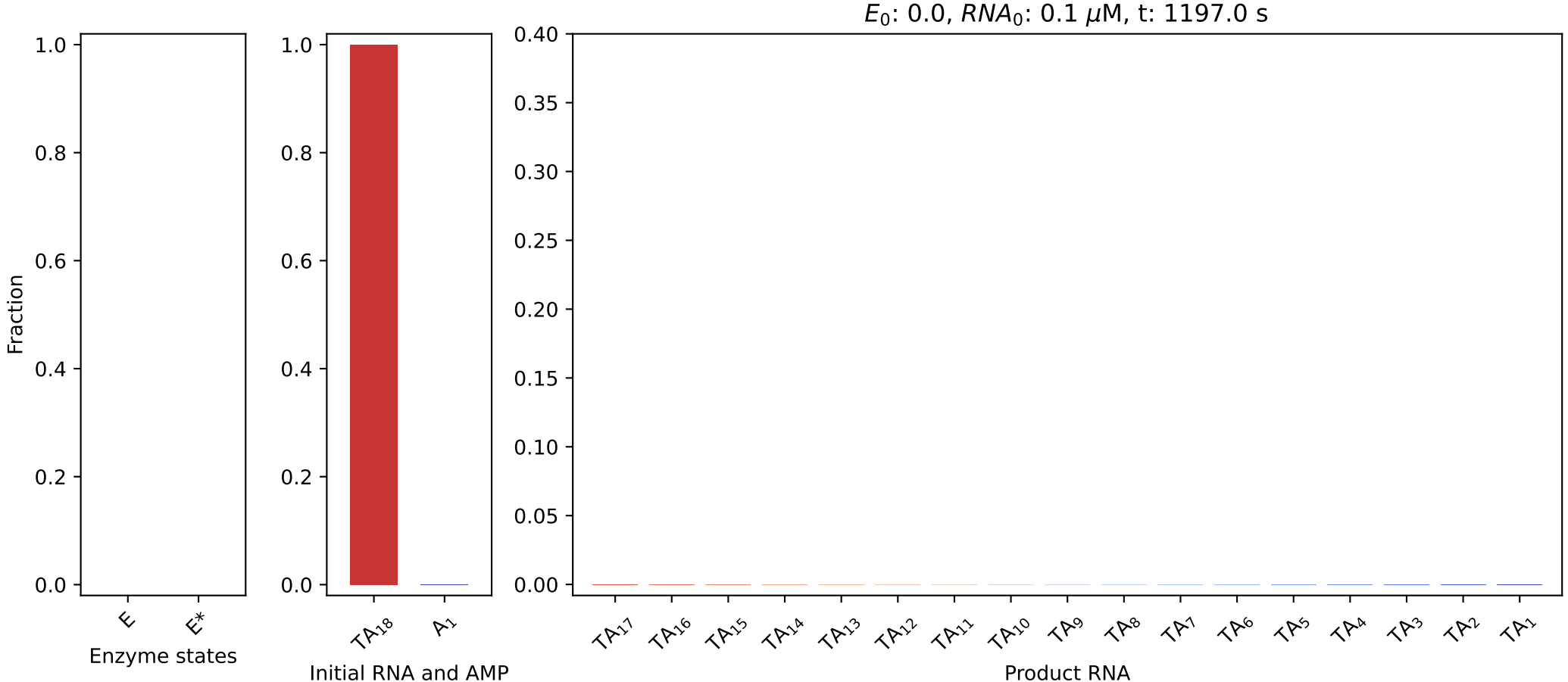
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Enzyme states
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A_1
Initial RNA and AMP
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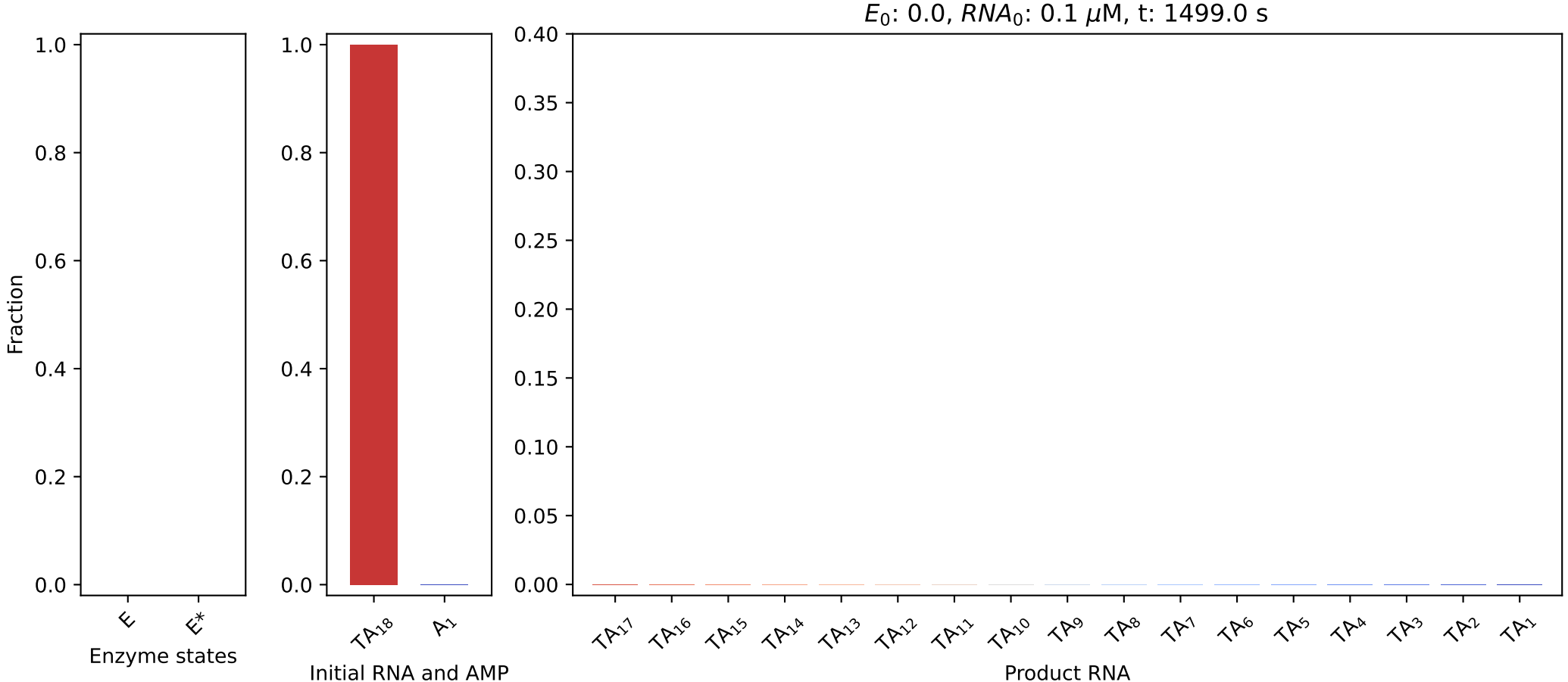
Product RNA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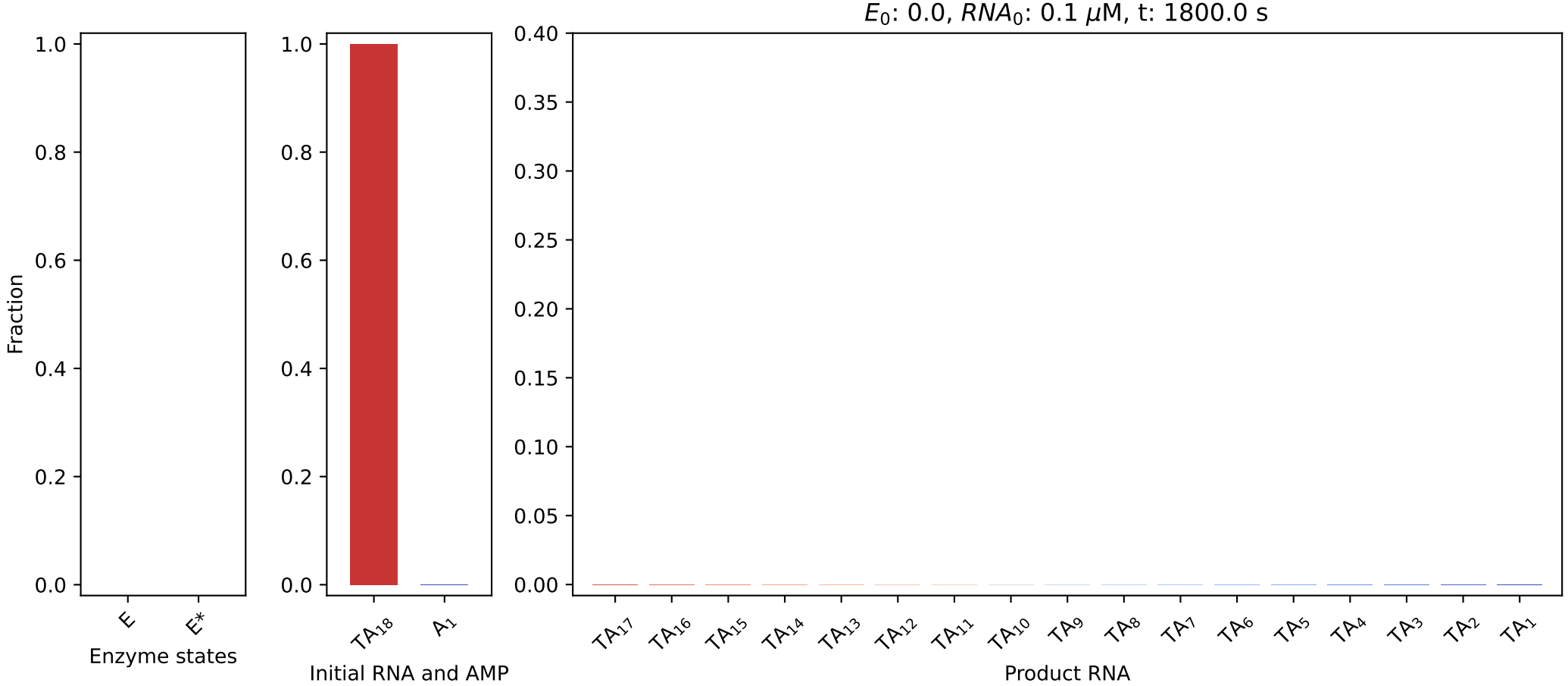
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Enzyme states
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A_1
Initial RNA and AMP
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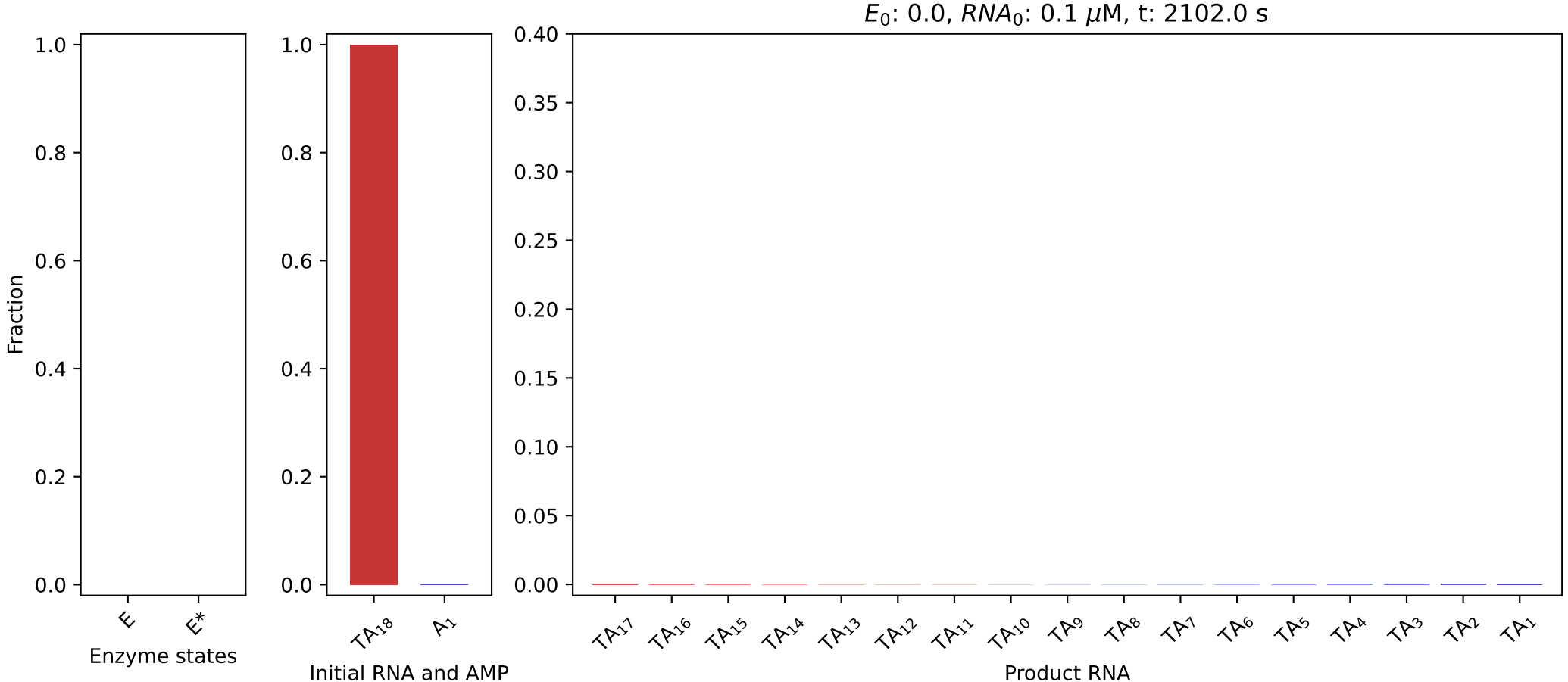
Product RNA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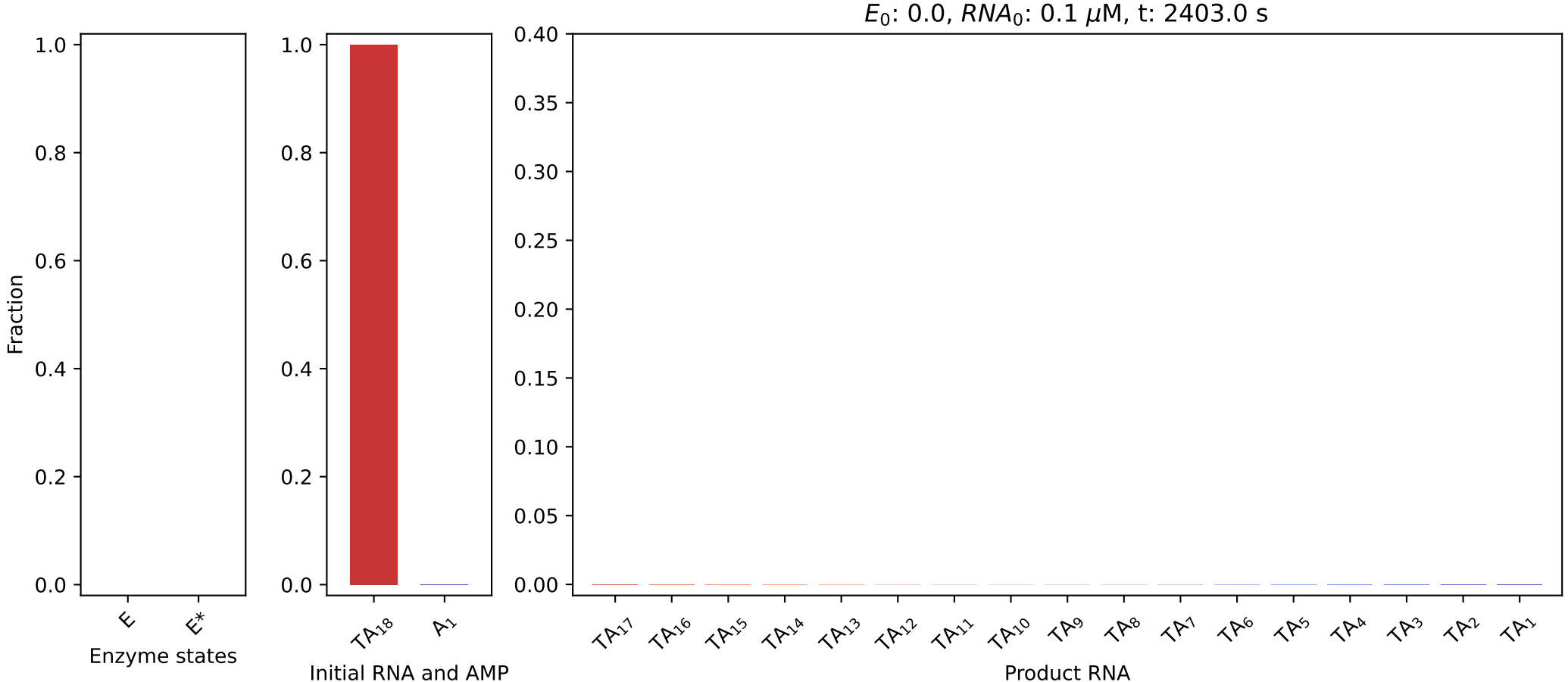
Product RNA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Enzyme states
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A_1
Initial RNA and AMP
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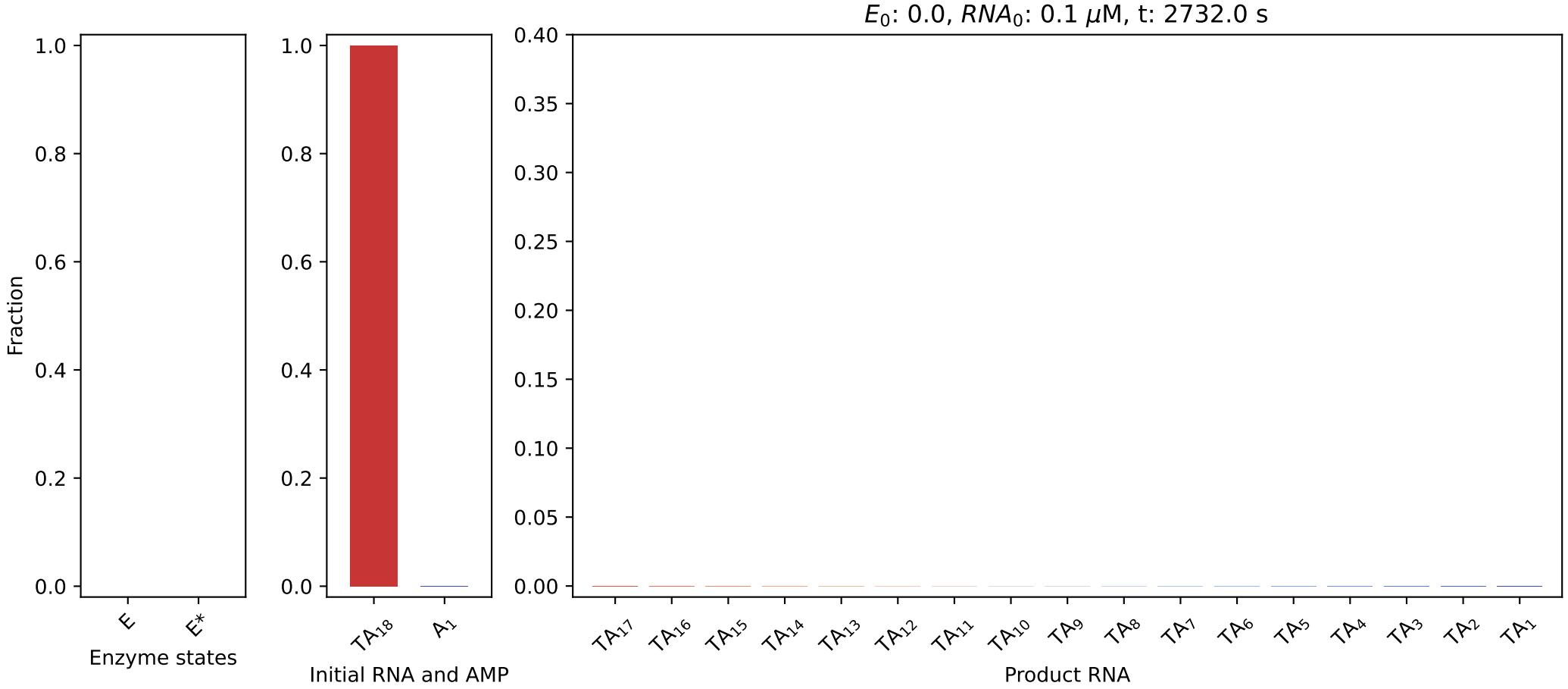
Product RNA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E*
Enzyme states
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0.0
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A_1
Initial RNA and AMP
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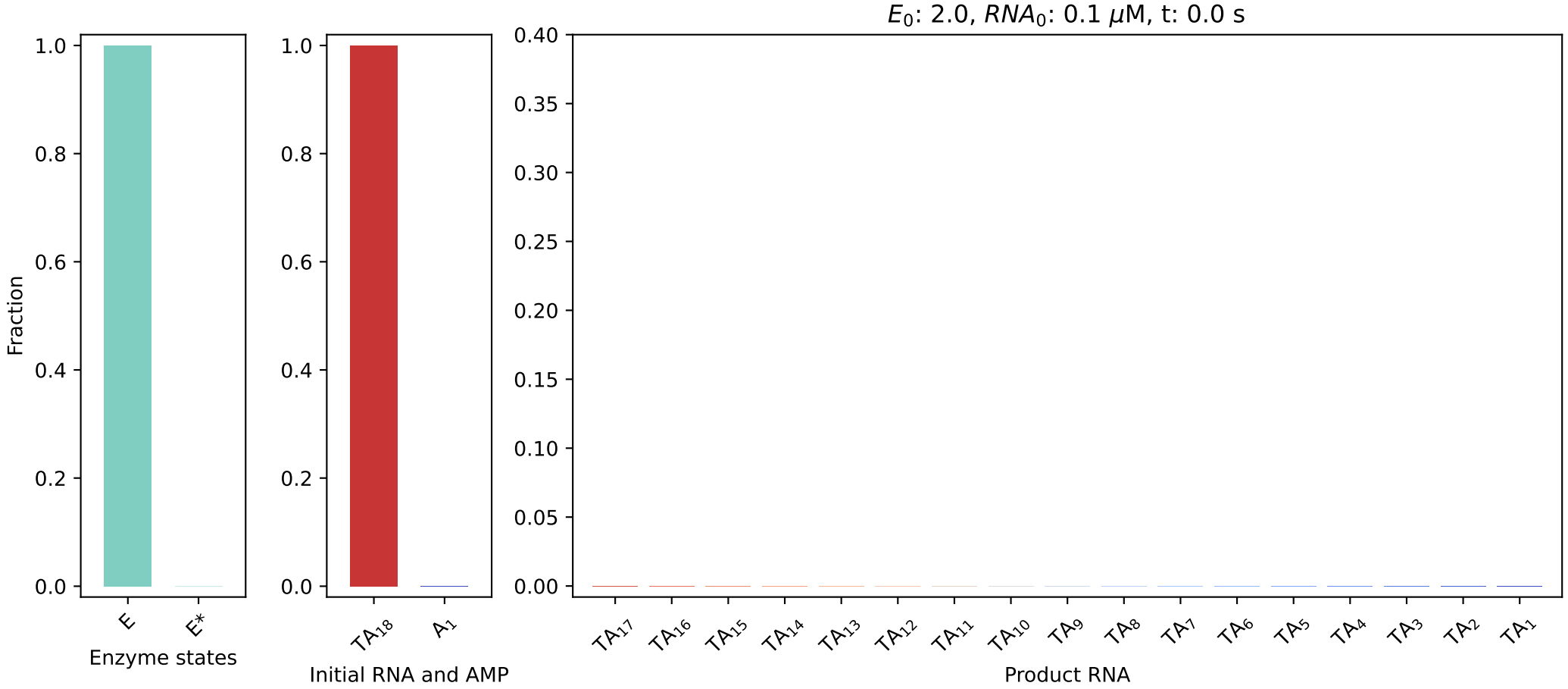
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Enzyme states
TA18
A1
Initial RNA and AMP
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TA17
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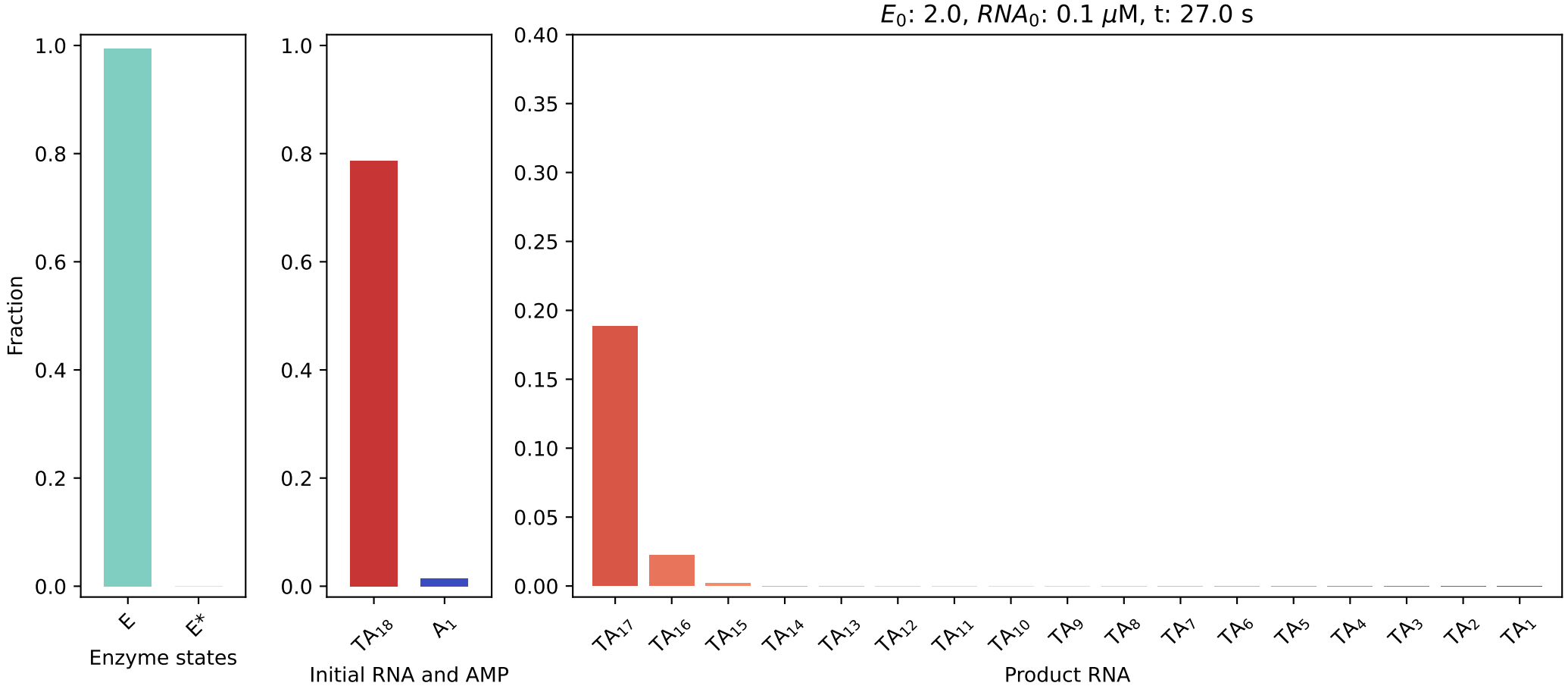
Product RNA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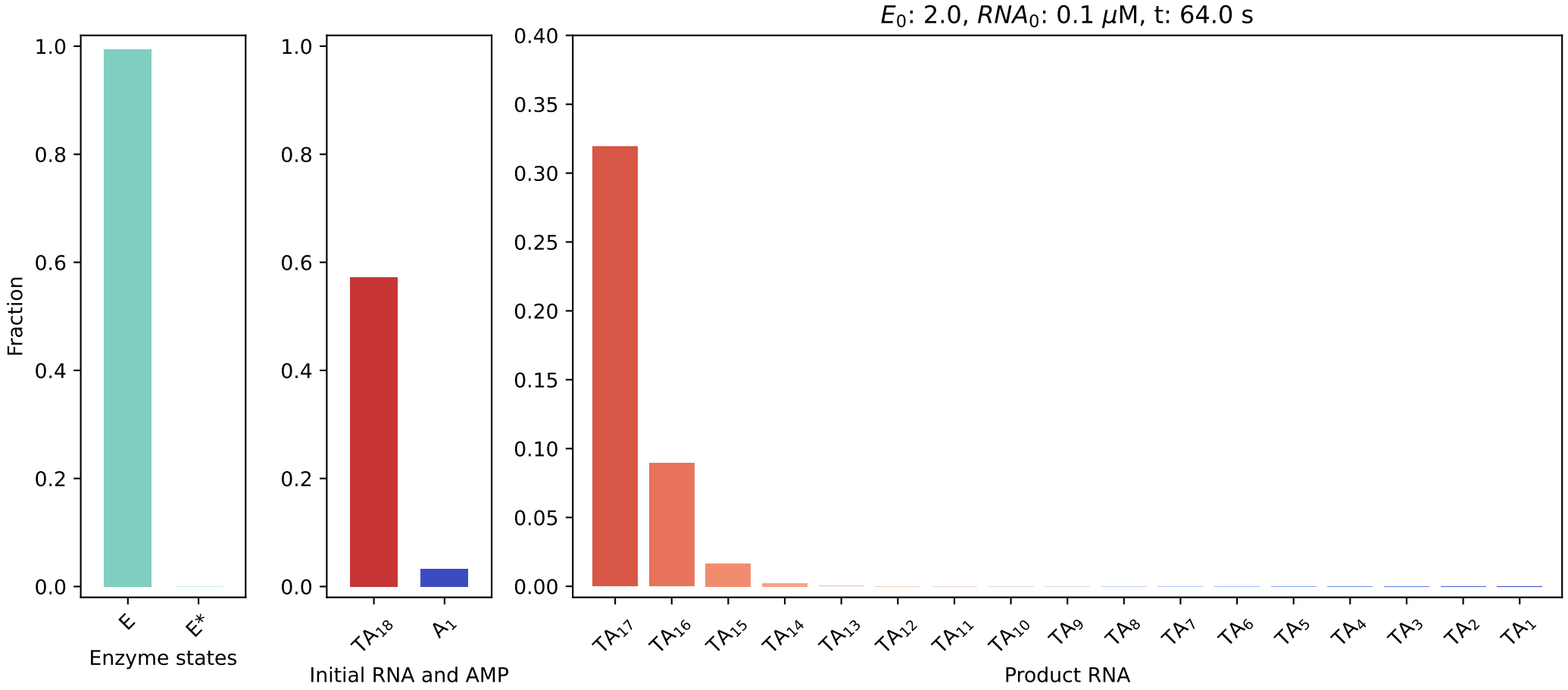
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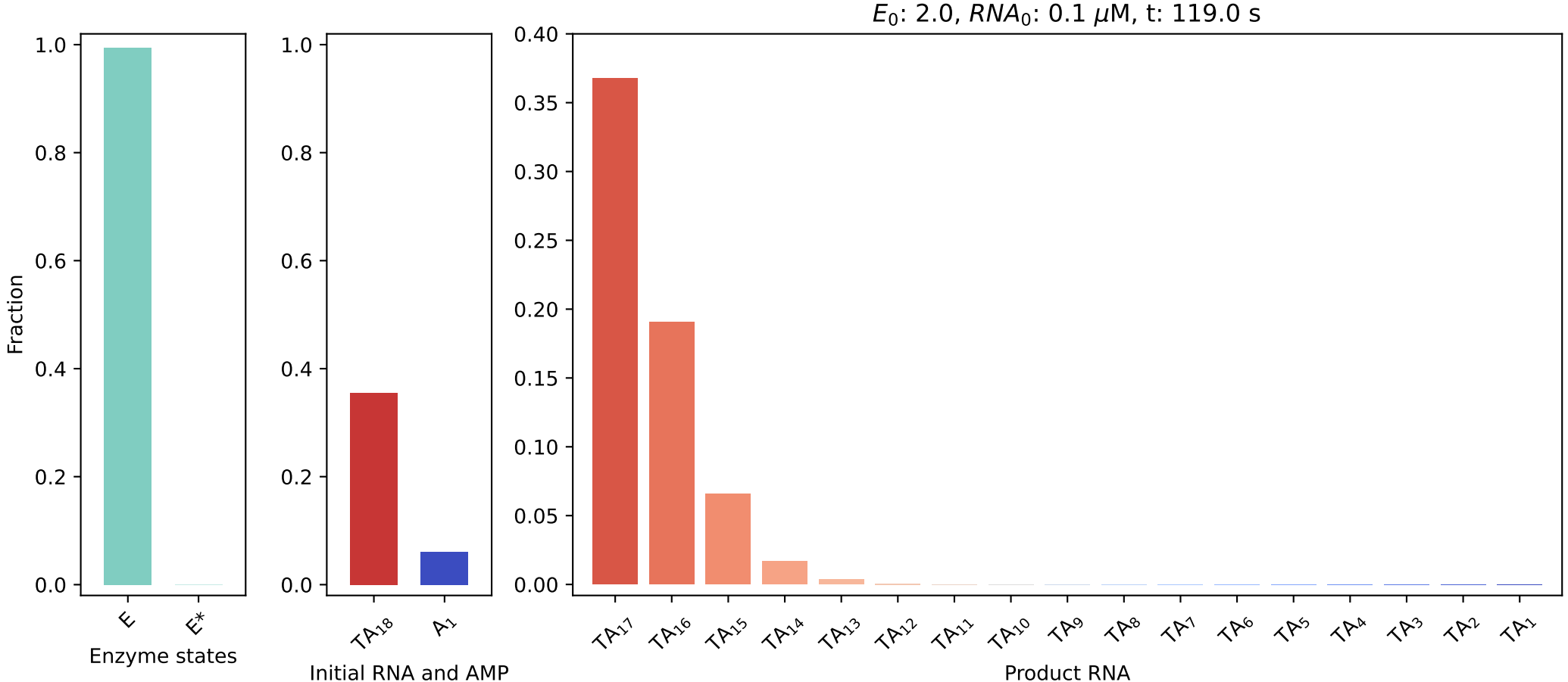
Product RNA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A_1
Initial RNA and AMP
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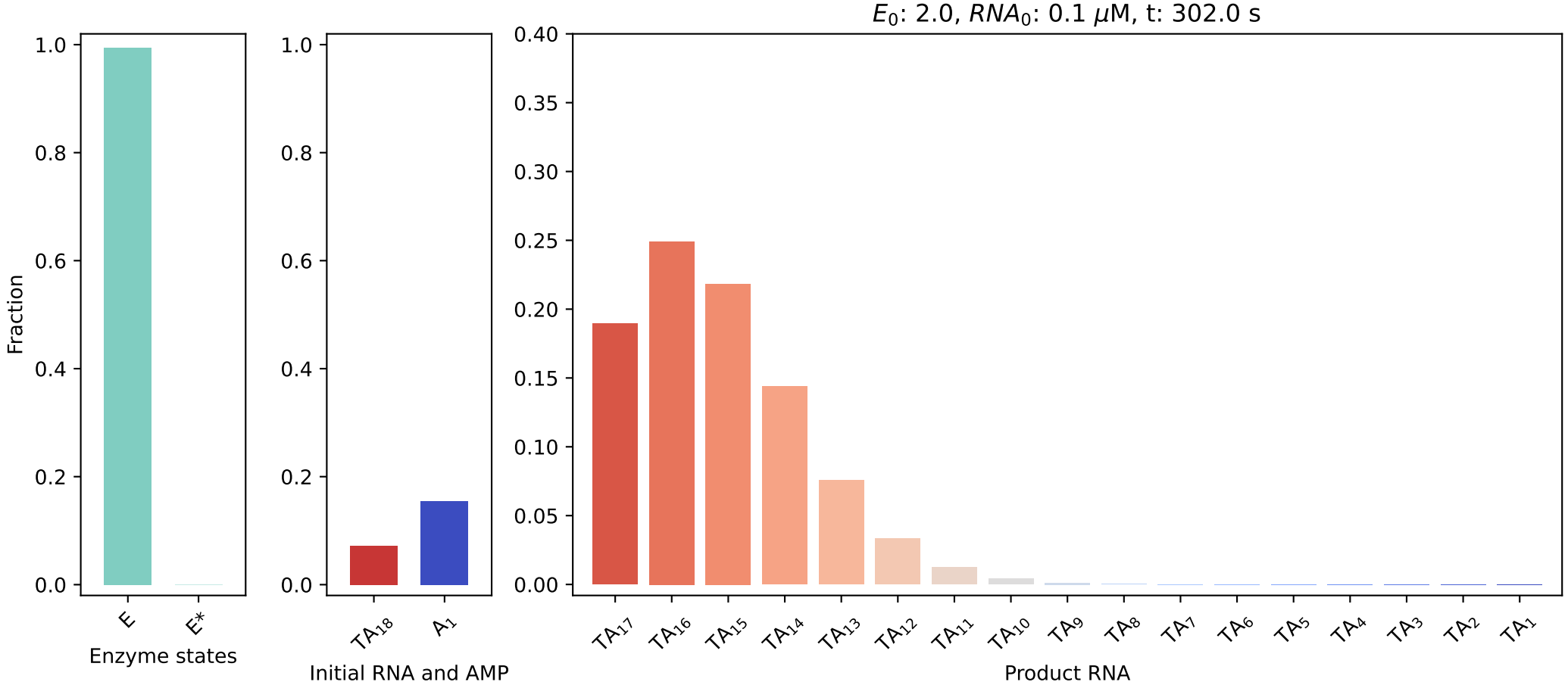
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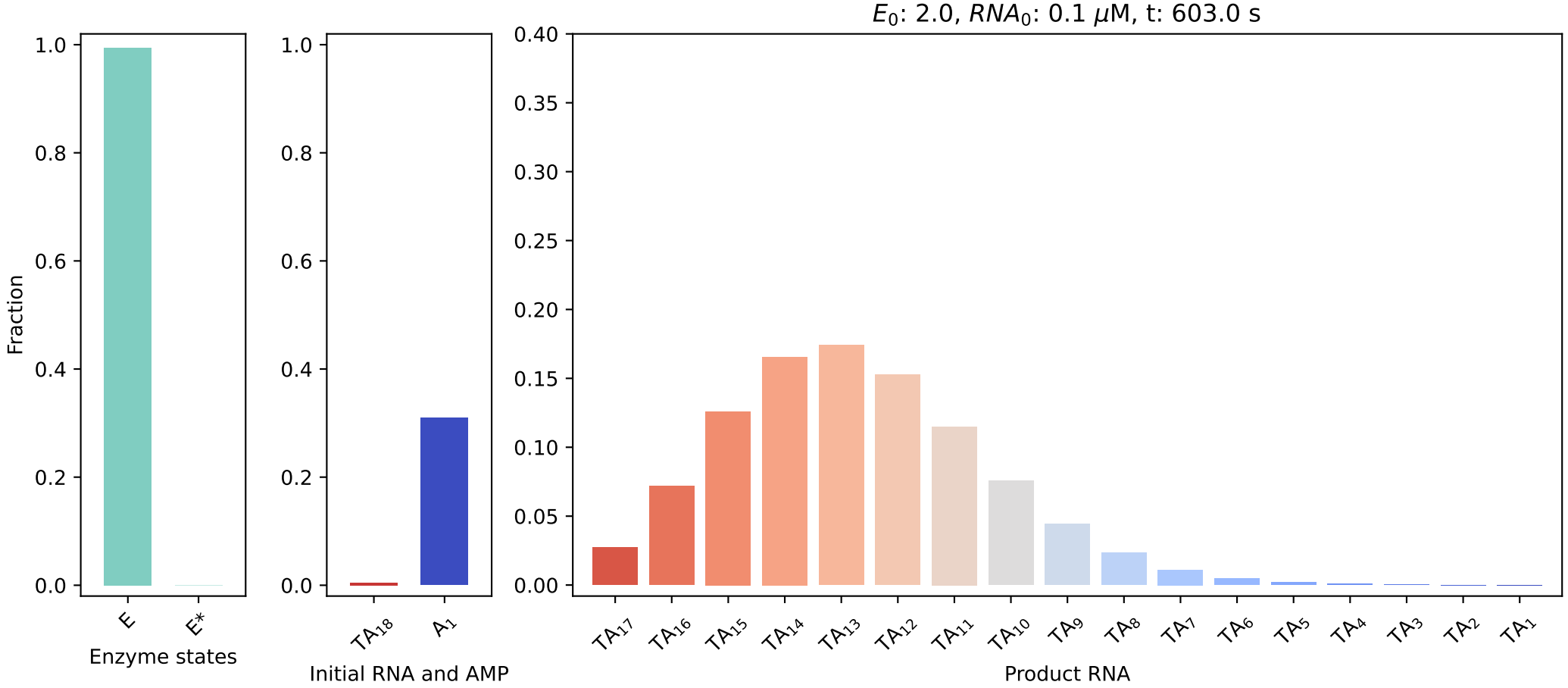
Product RNA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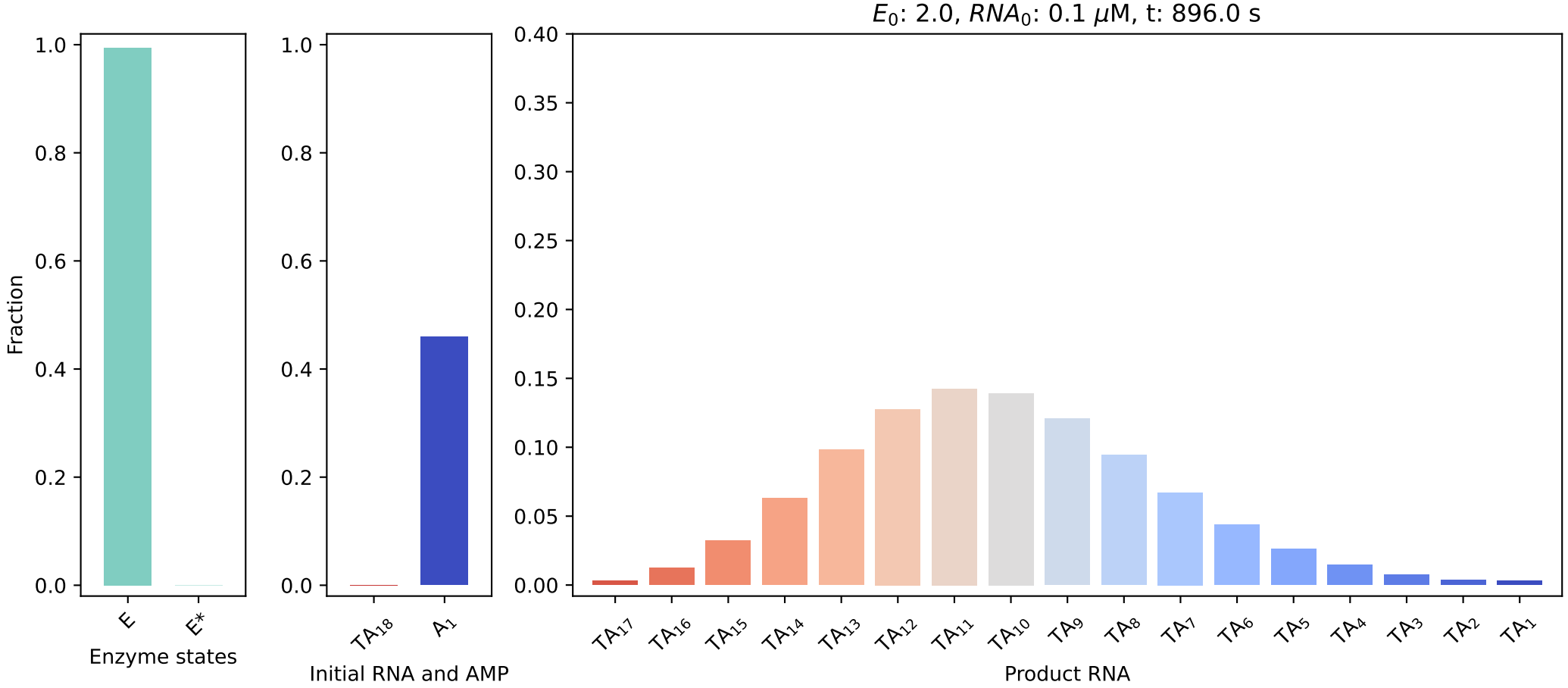
Product RNA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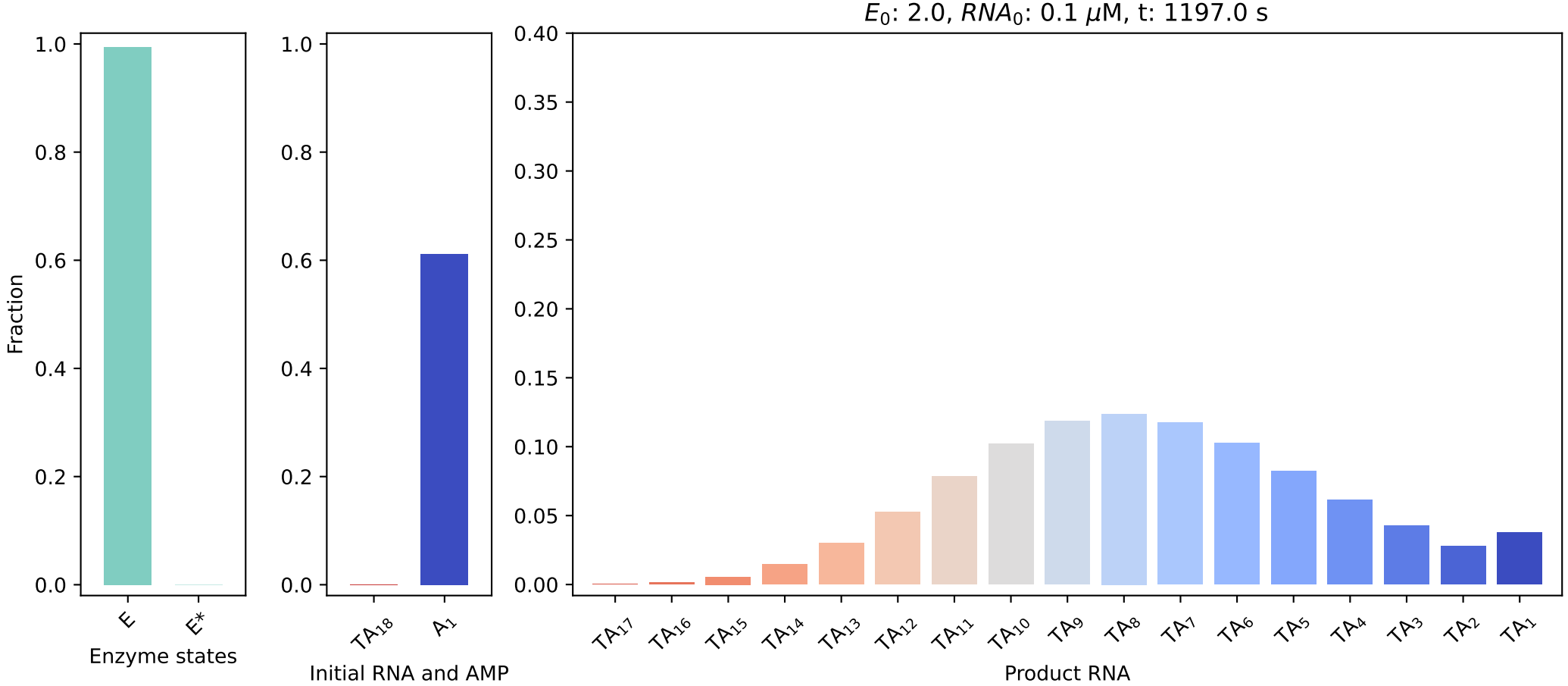
Product RNA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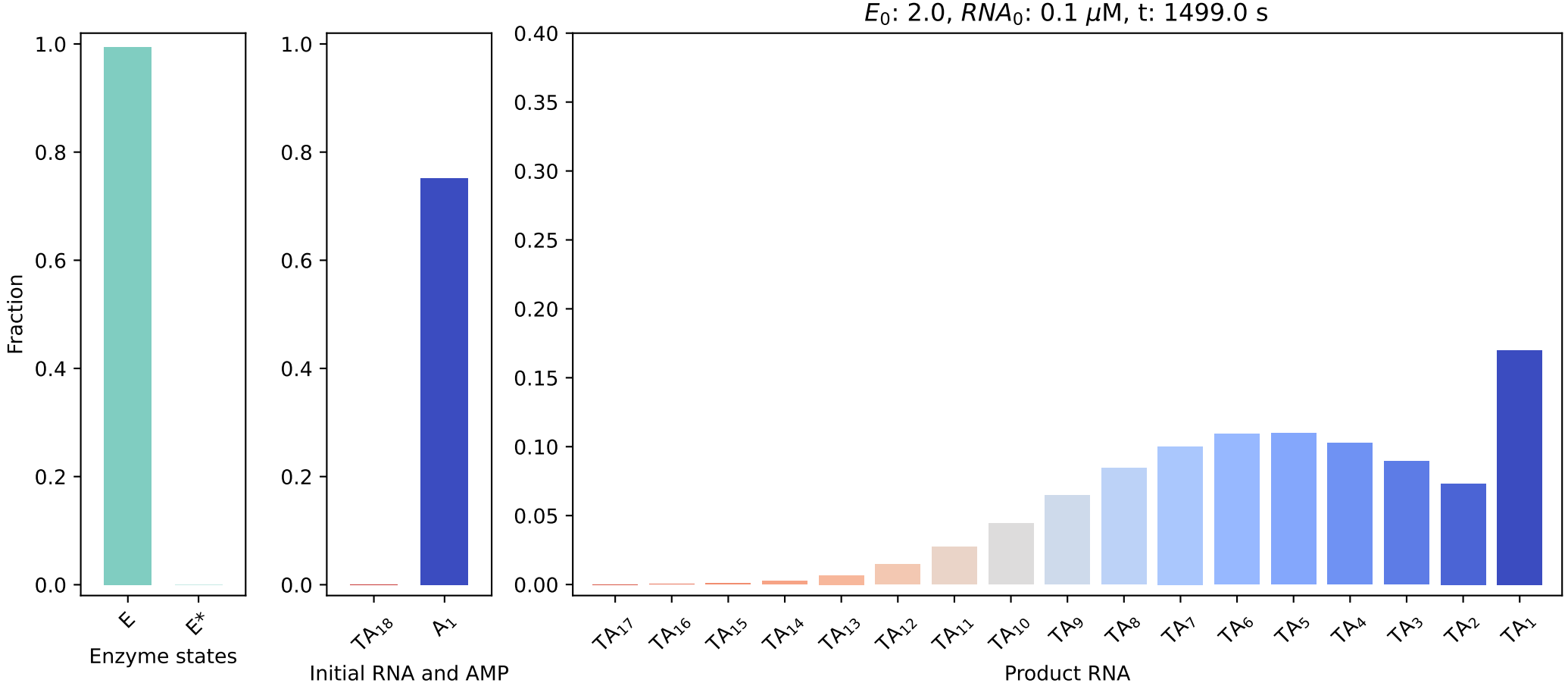
Product RNA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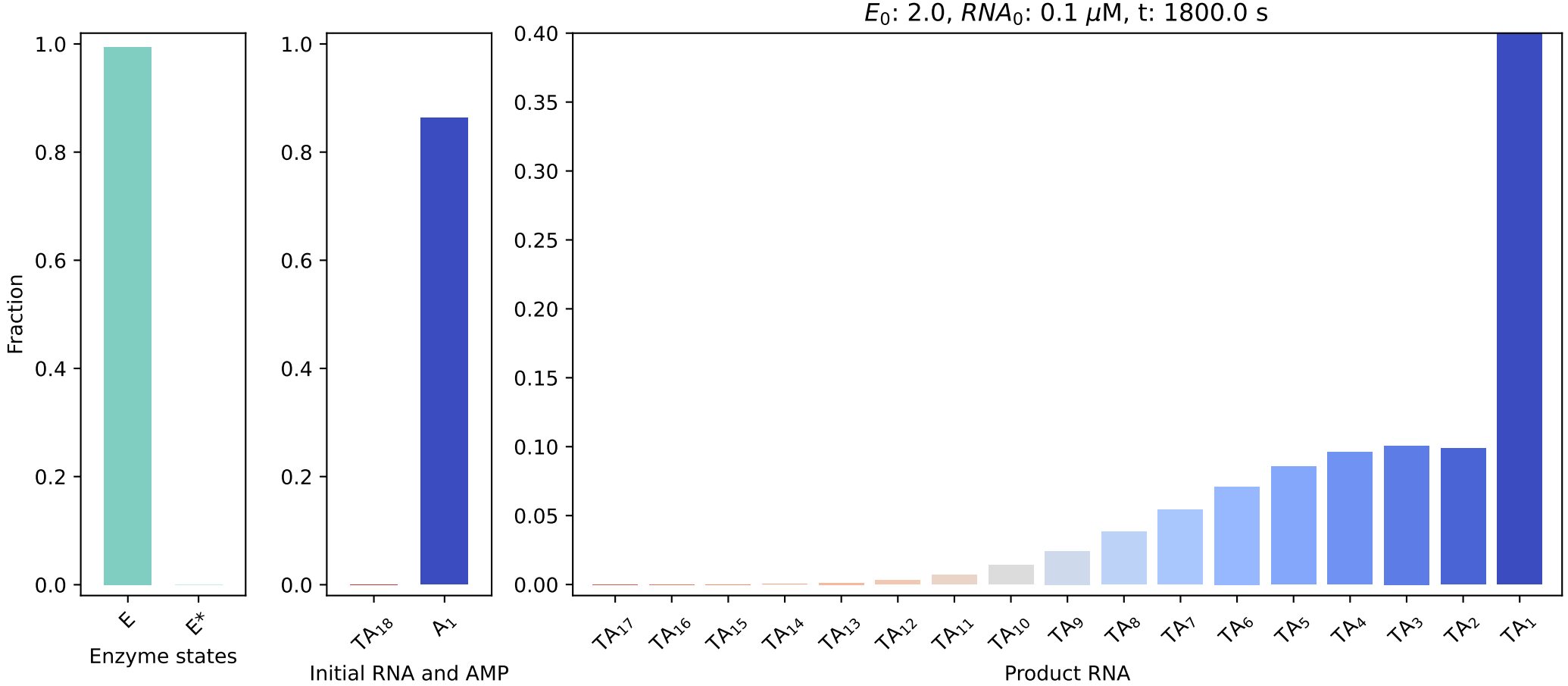
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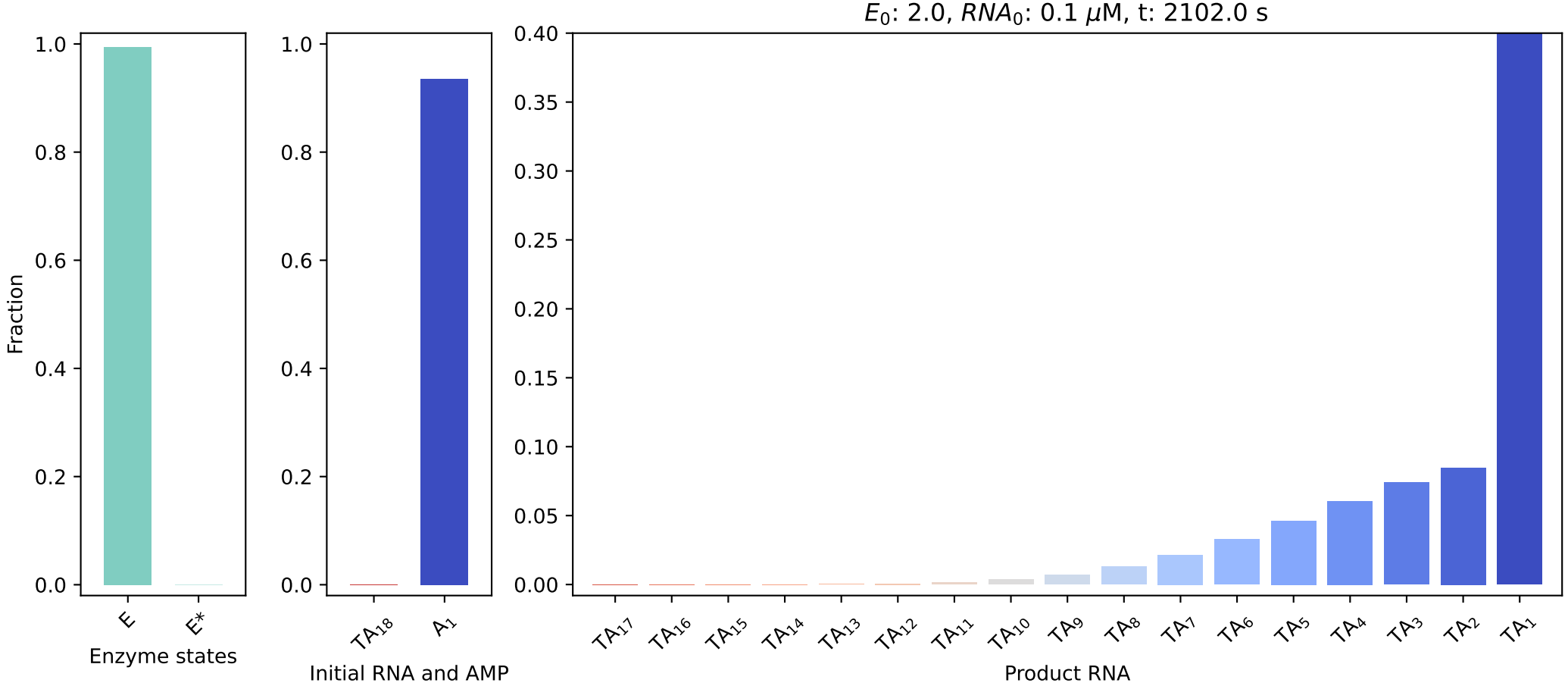
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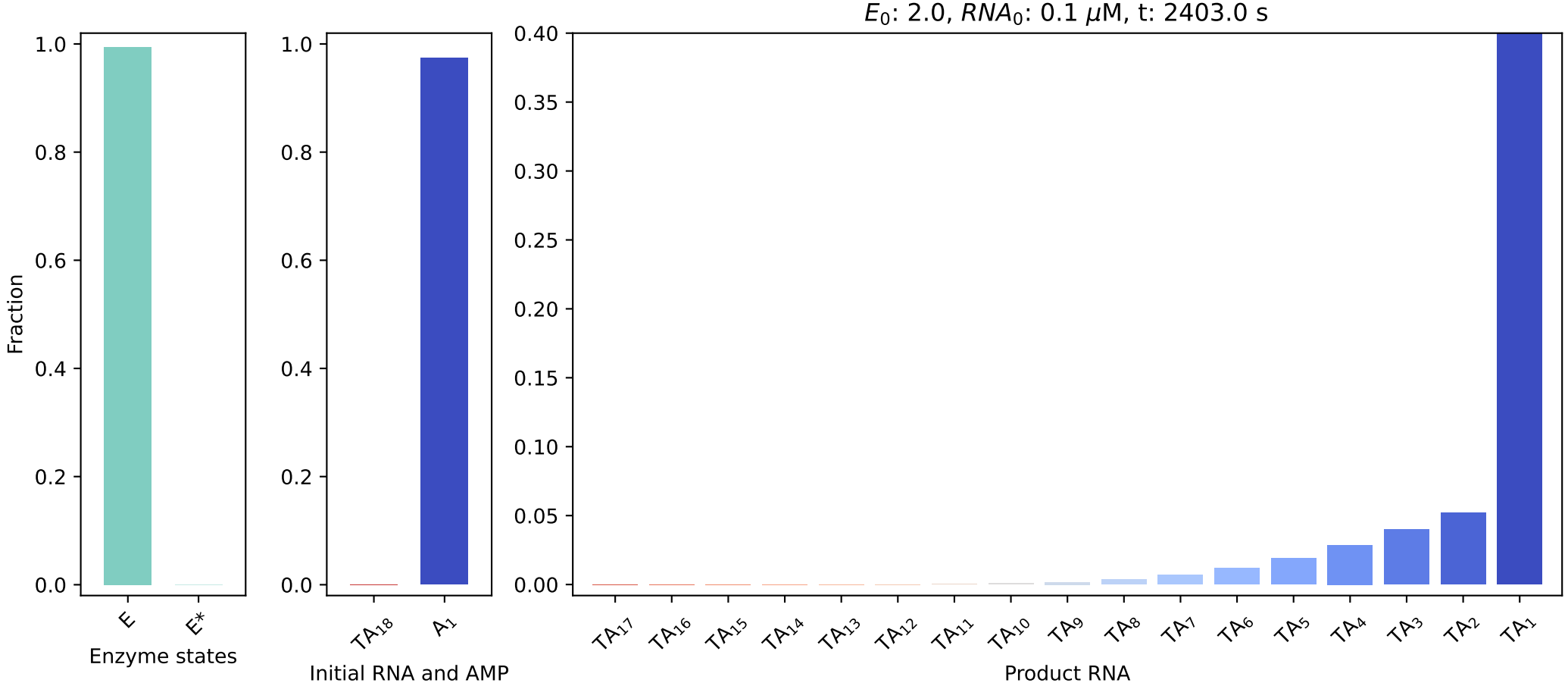
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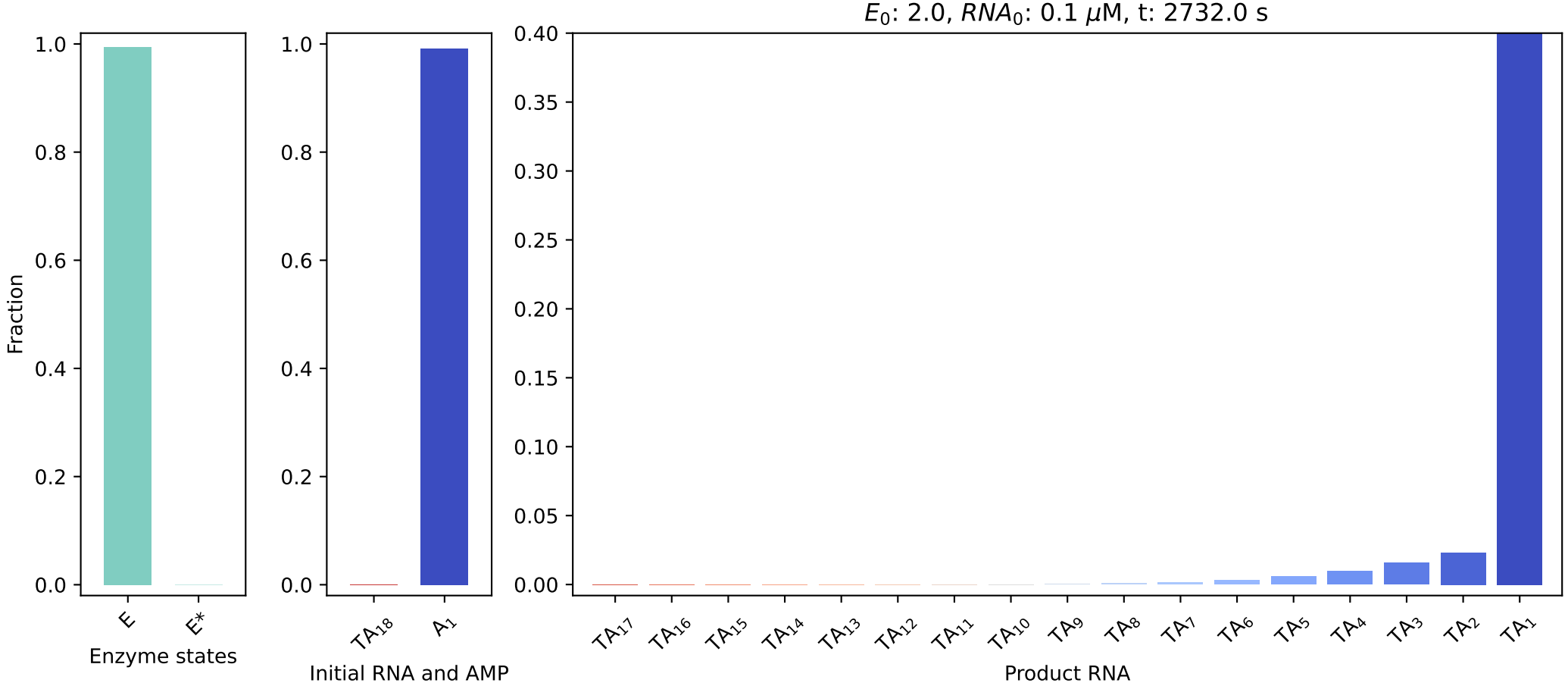
Product RNA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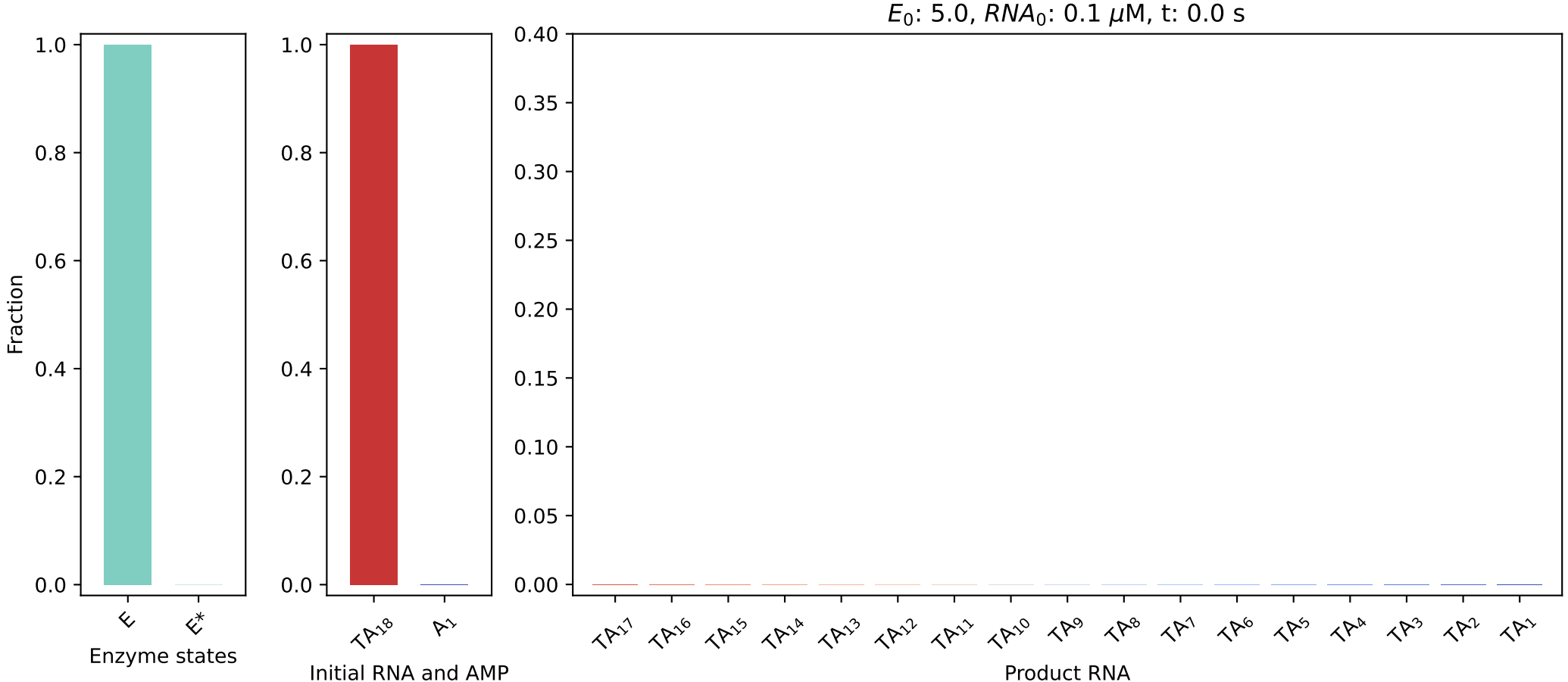
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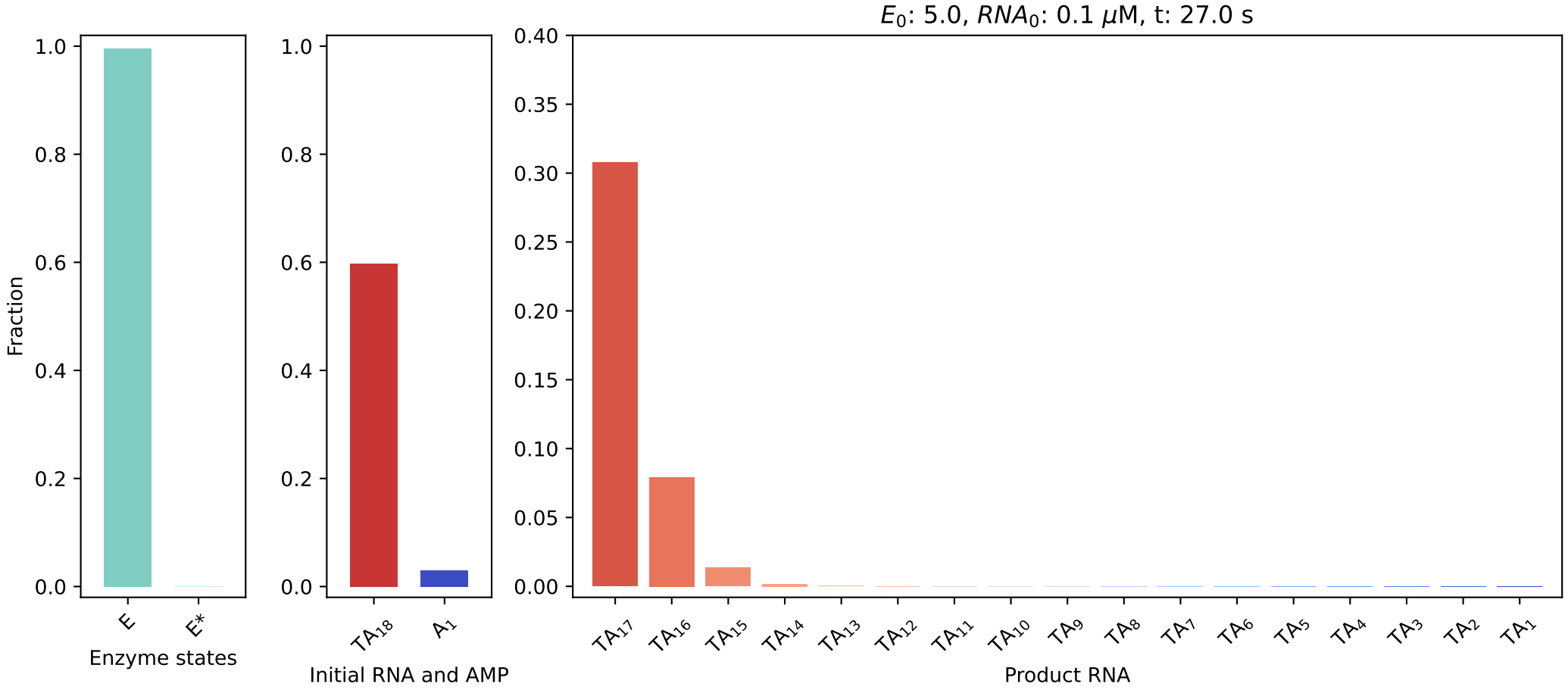
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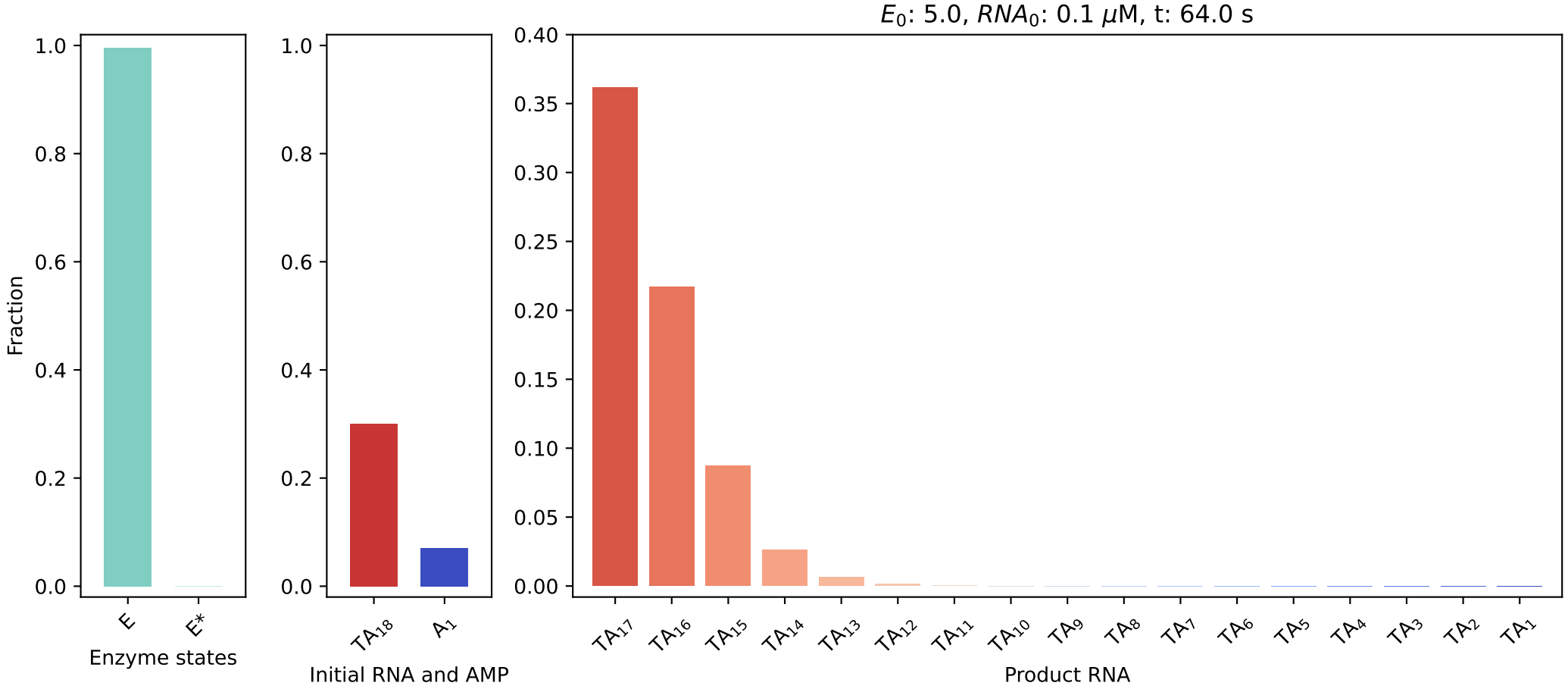
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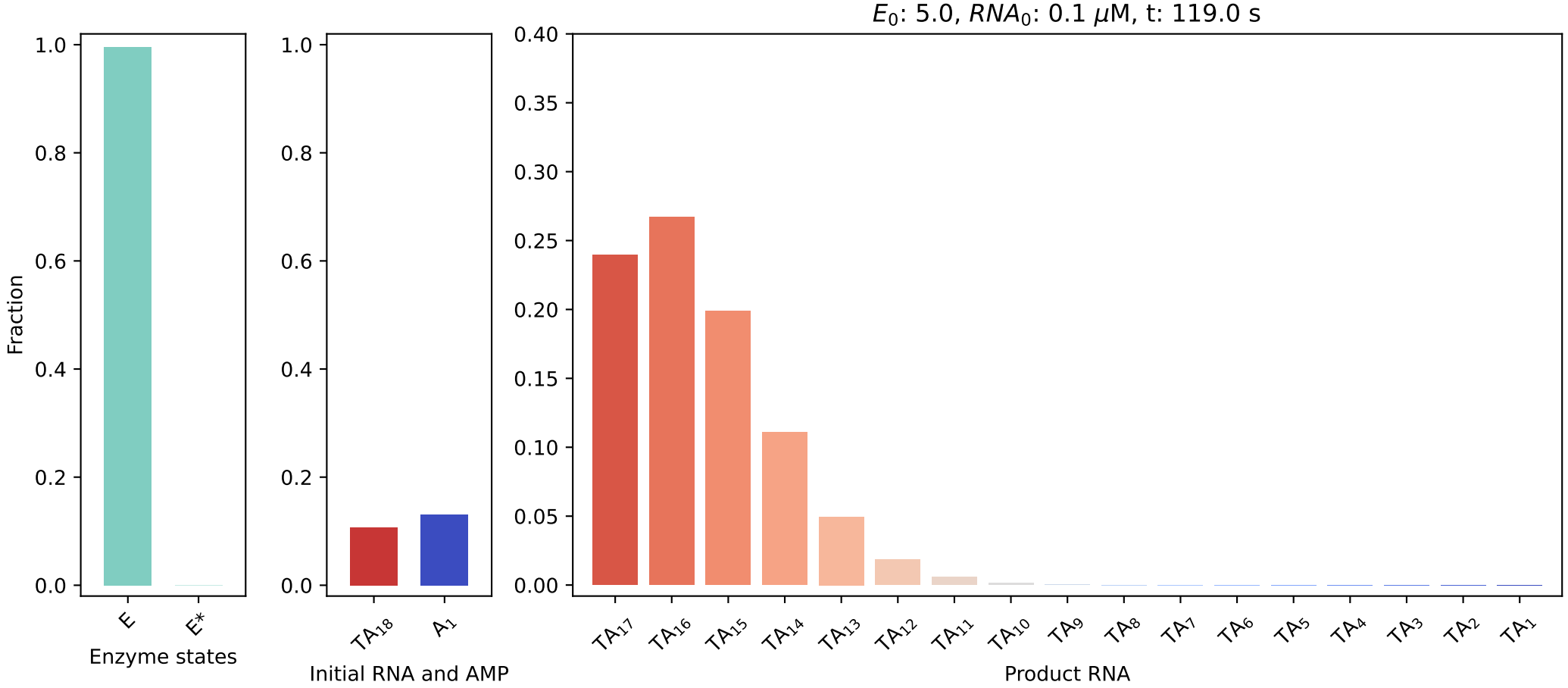
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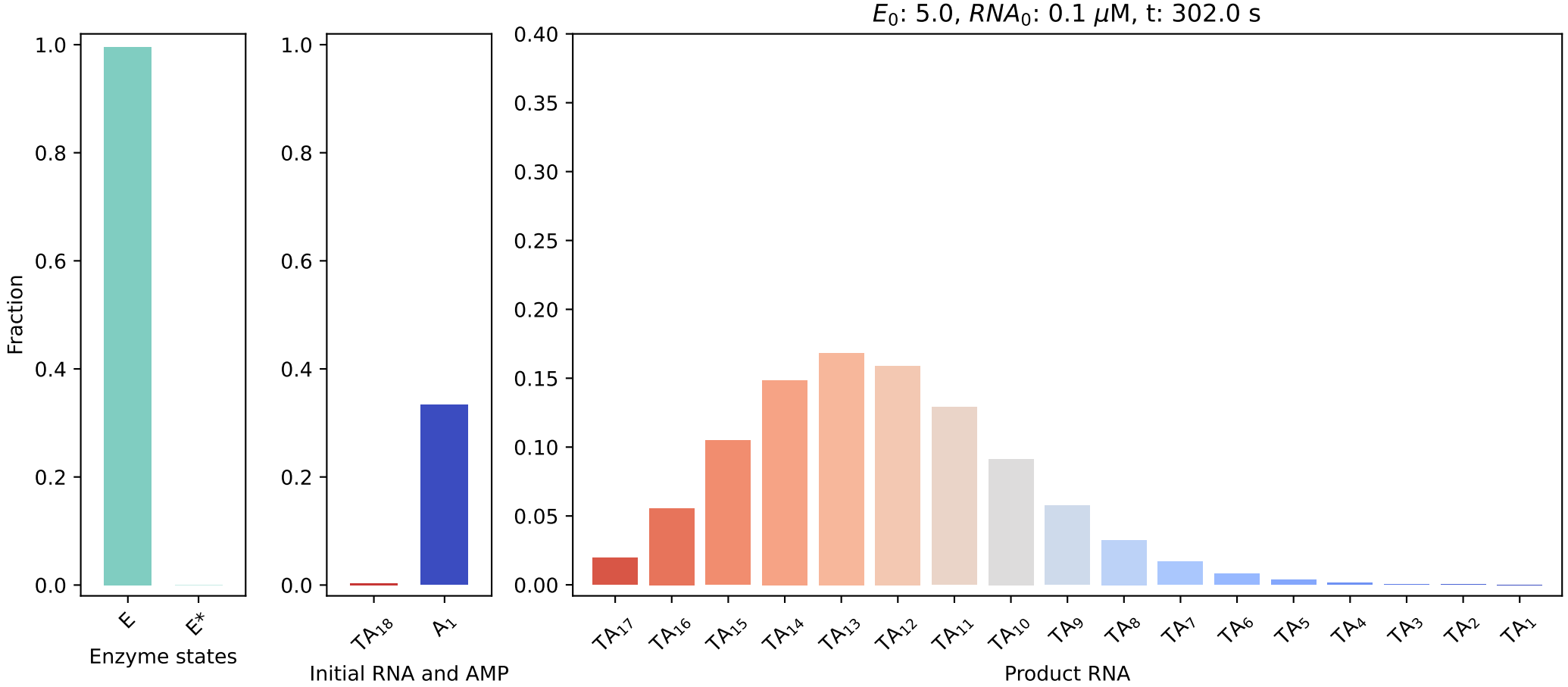
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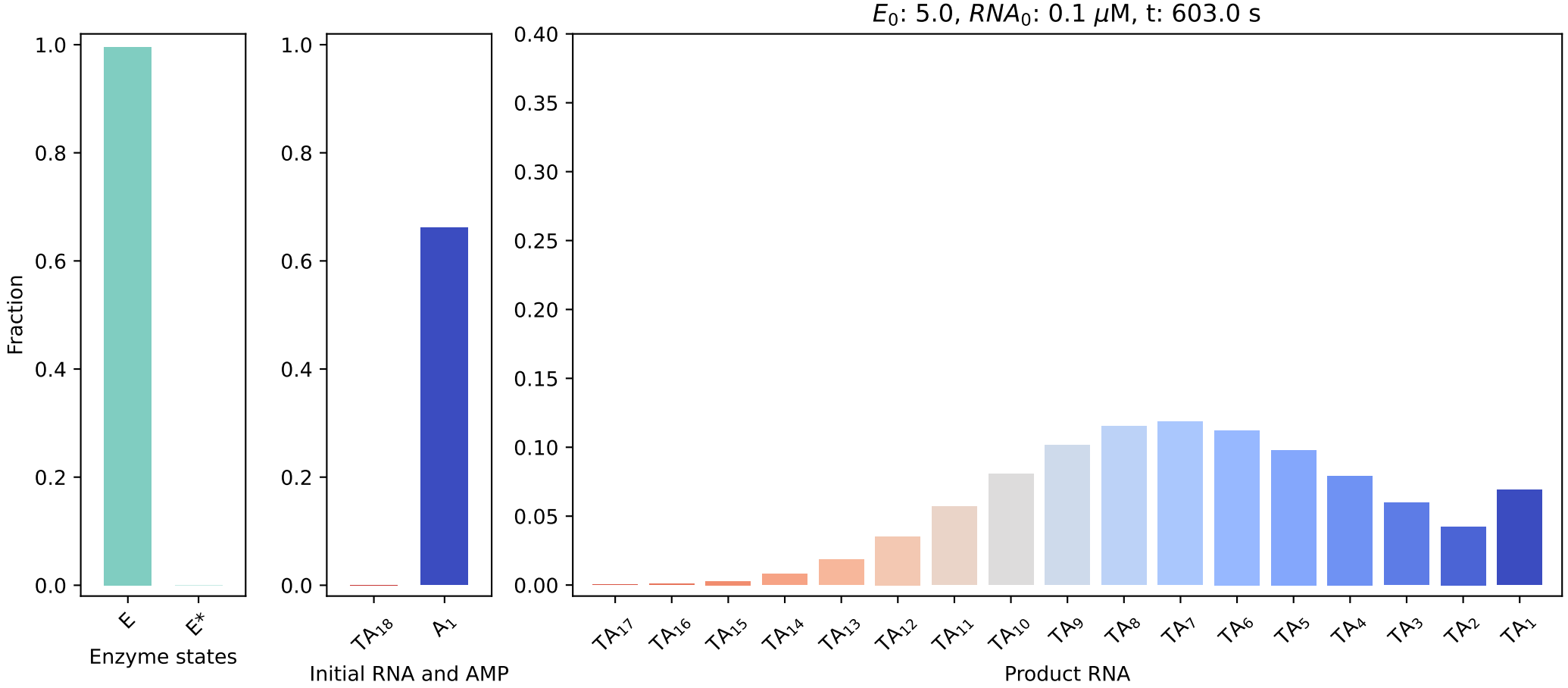
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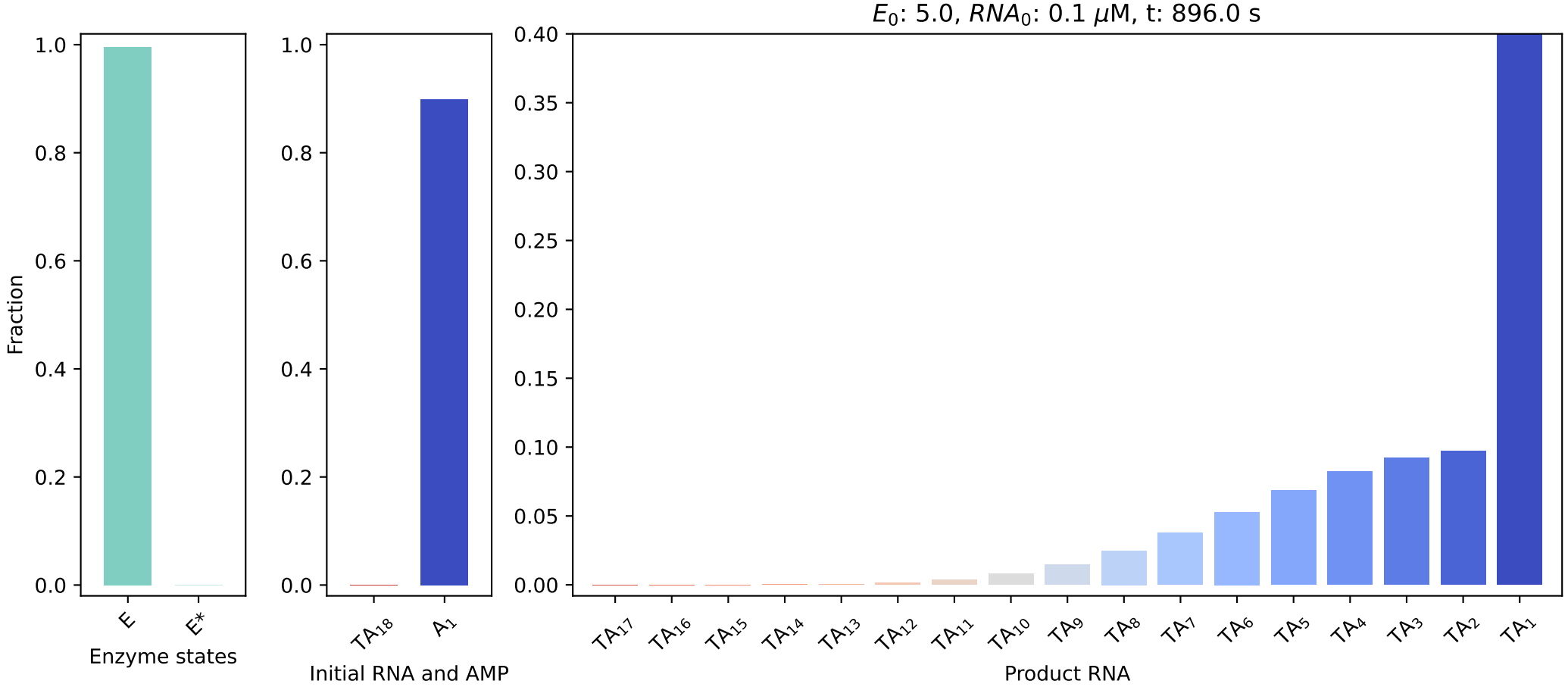
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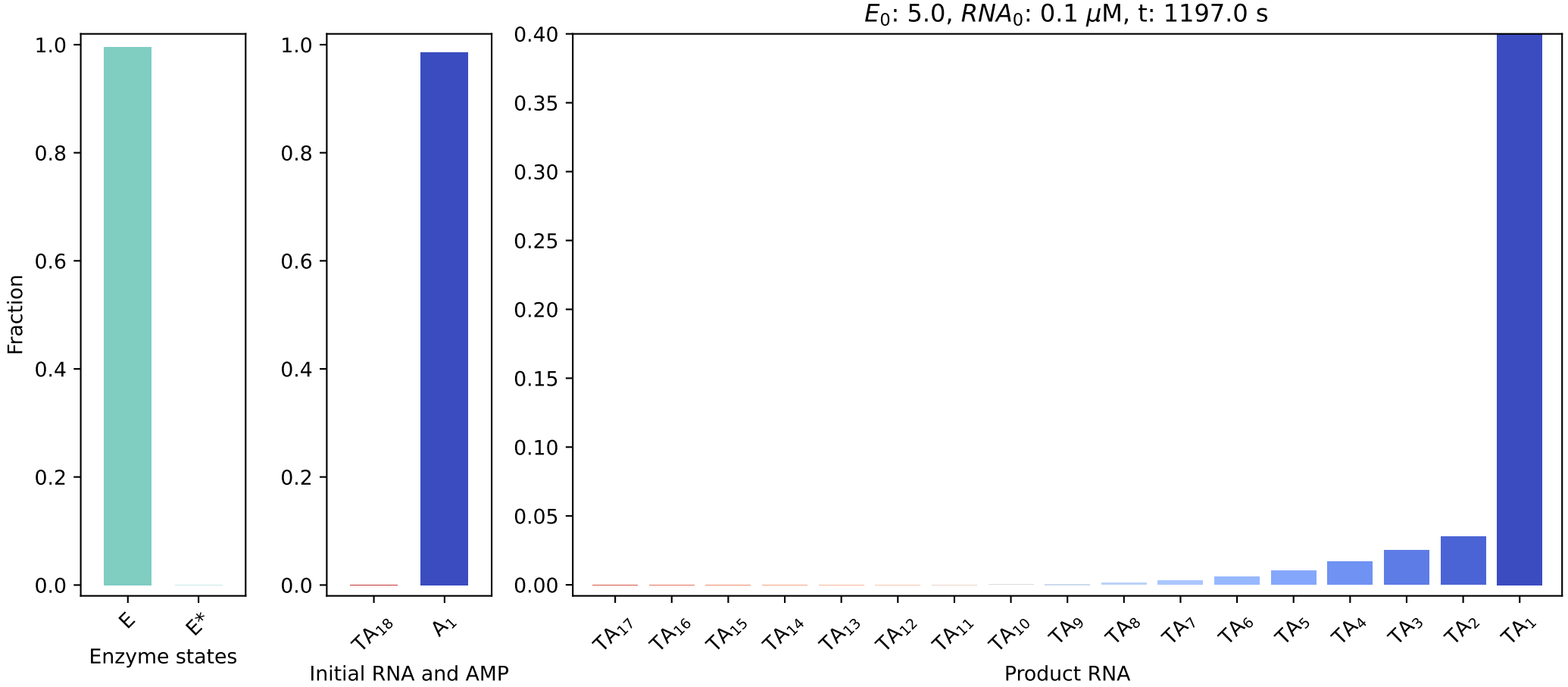
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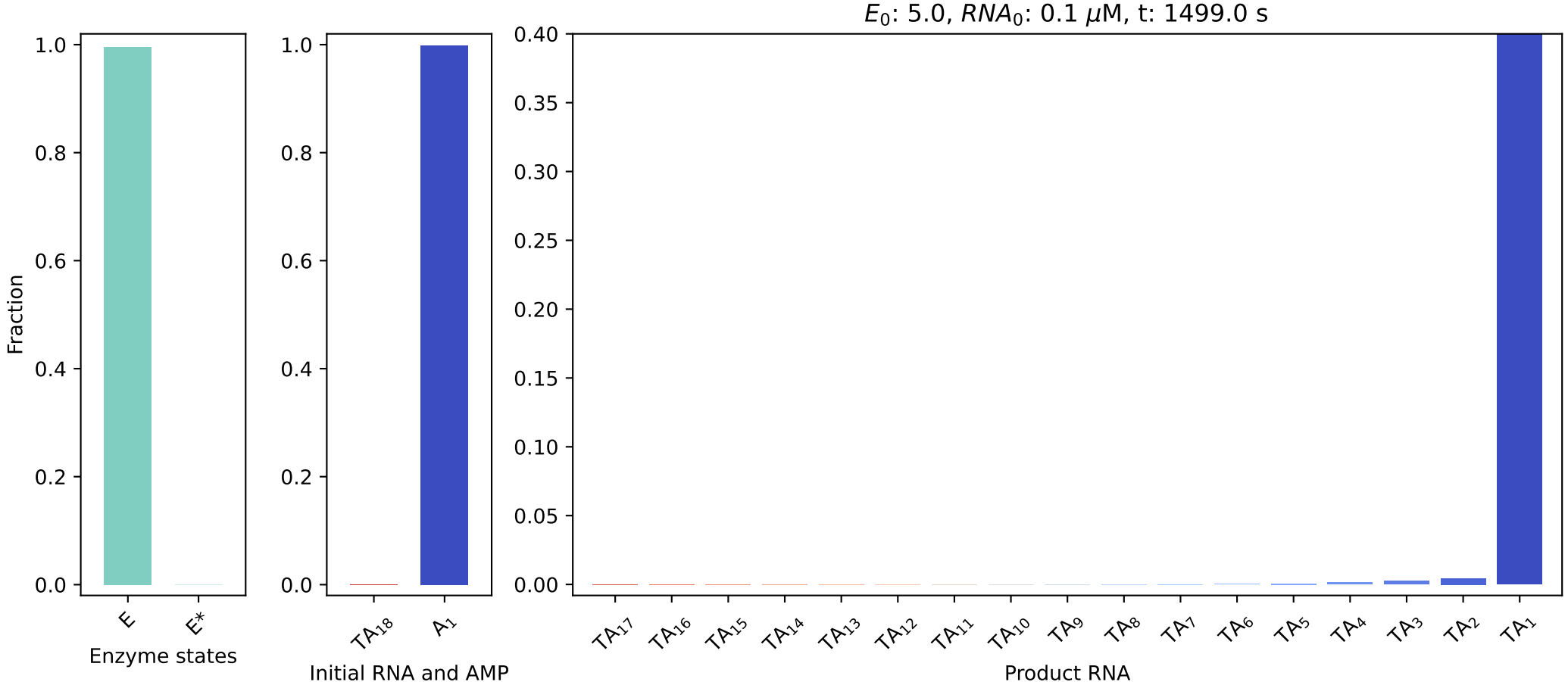
Product RNA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E
E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
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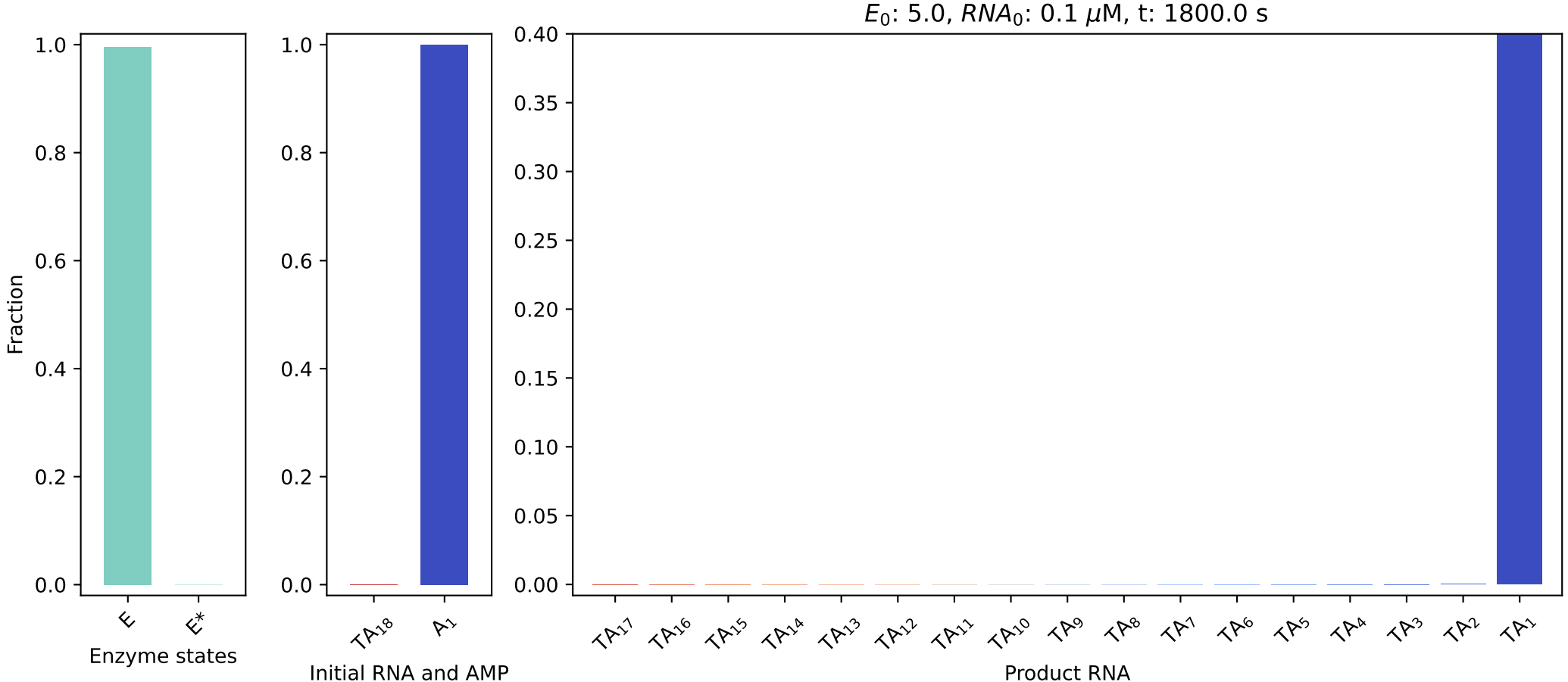
TA_4
TA_3
TA_2
TA_1
Product RNA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Enzyme states
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A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
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TA_{16}
TA_{15}
TA_{14}
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TA_{12}
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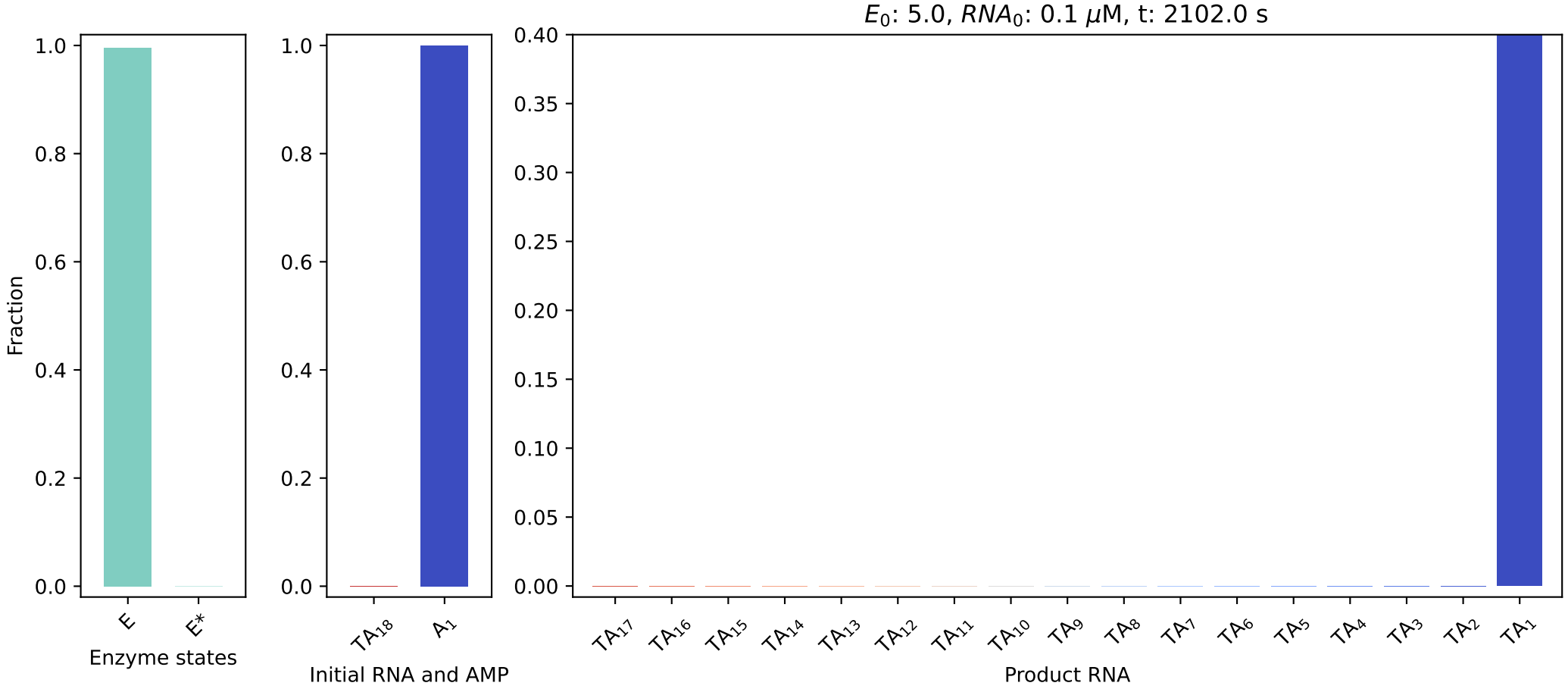
Product RNA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Enzyme states
TA18
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Initial RNA and AMP
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0.35
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0.20
0.15
0.10
0.05
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TA17
TA16
TA15
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TA7
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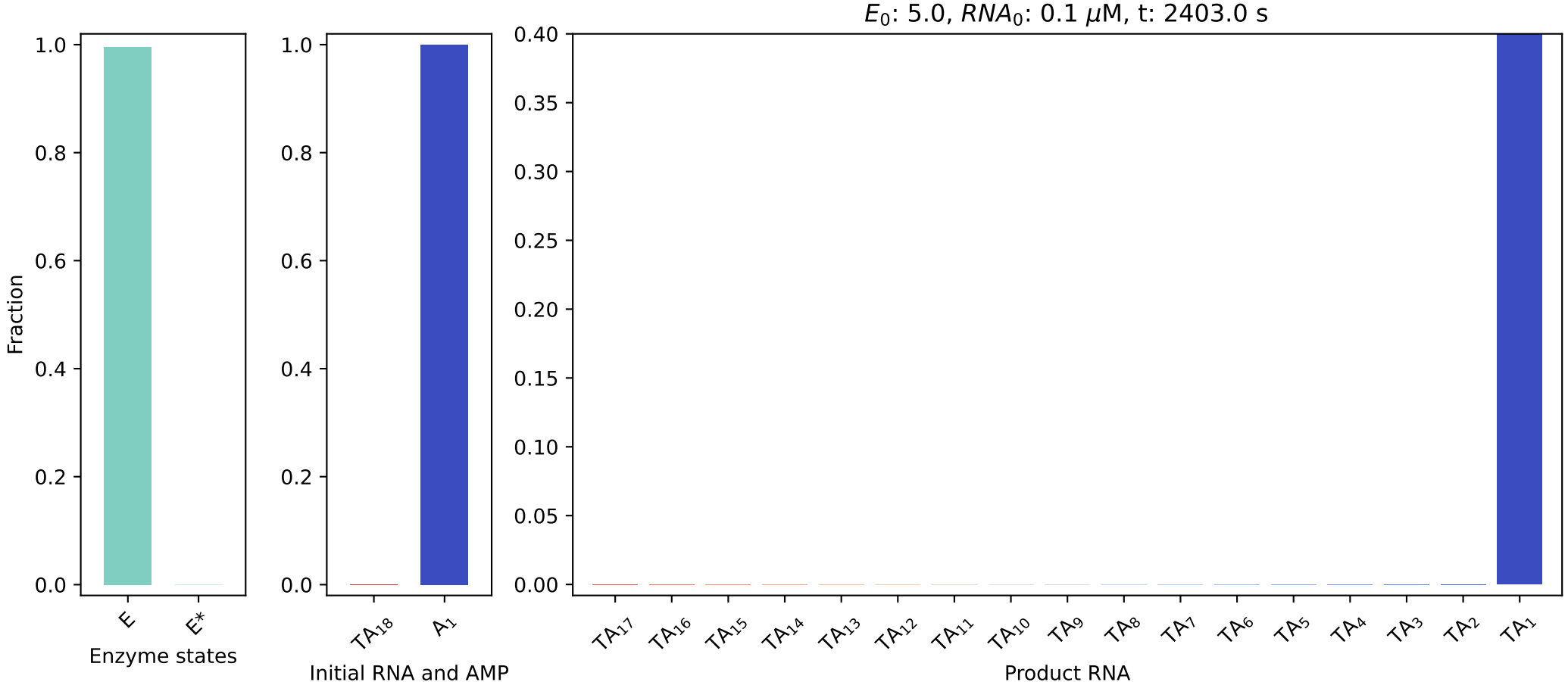
TA4
TA3
TA2
TA1
Product RNA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E
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Enzyme states
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A1
Initial RNA and AMP
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0.20
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0.05
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TA17
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TA15
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TA2
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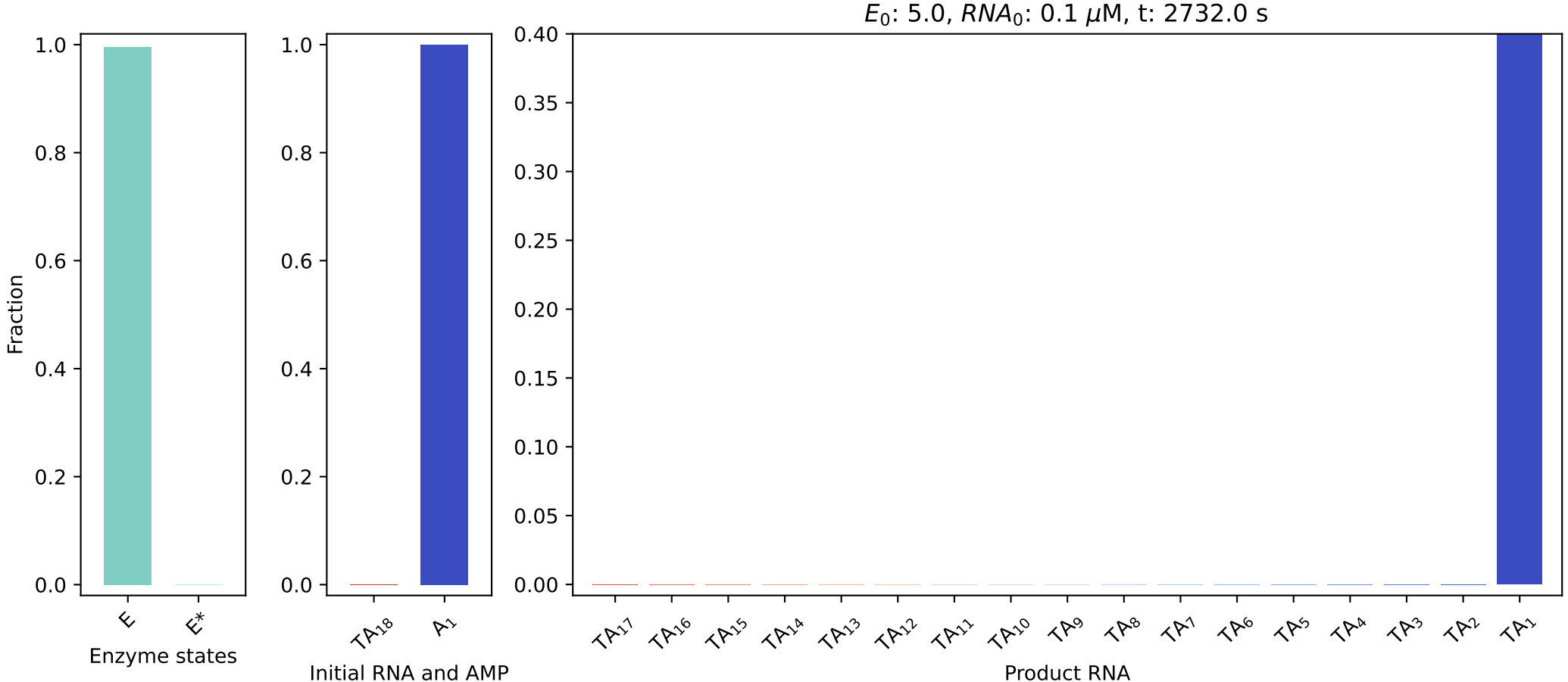
Product RNA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Enzyme states
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Initial RNA and AMP
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0.35
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0.25
0.20
0.15
0.10
0.05
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TA17
TA16
TA15
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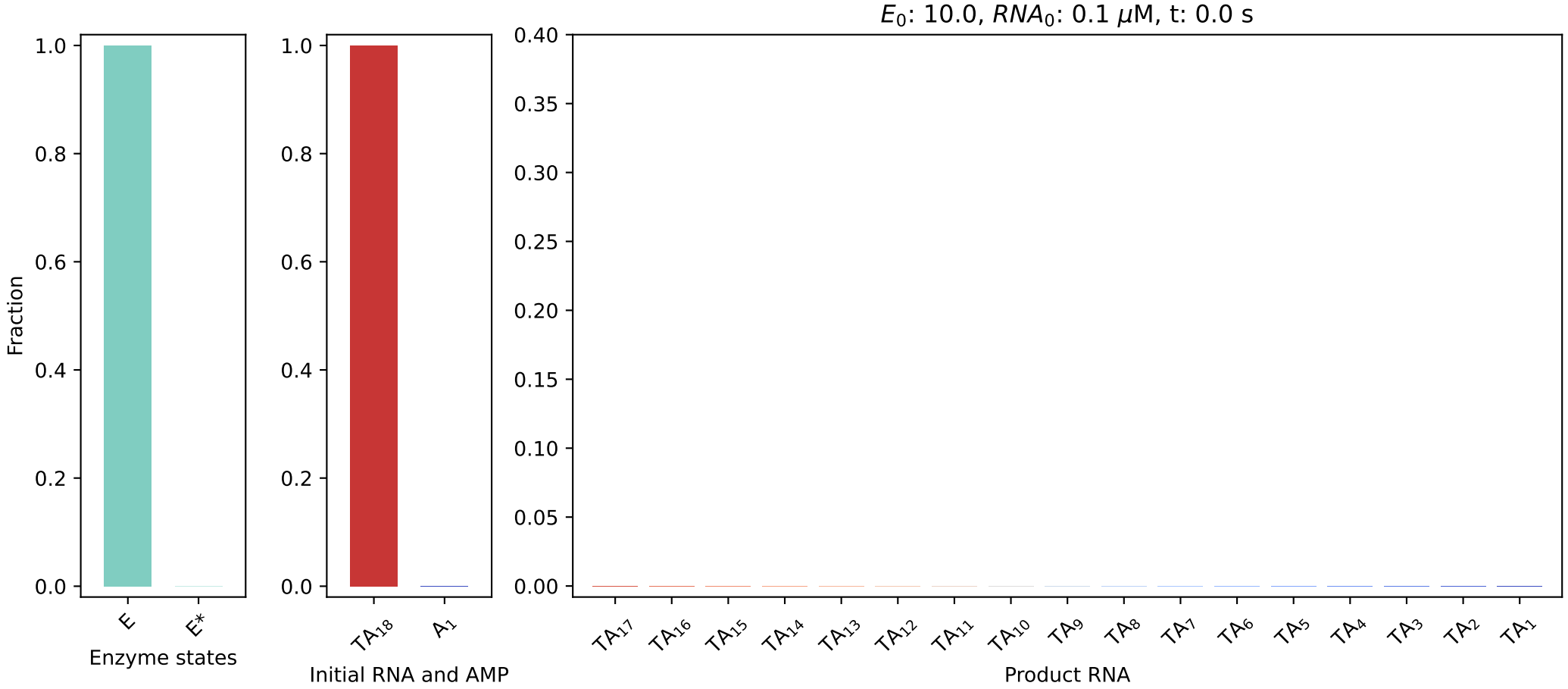
TA2
TA1
Product RNA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E*
Enzyme states
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A_1
Initial RNA and AMP
0.40
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TA_{16}
TA_{15}
TA_{14}
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TA_4
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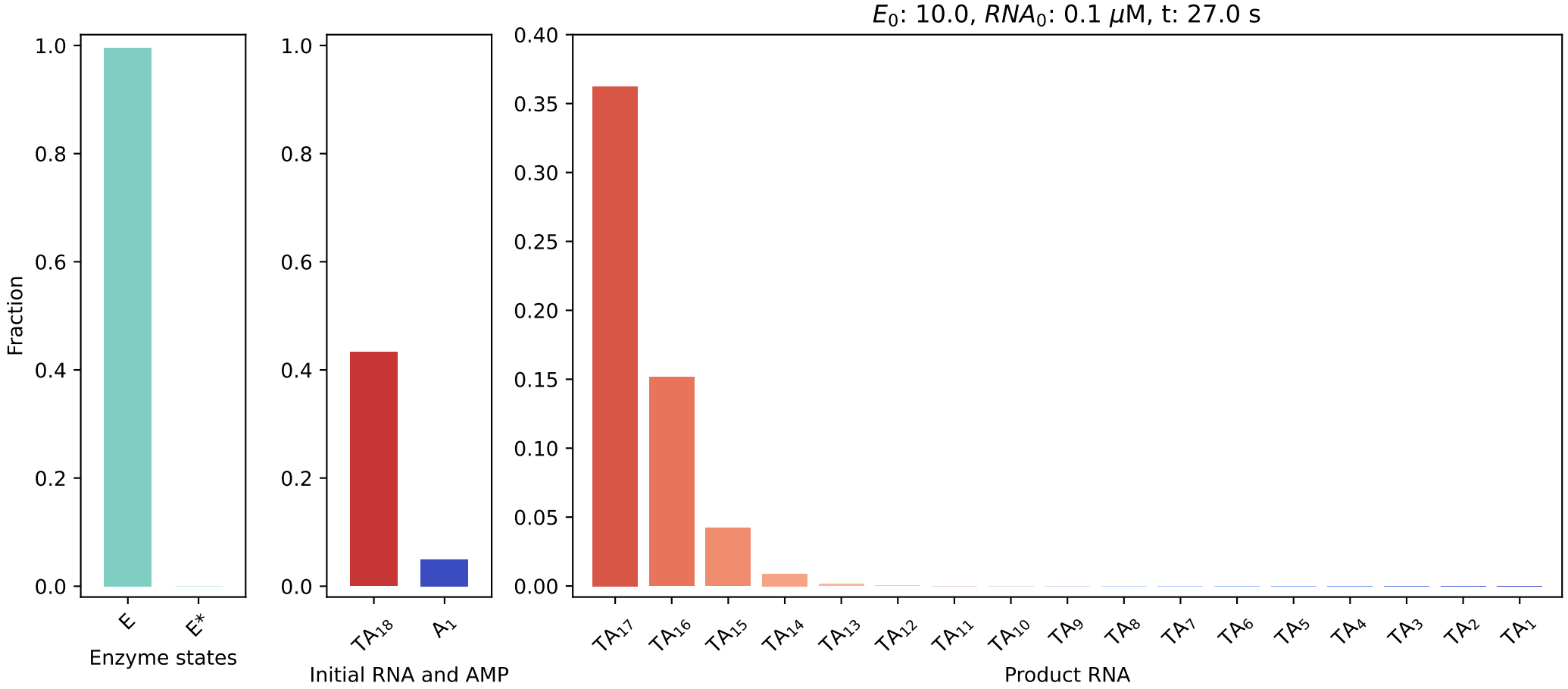
TA_1
Product RNA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Enzyme states
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Initial RNA and AMP
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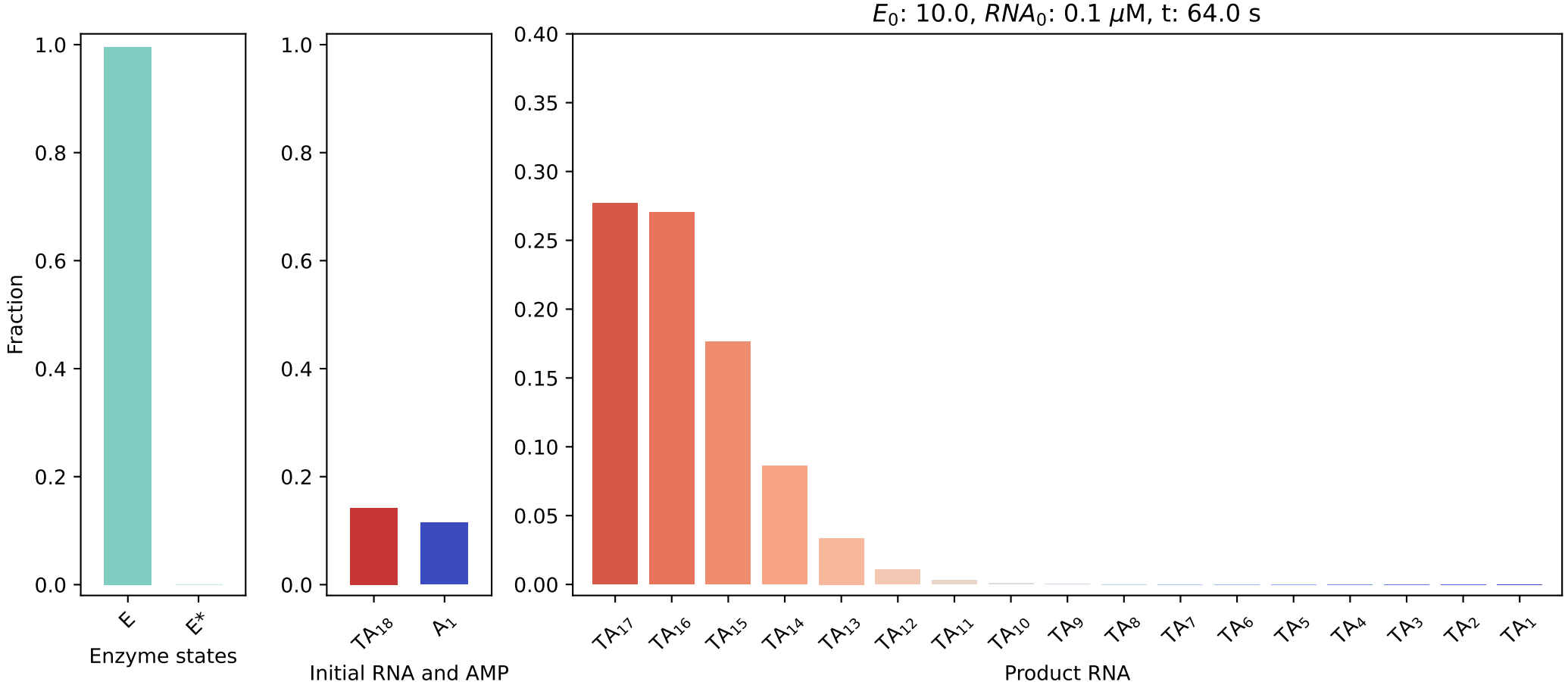
TA2
TA1
Product RNA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Enzyme states
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Initial RNA and AMP
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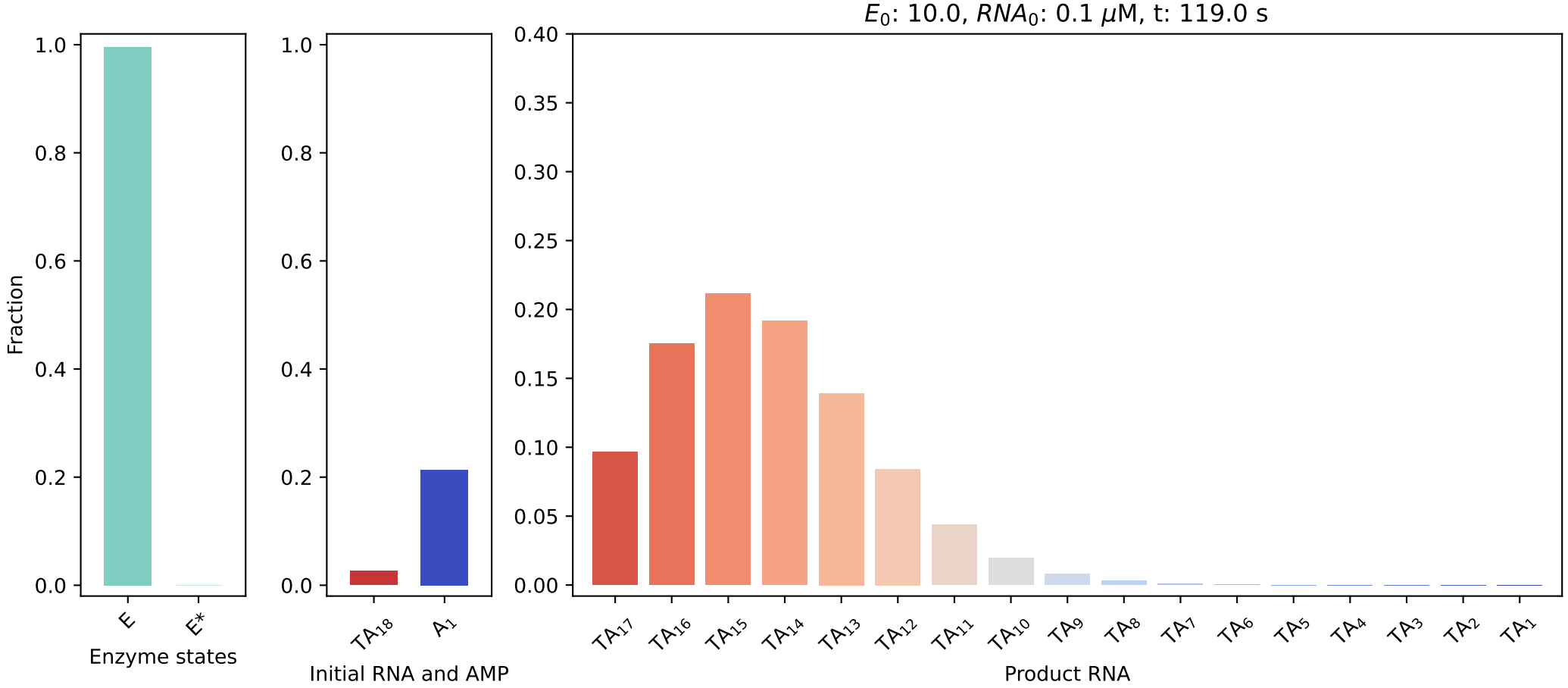
Product RNA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E
E*
Enzyme states
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Initial RNA and AMP
0.40
0.35
0.30
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TA17
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TA2
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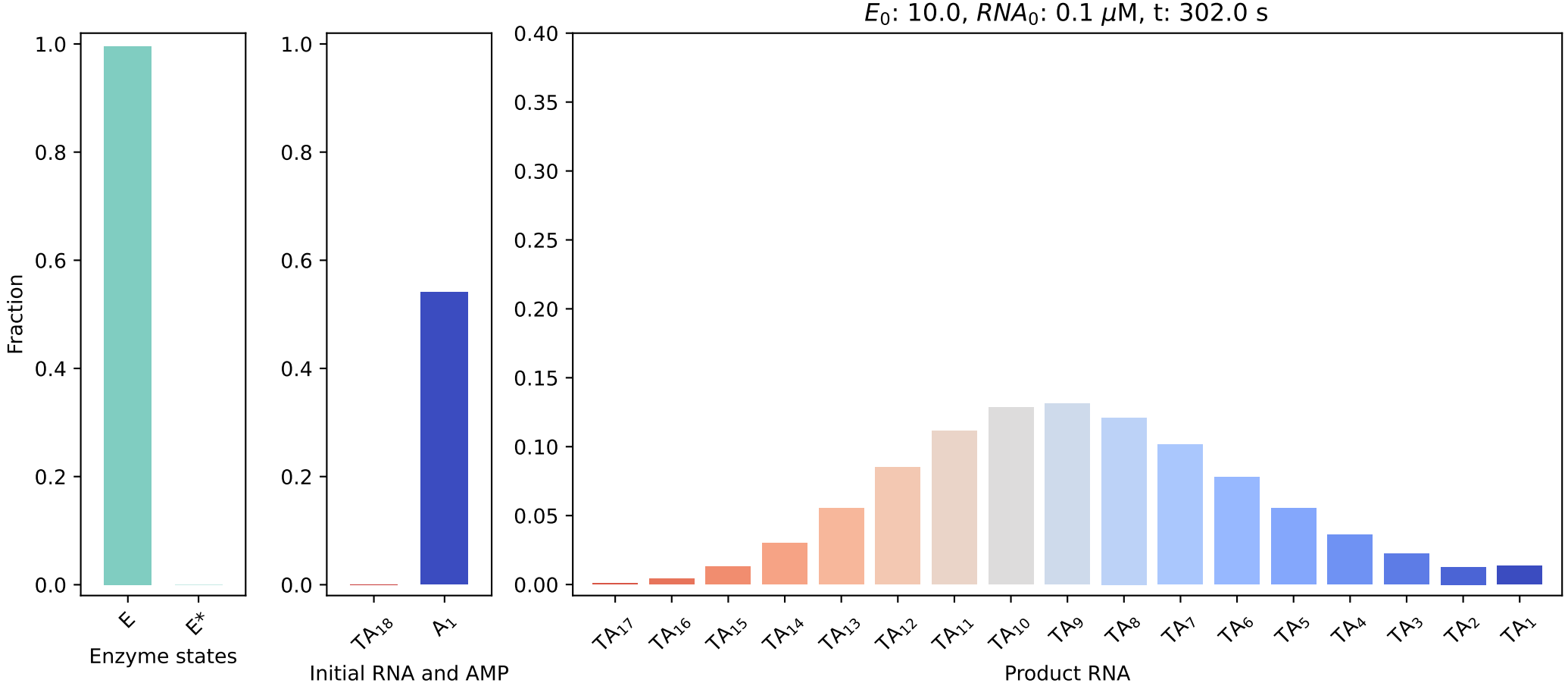
Product RNA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E
E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
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TA_{16}
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TA_{14}
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TA_8
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TA_4
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TA_2
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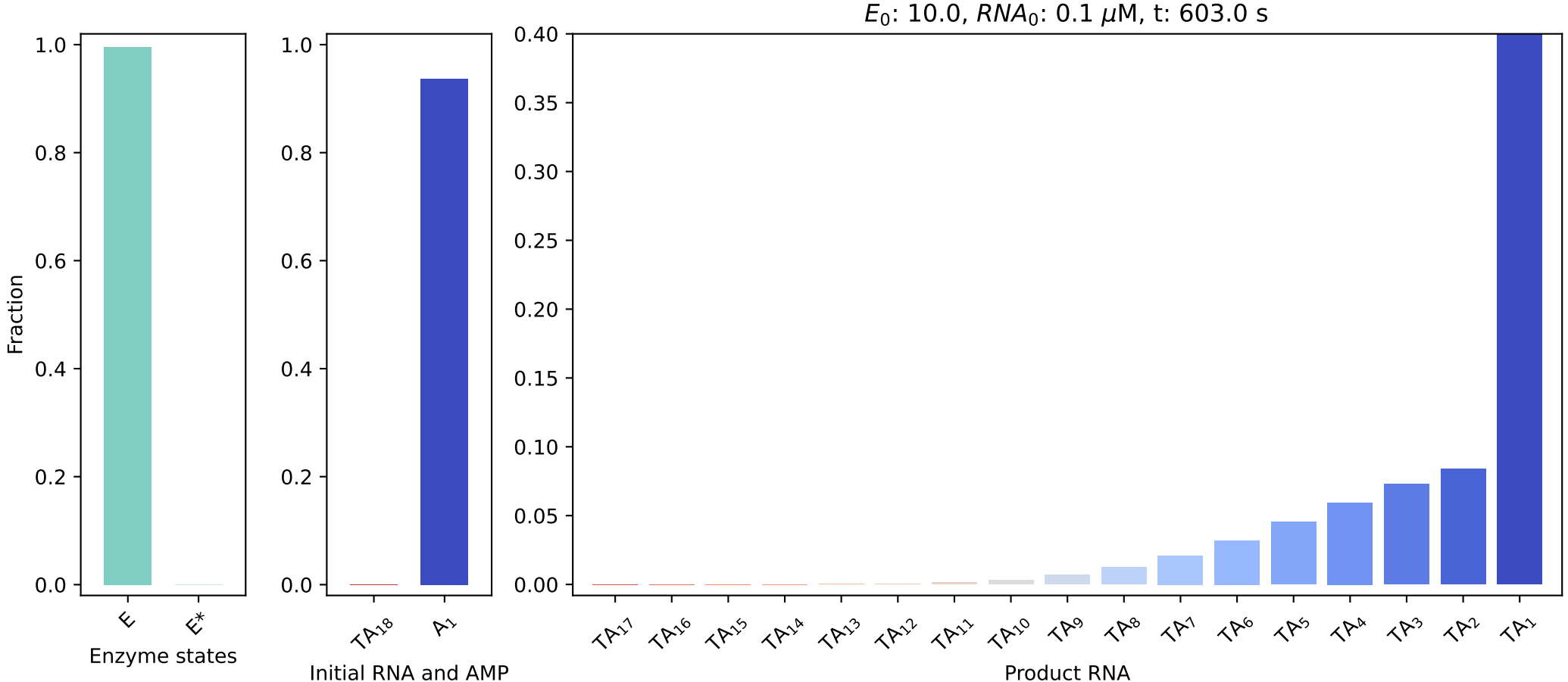
Product RNA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Enzyme states
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TA_{18}
A_1
Initial RNA and AMP
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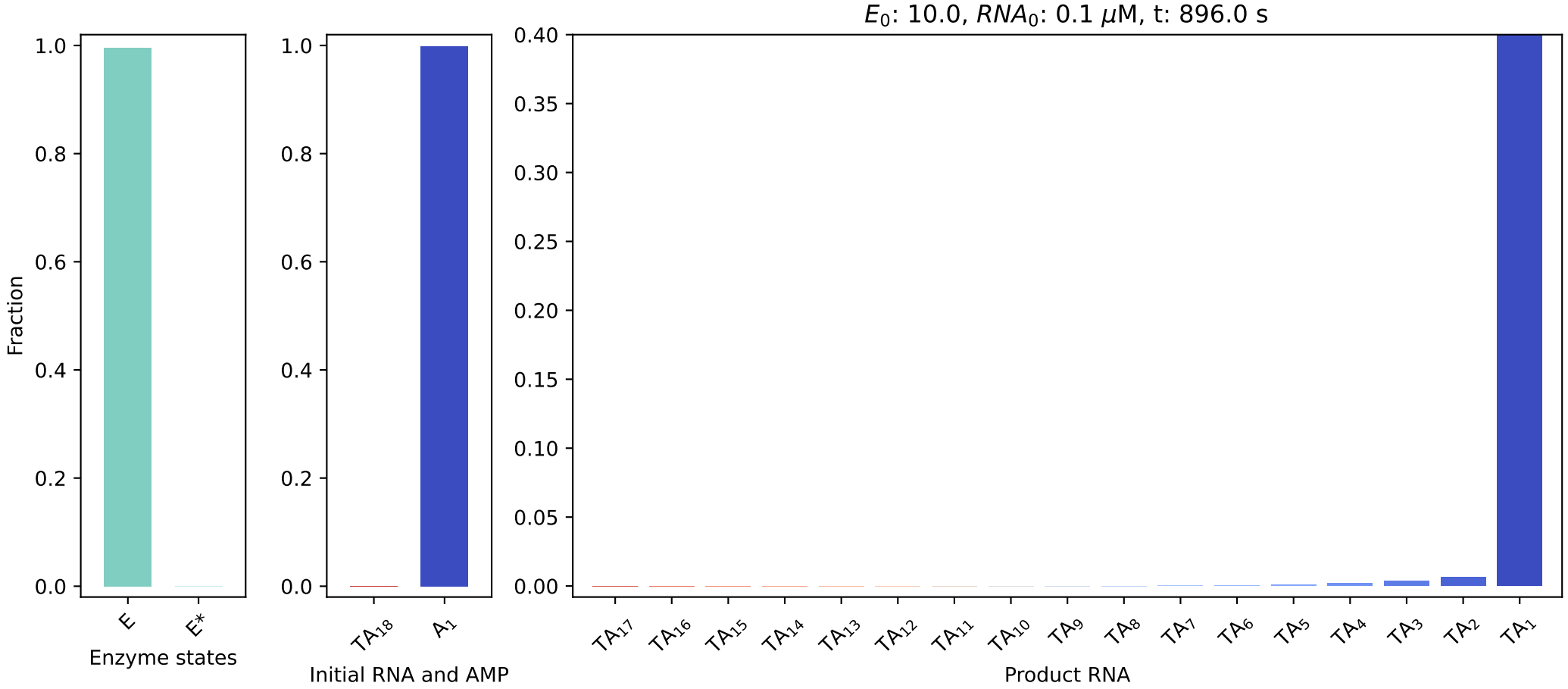
Product RNA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E*
Enzyme states
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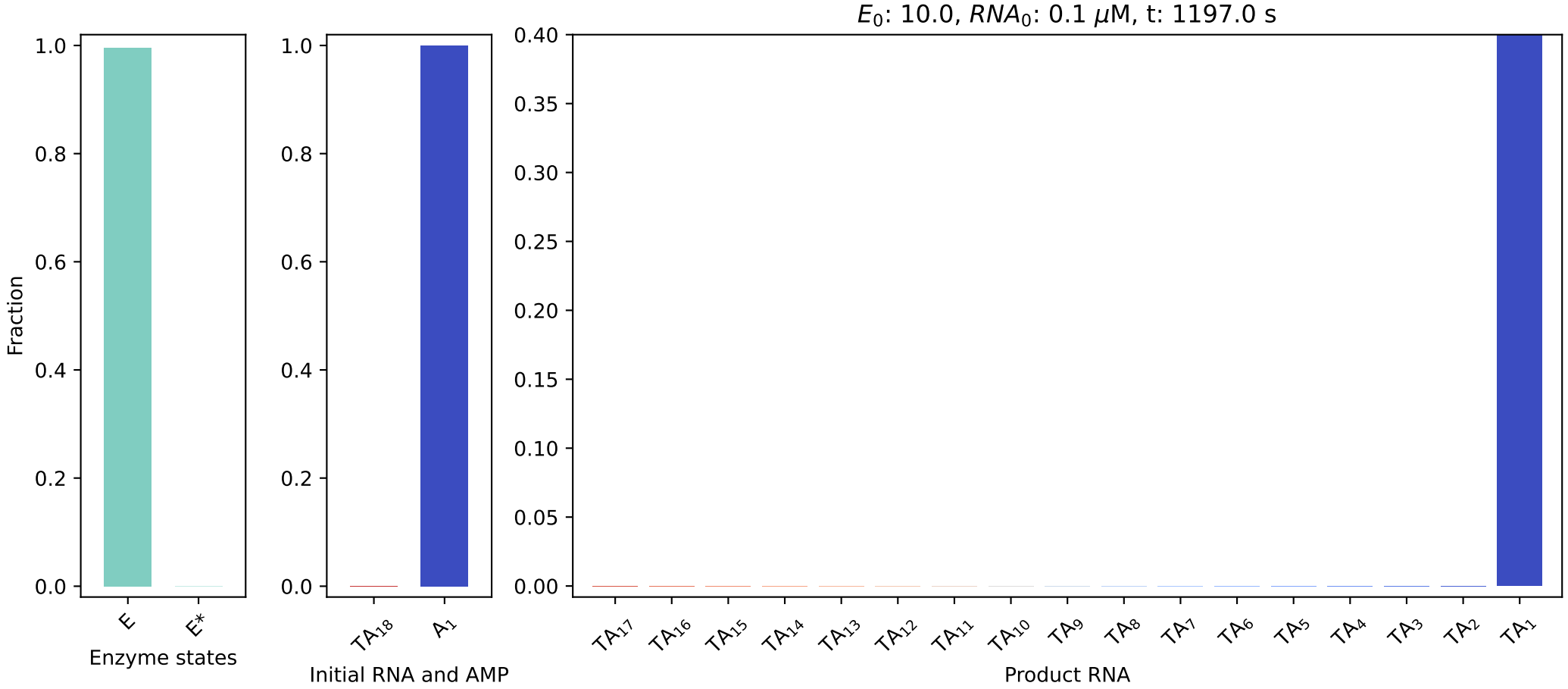
Product RNA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Enzyme states
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Initial RNA and AMP
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TA16
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TA2
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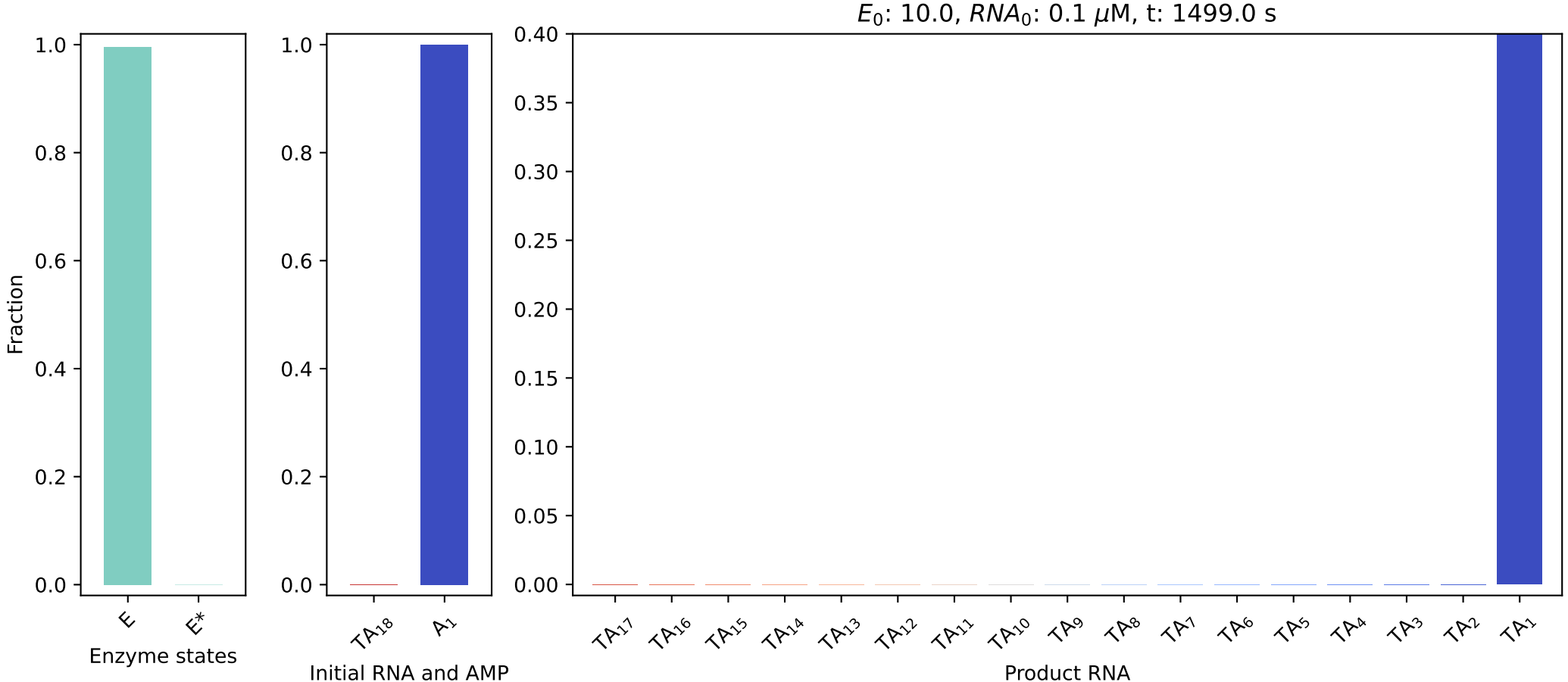
Product RNA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E*
Enzyme states
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Initial RNA and AMP
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TA17
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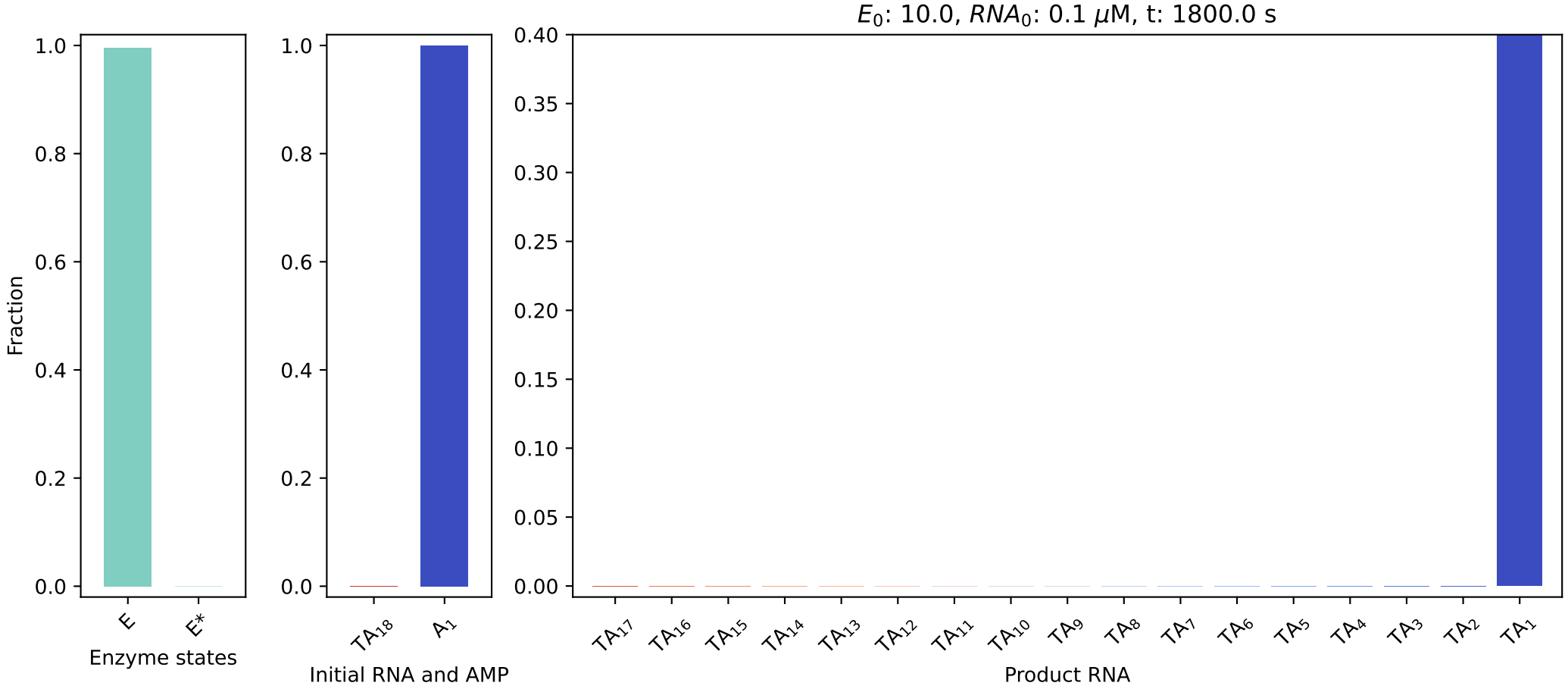
Product RNA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E*
Enzyme states
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TA_{18}
A_1
Initial RNA and AMP
0.40
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TA_{16}
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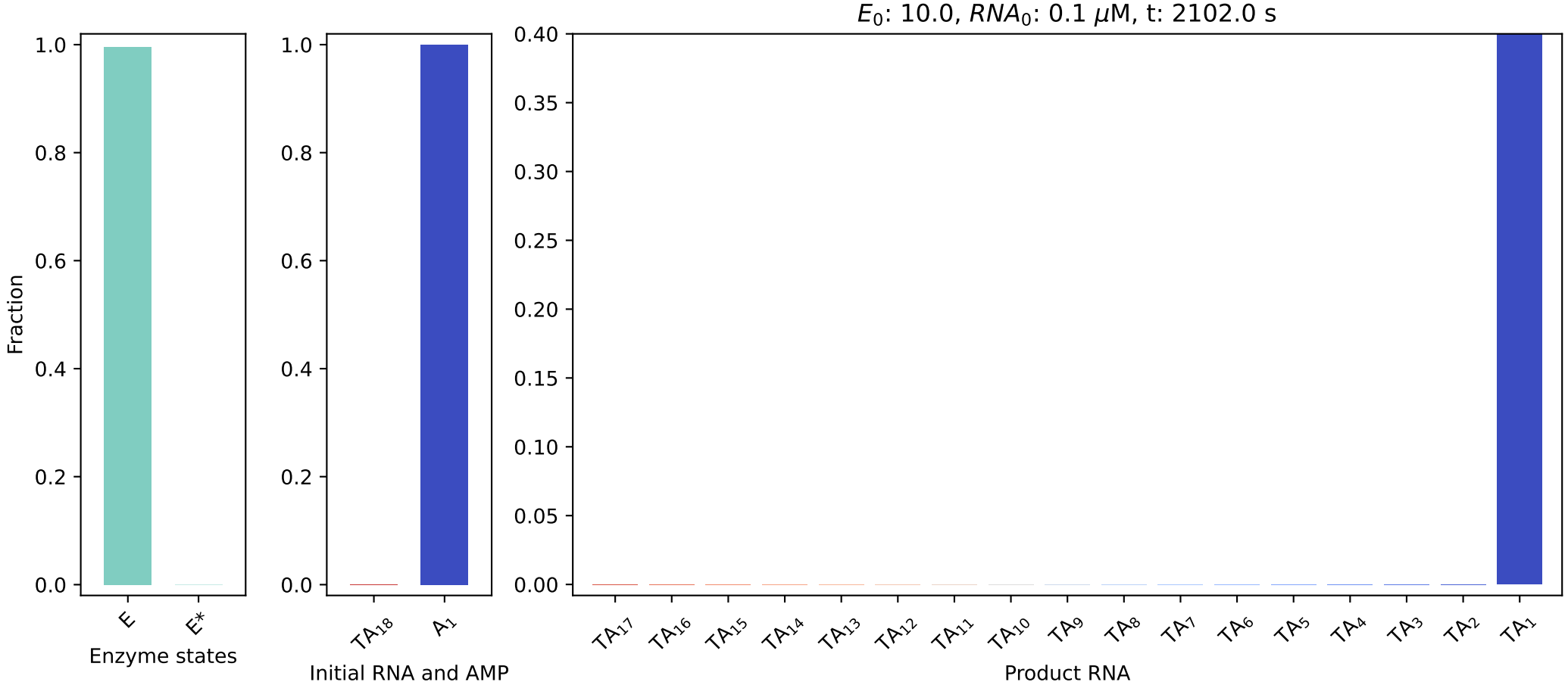
Product RNA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E
E*
Enzyme states
TA18
A1
Initial RNA and AMP
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0.30
0.25
0.20
0.15
0.10
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TA17
TA16
TA15
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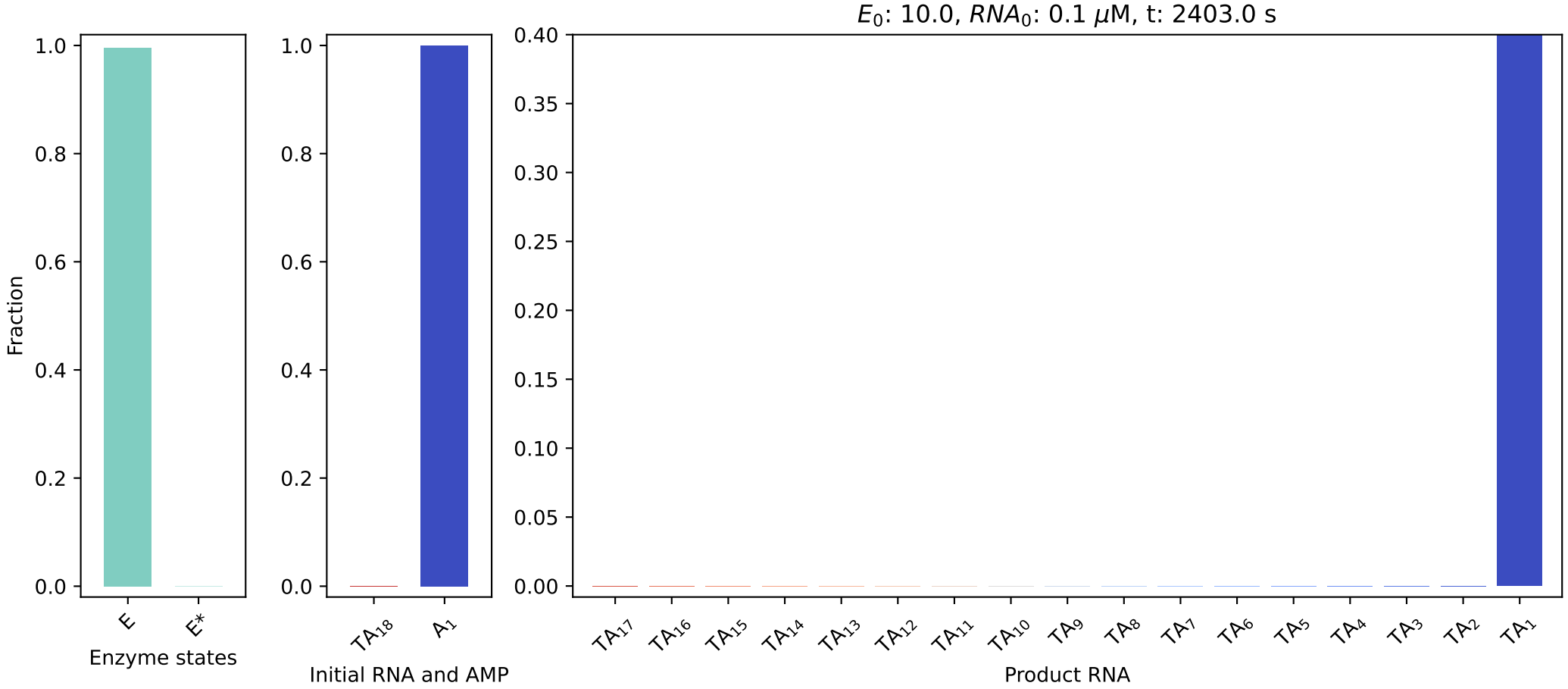
Product RNA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E
E*
Enzyme states
TA18
A1
Initial RNA and AMP
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0.30
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0.20
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TA17
TA16
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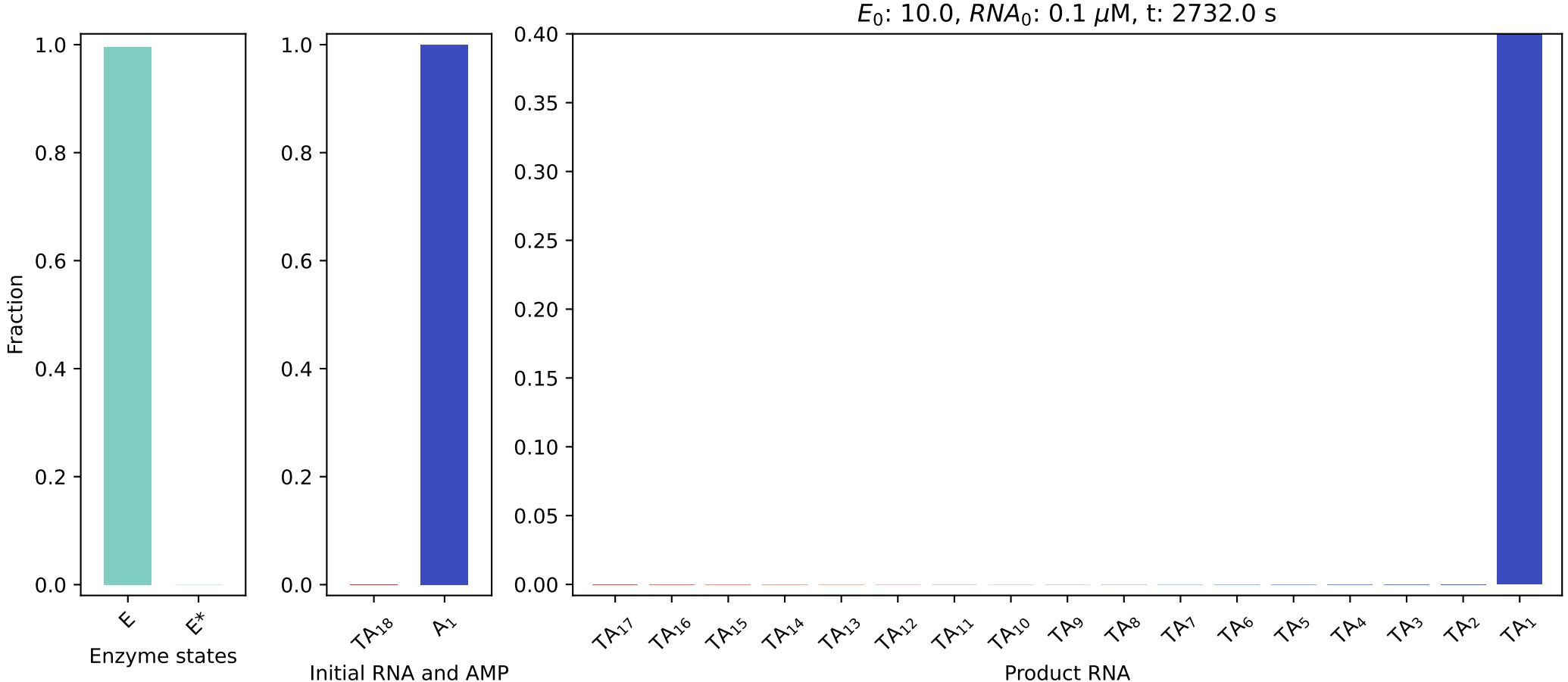
Product RNA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E
E*
Enzyme states
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Initial RNA and AMP
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0.30
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0.20
0.15
0.10
0.05
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TA17
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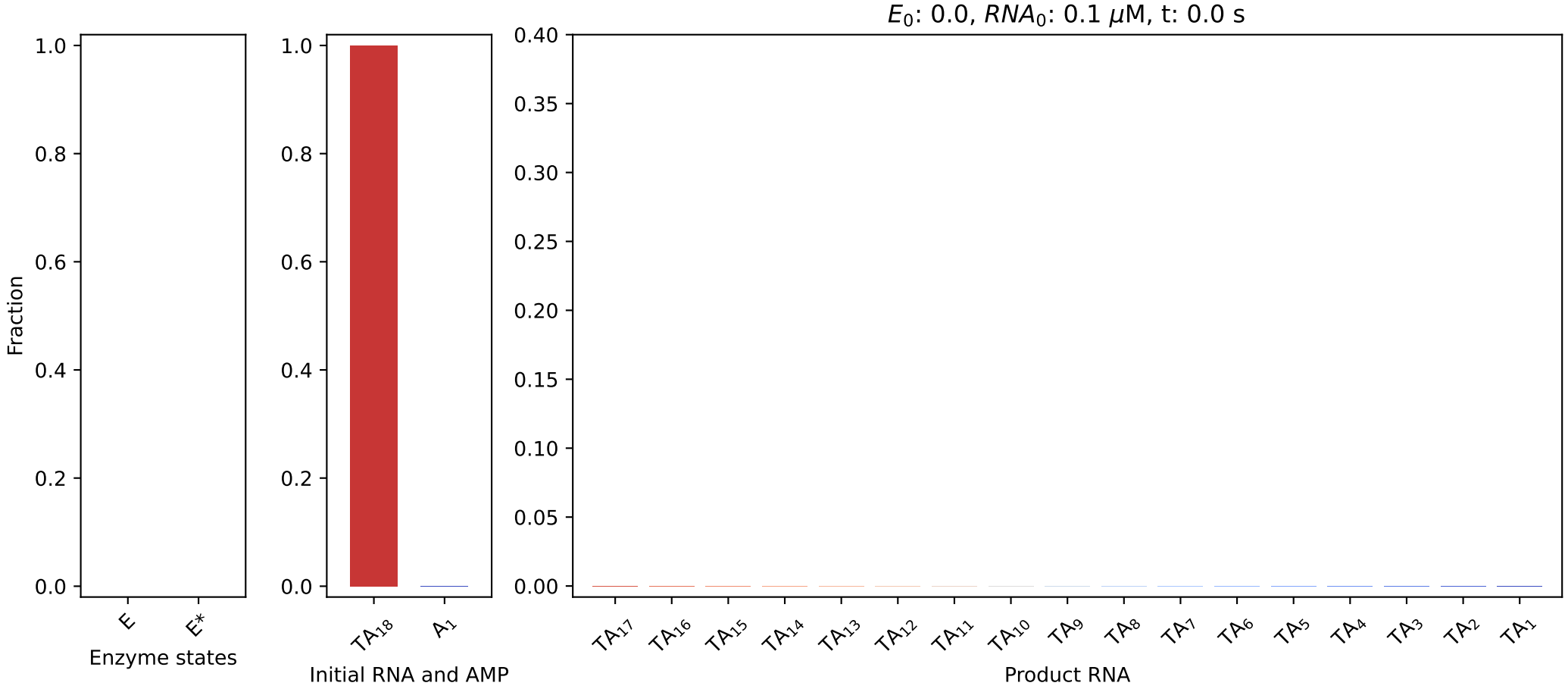
Product RNA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0.2
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E
E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
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0.20
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0.00
TA_{17}
TA_{16}
TA_{15}
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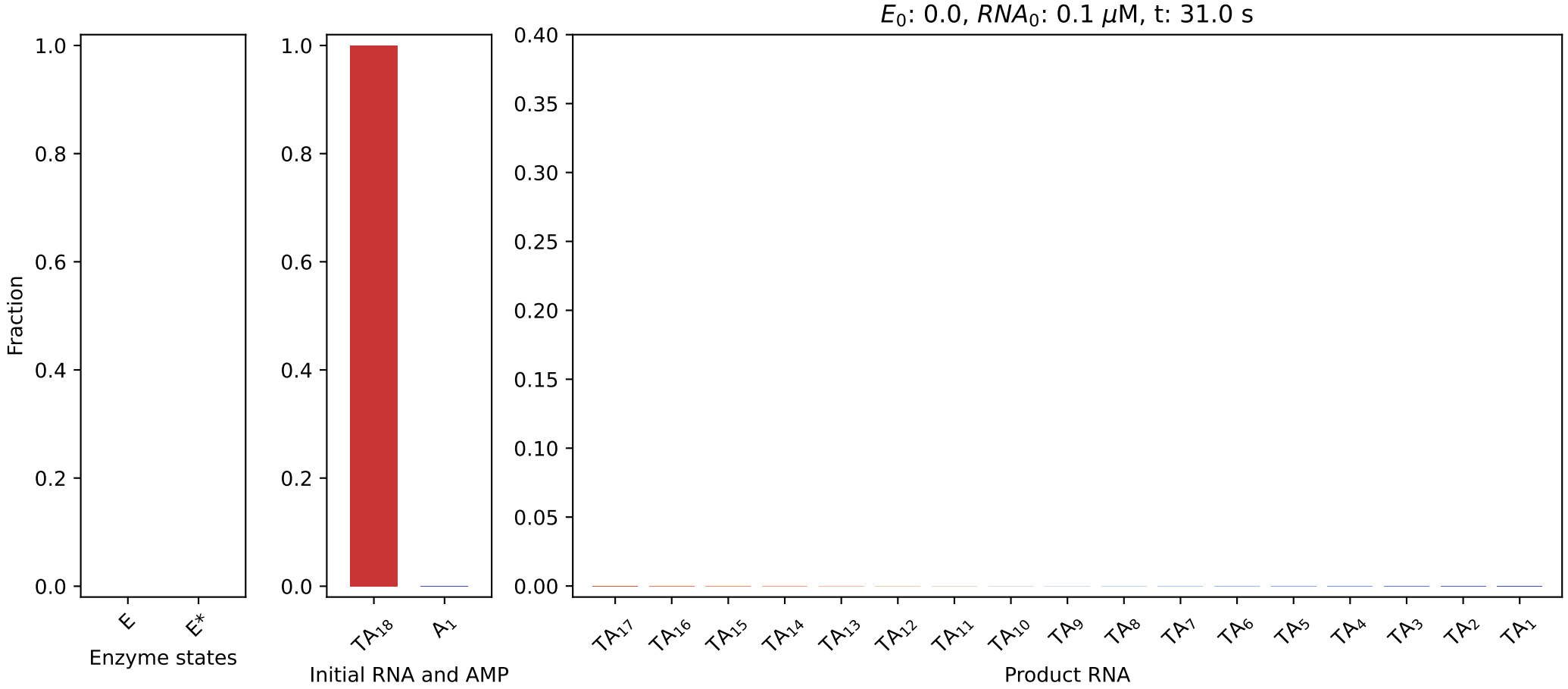
TA_1
Product RNA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E
E*
Enzyme states
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0.4
0.2
0.0
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
TA_{15}
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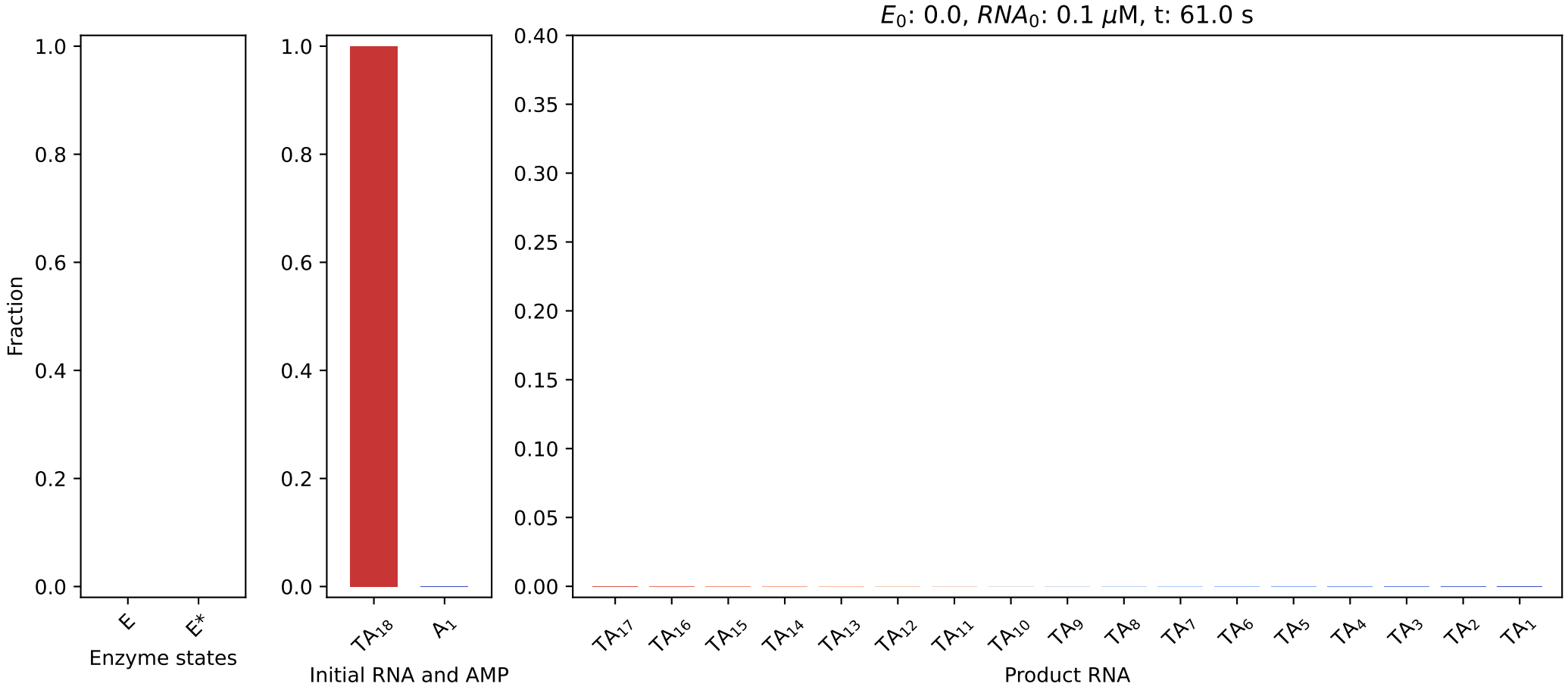
Product RNA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E
E*
Enzyme states
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A_1
Initial RNA and AMP
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0.30
0.25
0.20
0.15
0.10
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TA_{17}
TA_{16}
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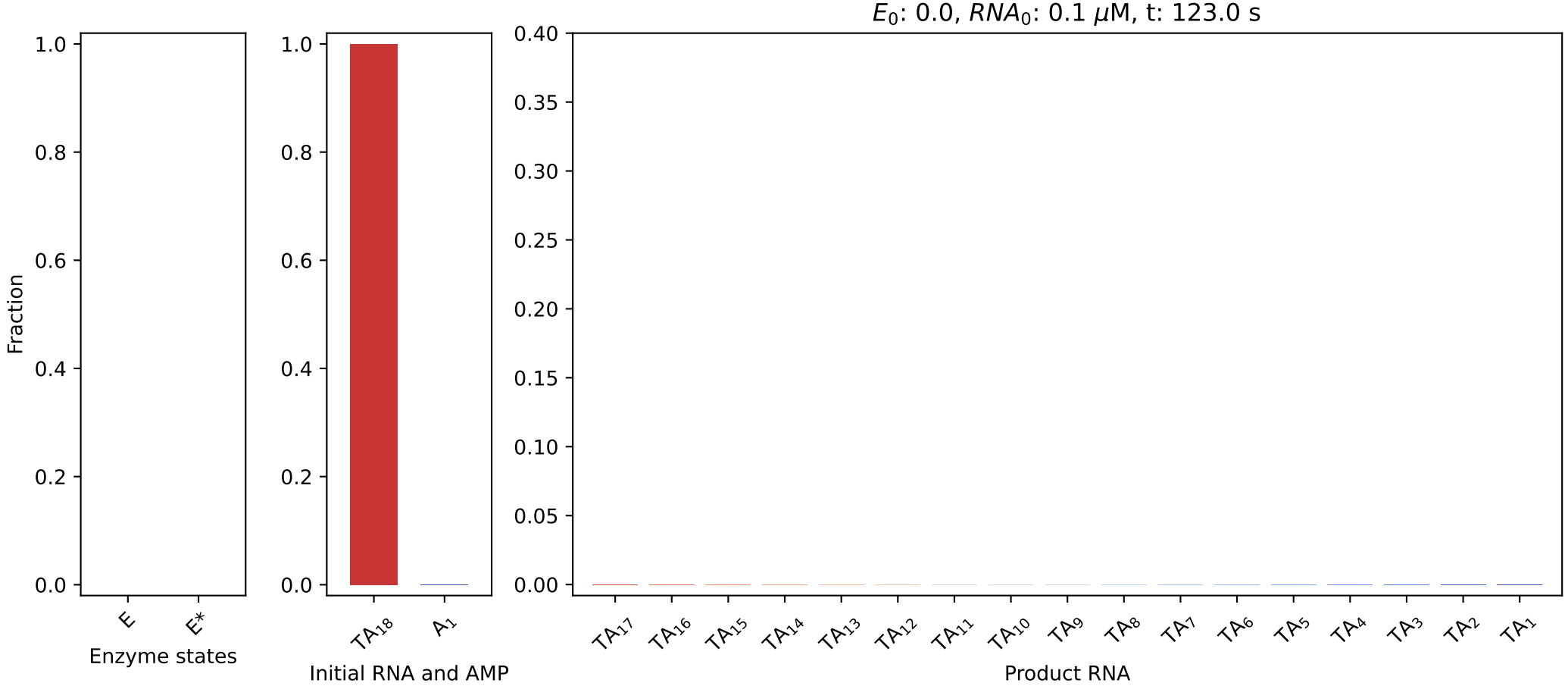
Product RNA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0.2
0.0
E
E*
Enzyme states
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A_1
Initial RNA and AMP
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0.35
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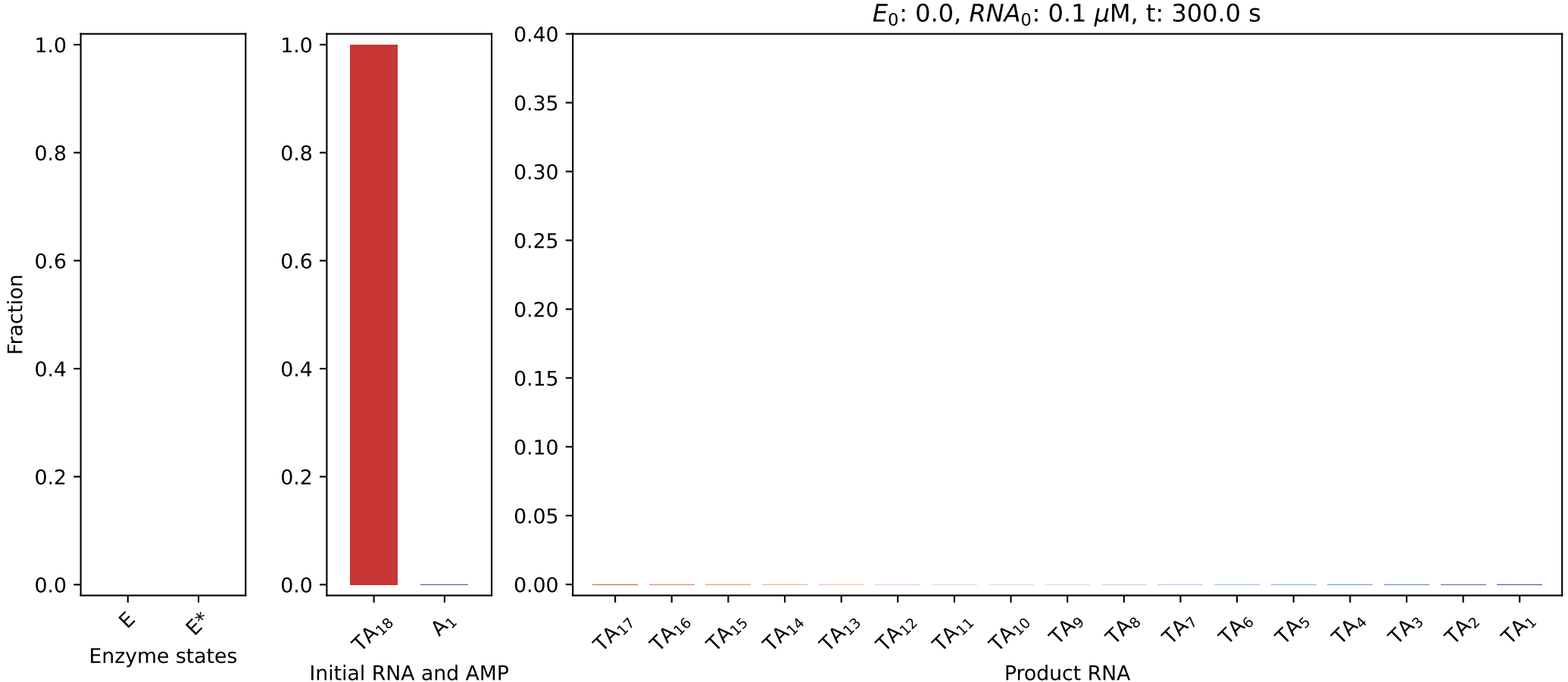
Product RNA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A_1
Initial RNA and AMP
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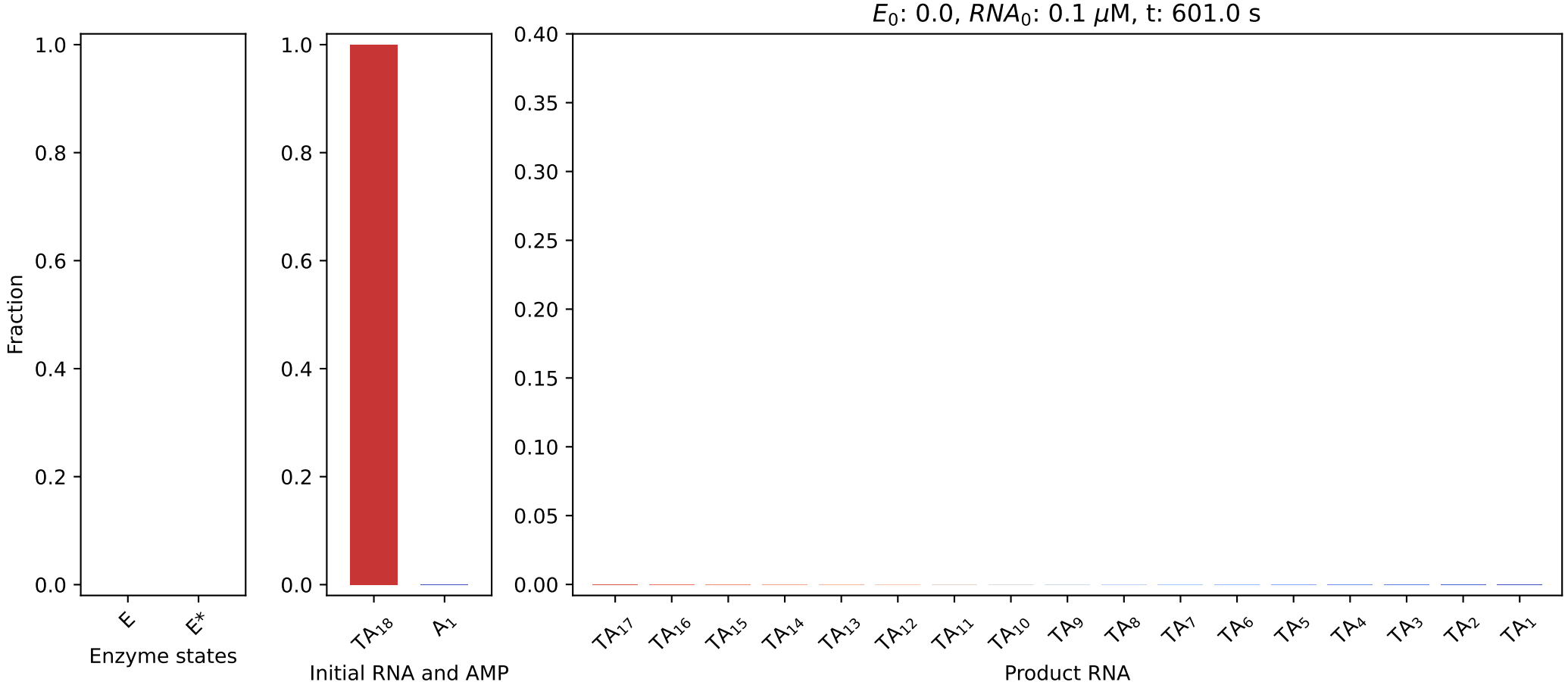
Product RNA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A_1
Initial RNA and AMP
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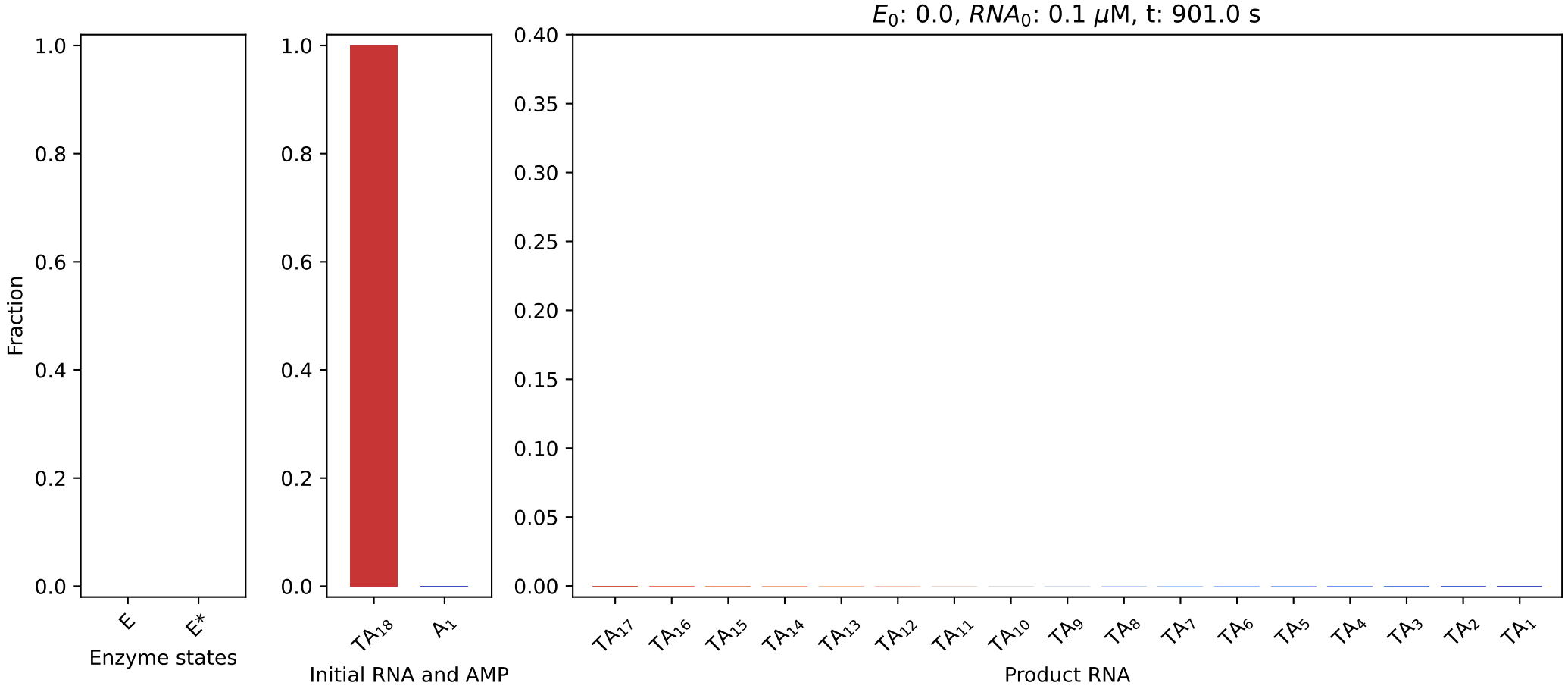
Product RNA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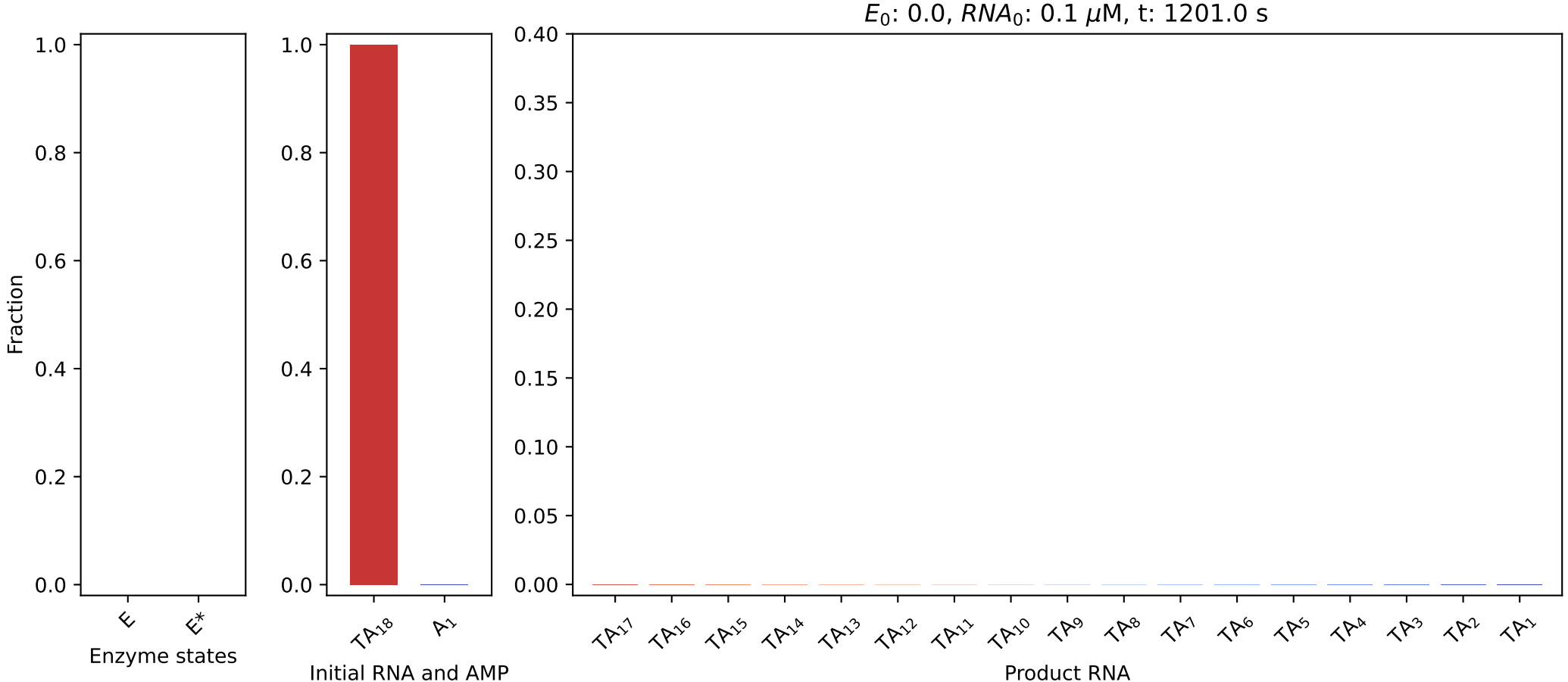
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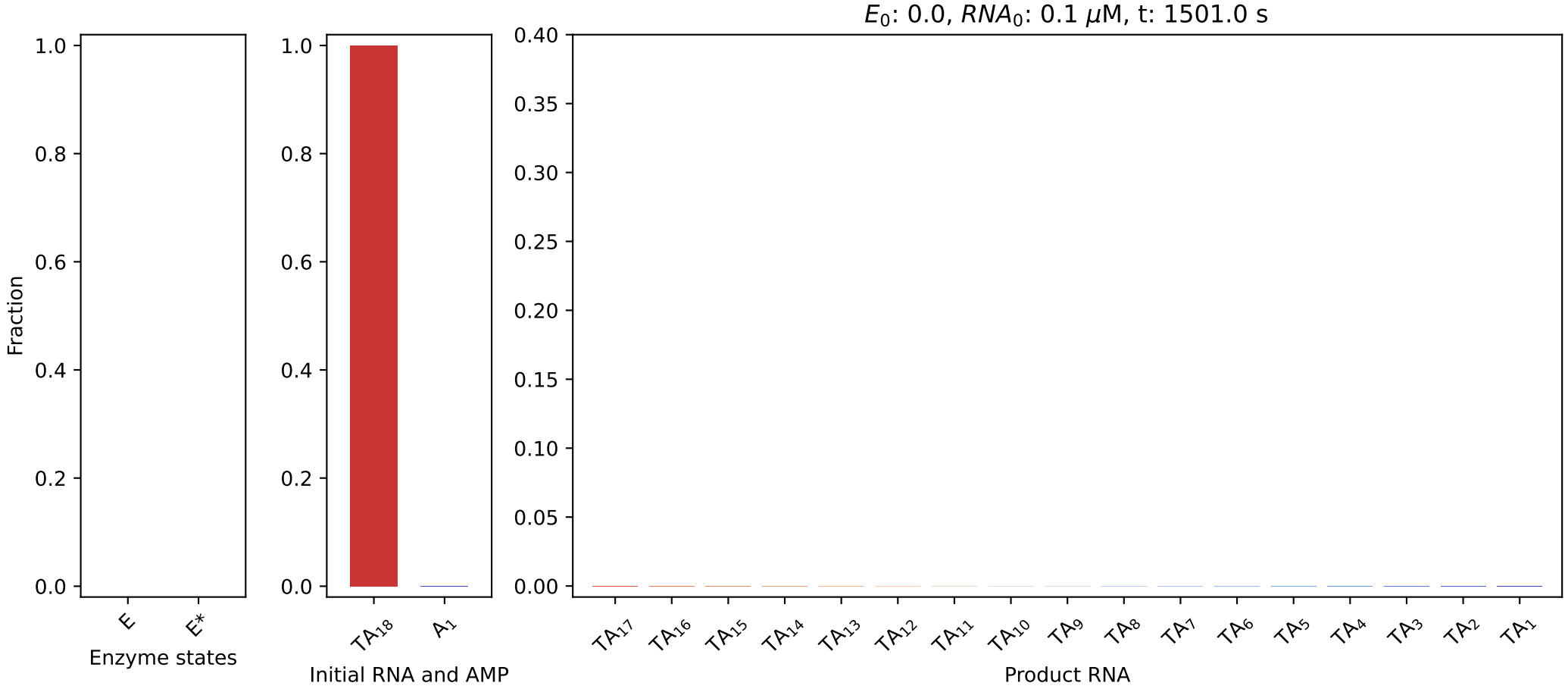
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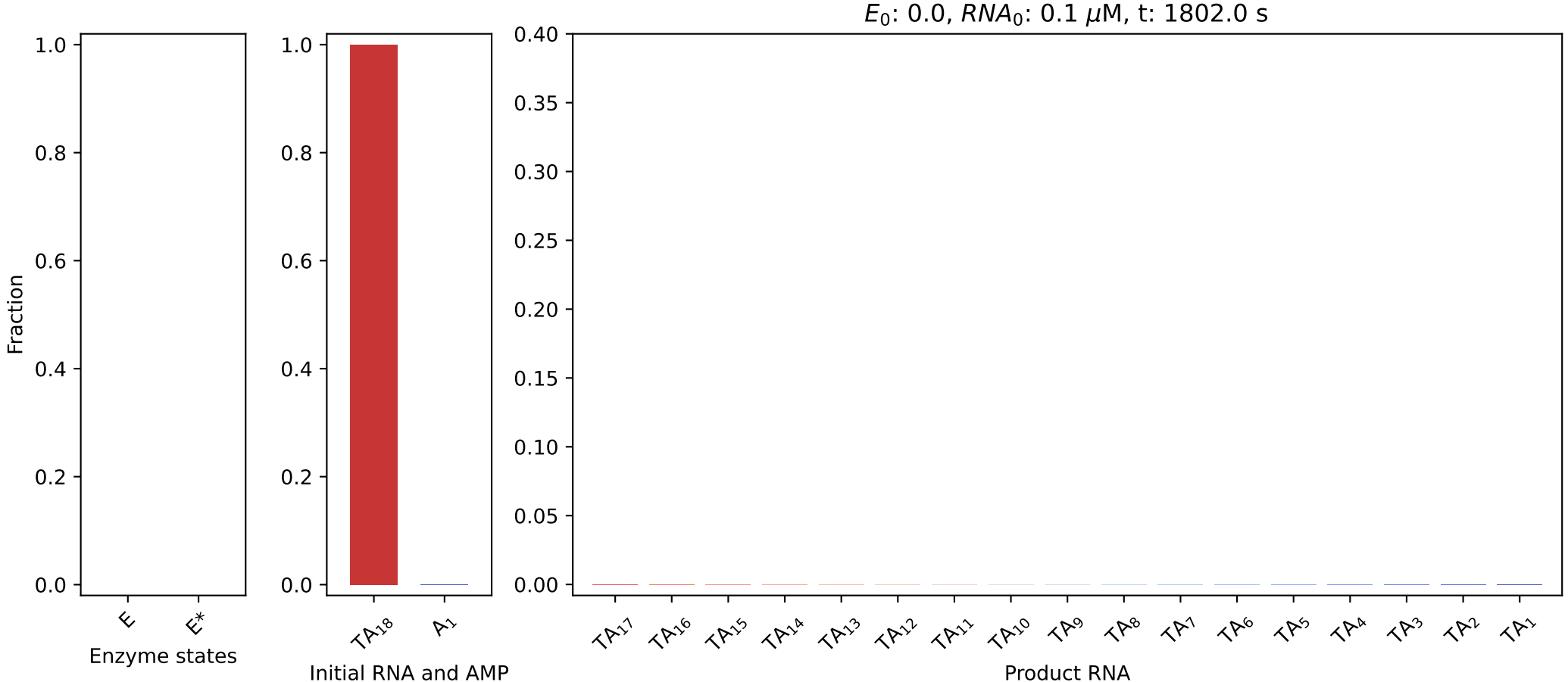
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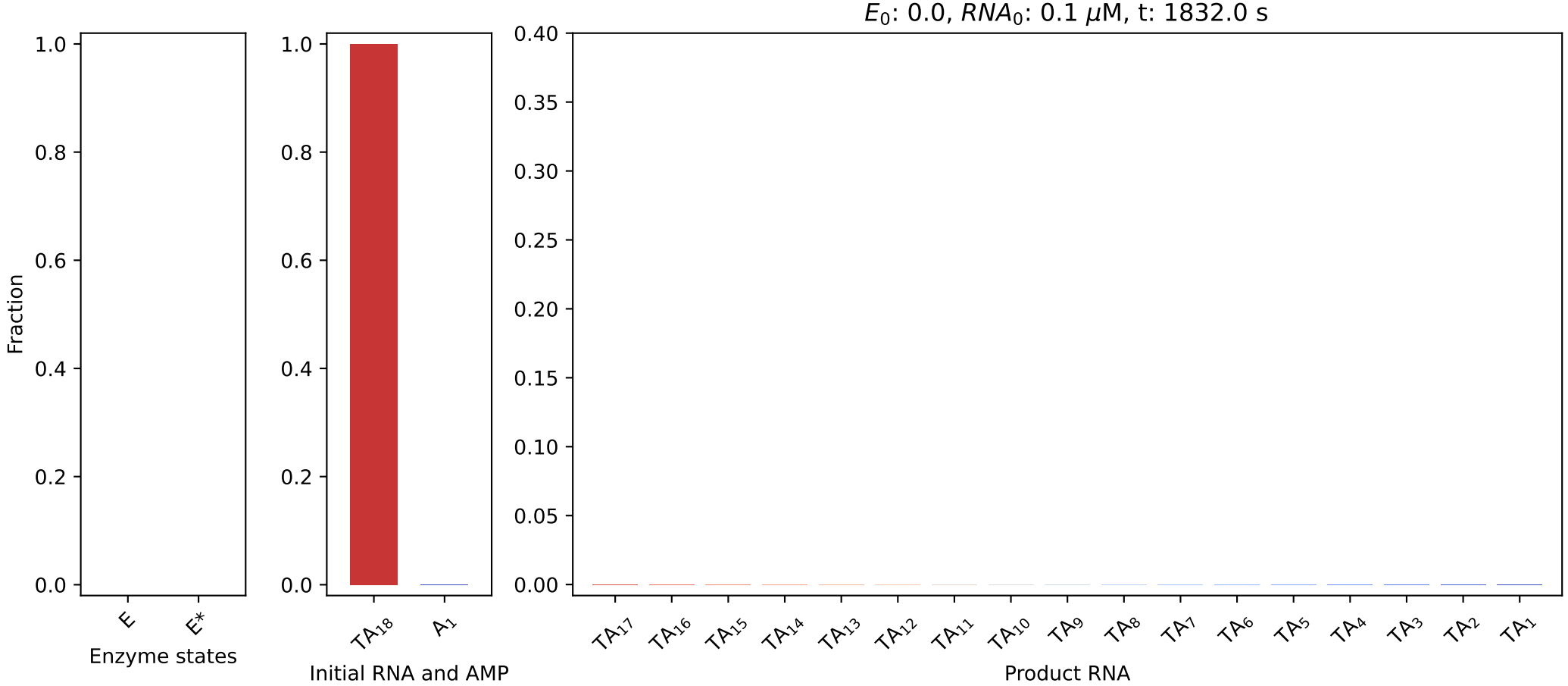
Product RNA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Initial RNA and AMP
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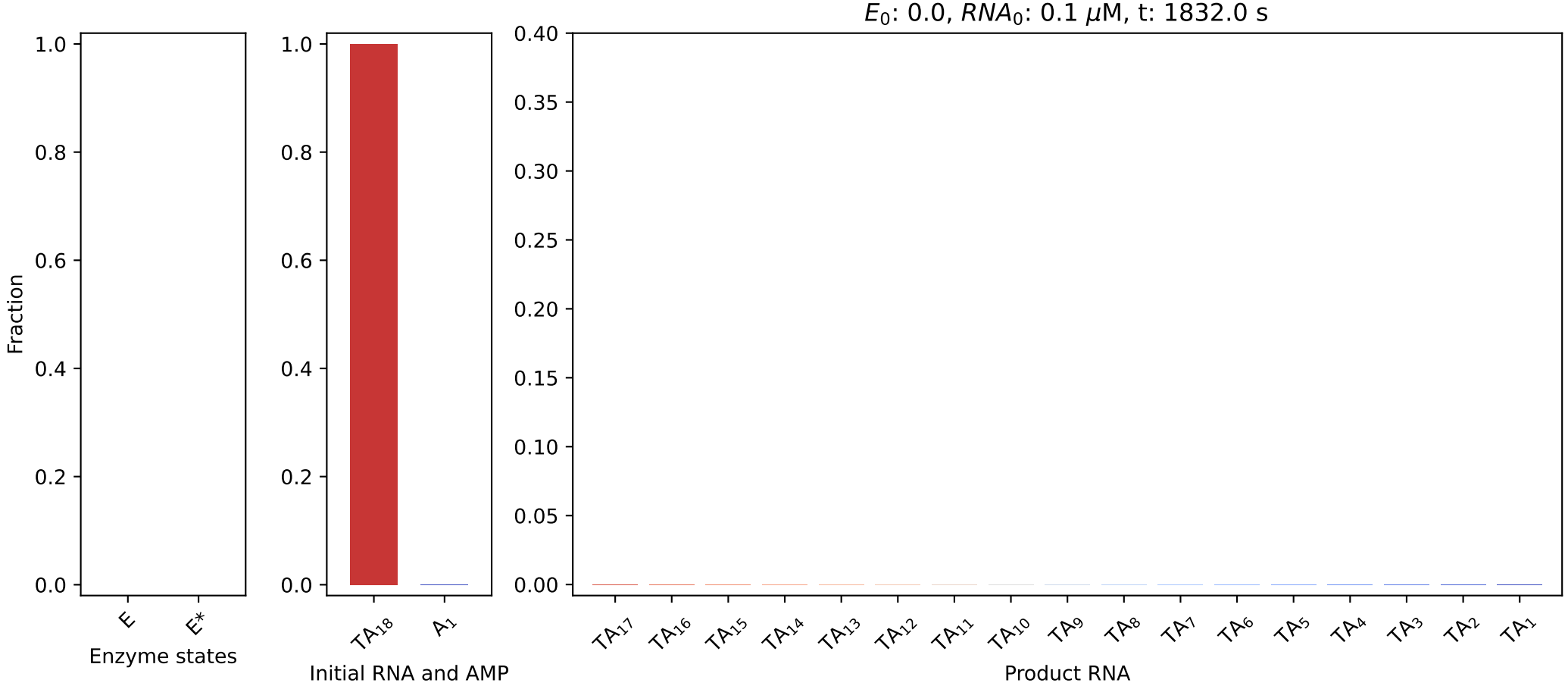
Product RNA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Enzyme states
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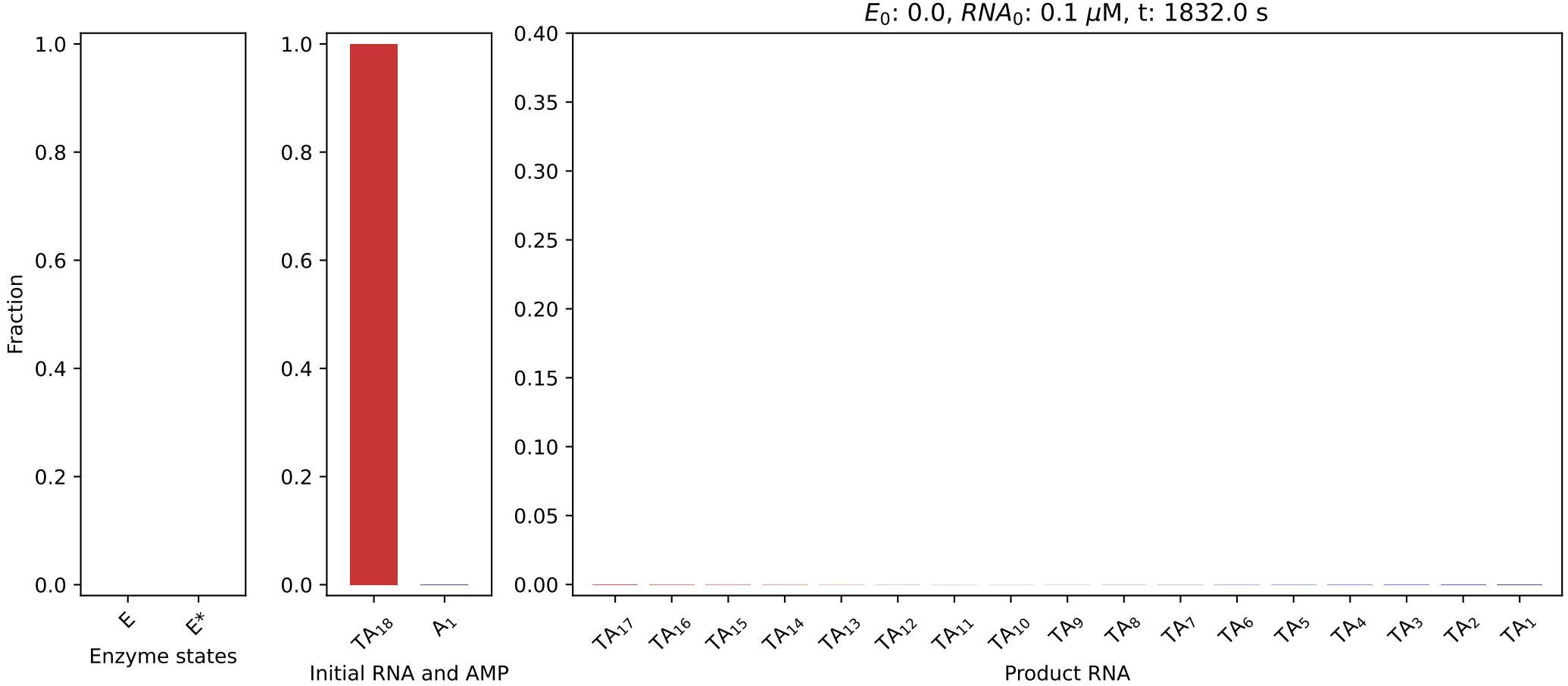
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Enzyme states
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A_1
Initial RNA and AMP
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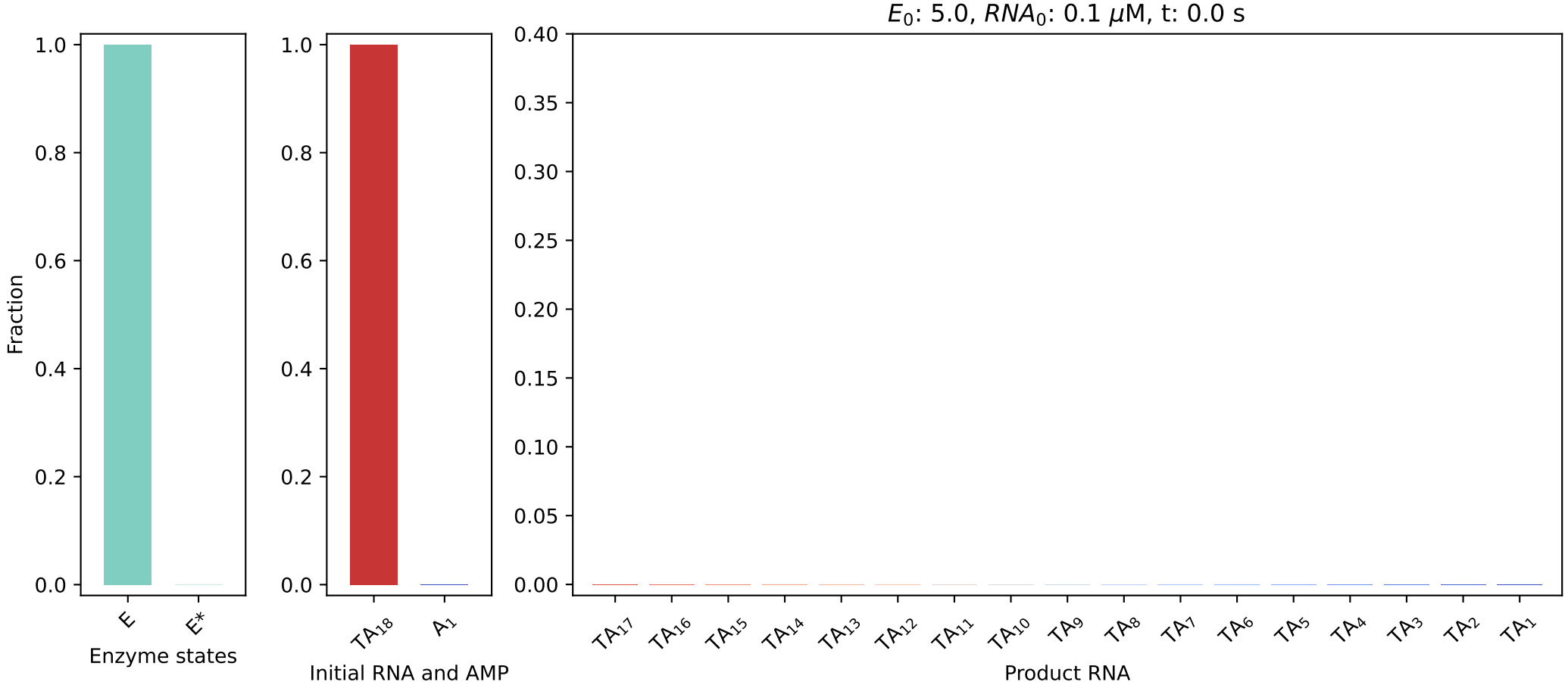
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Enzyme states
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Initial RNA and AMP
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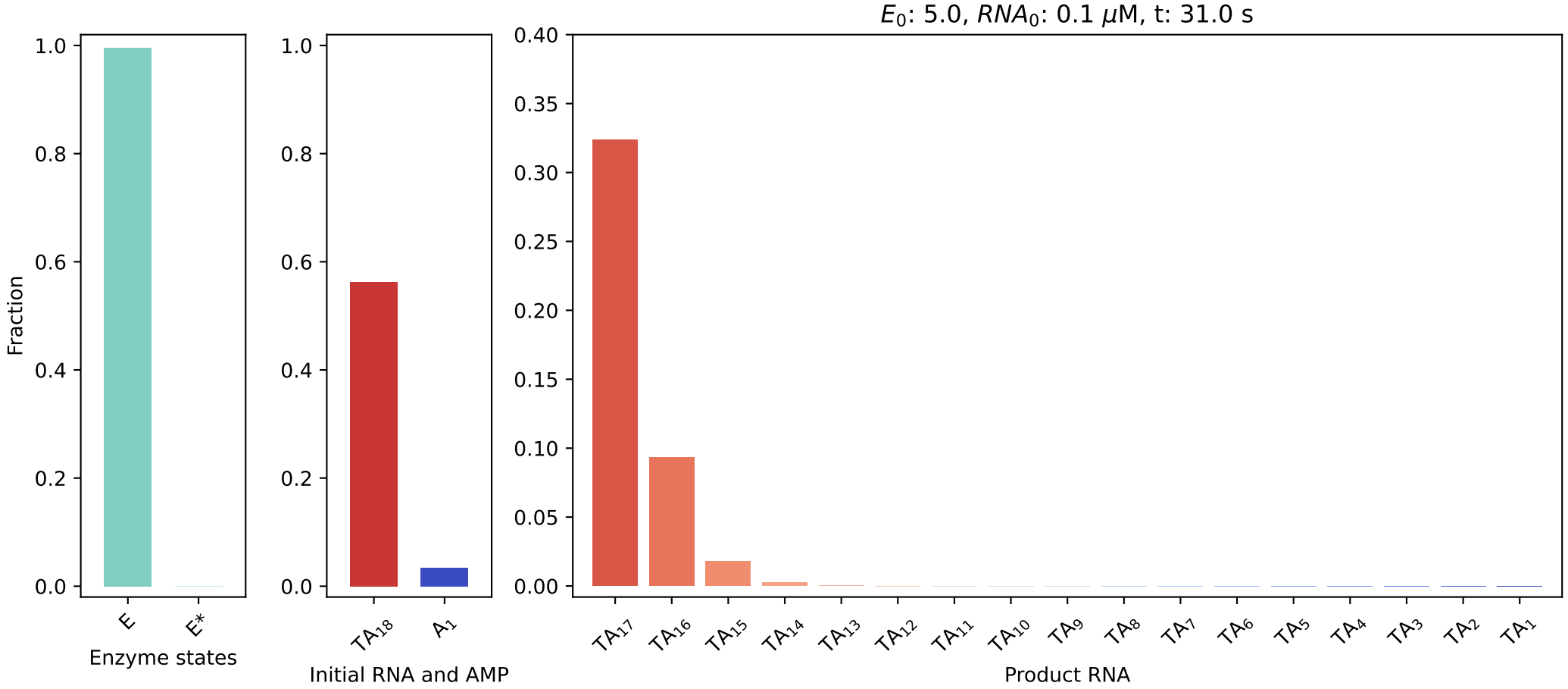
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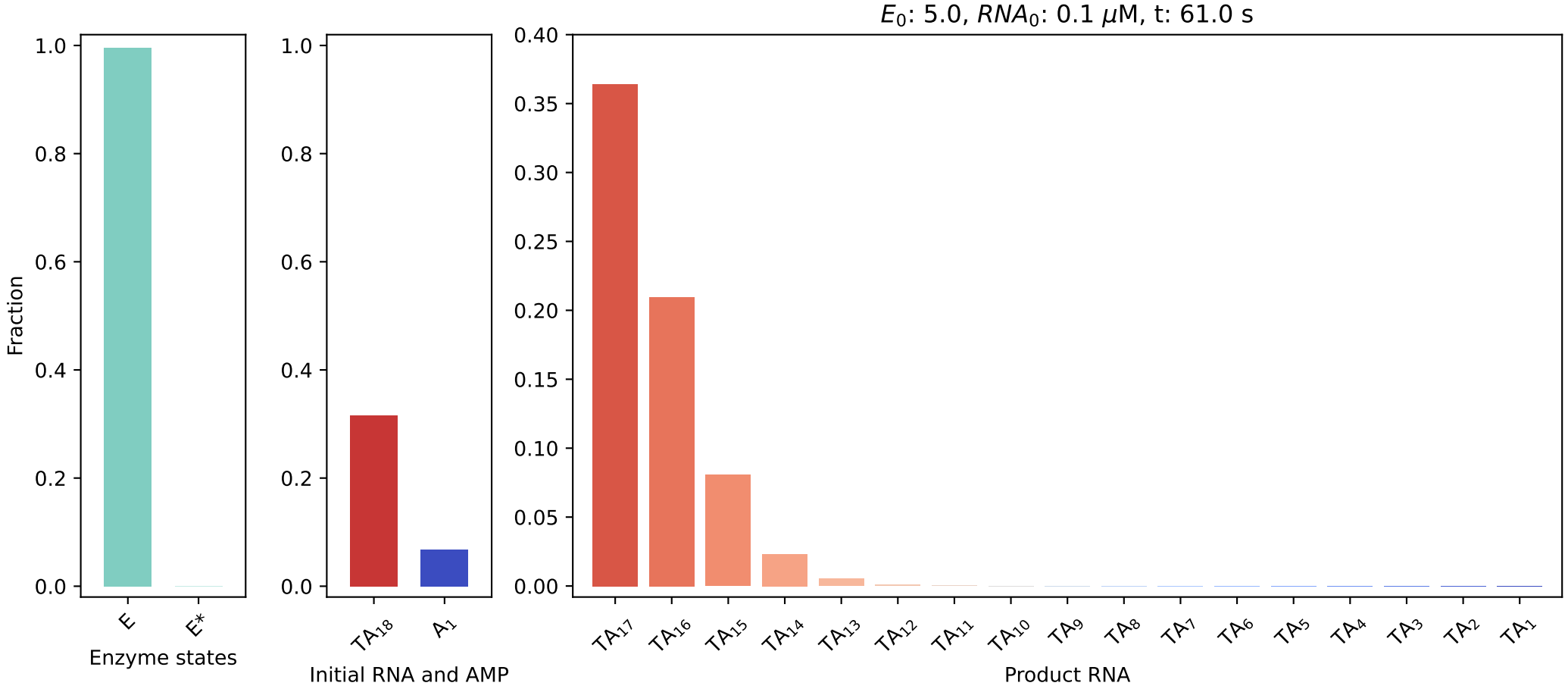
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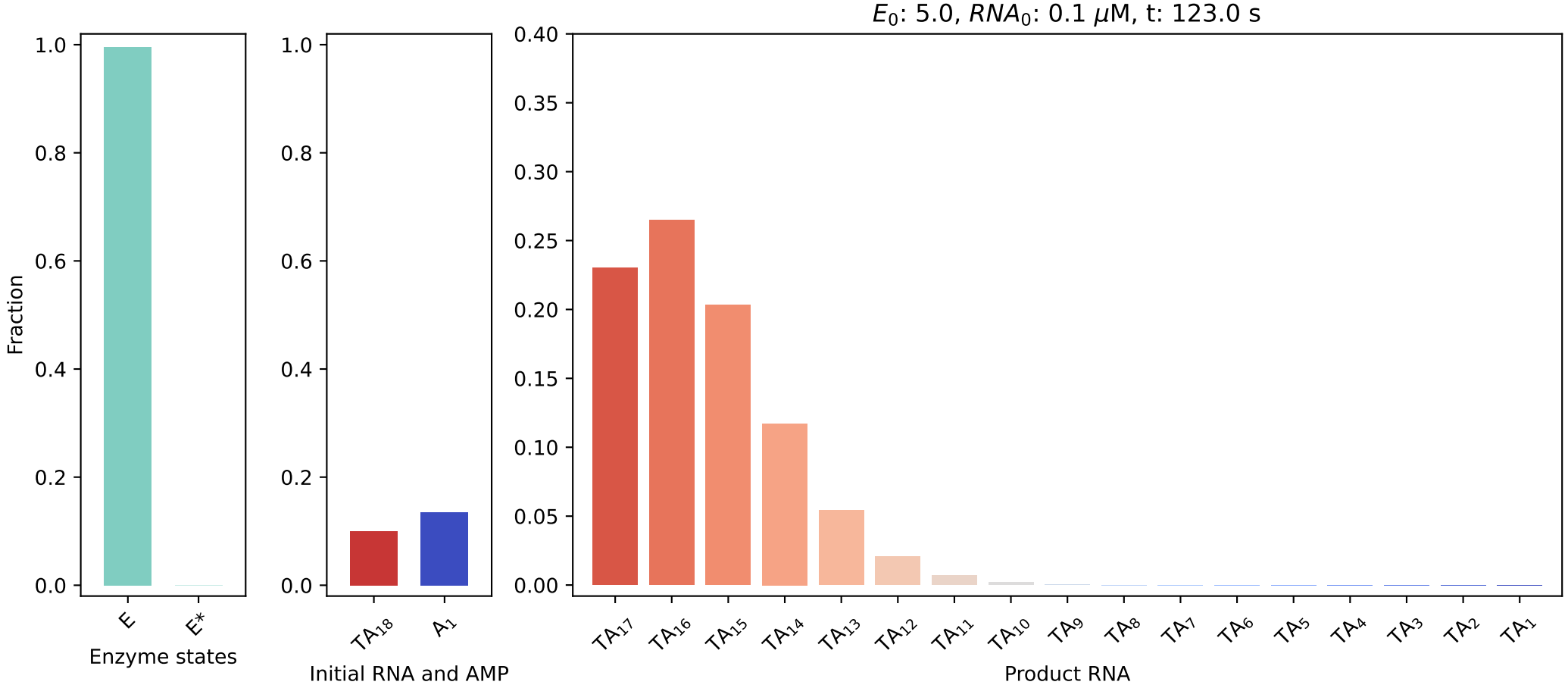
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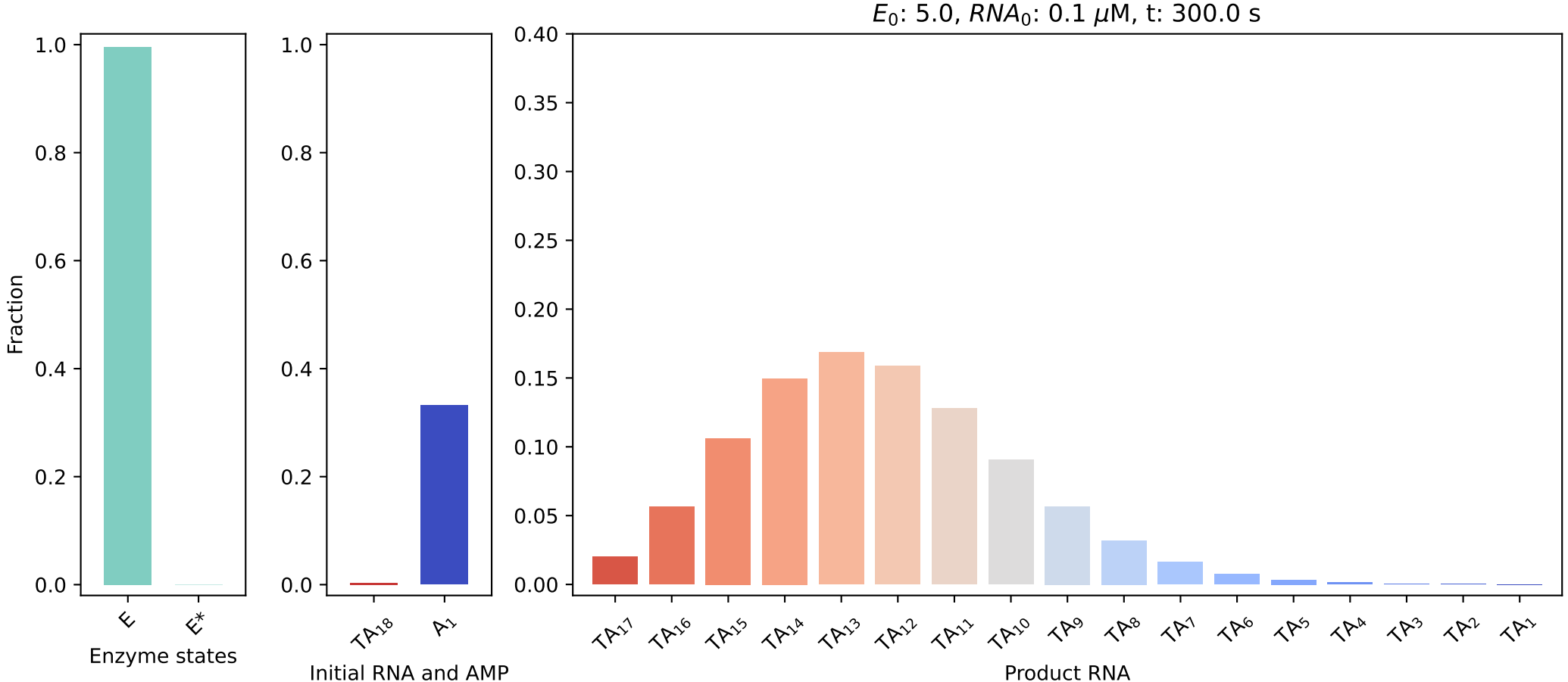
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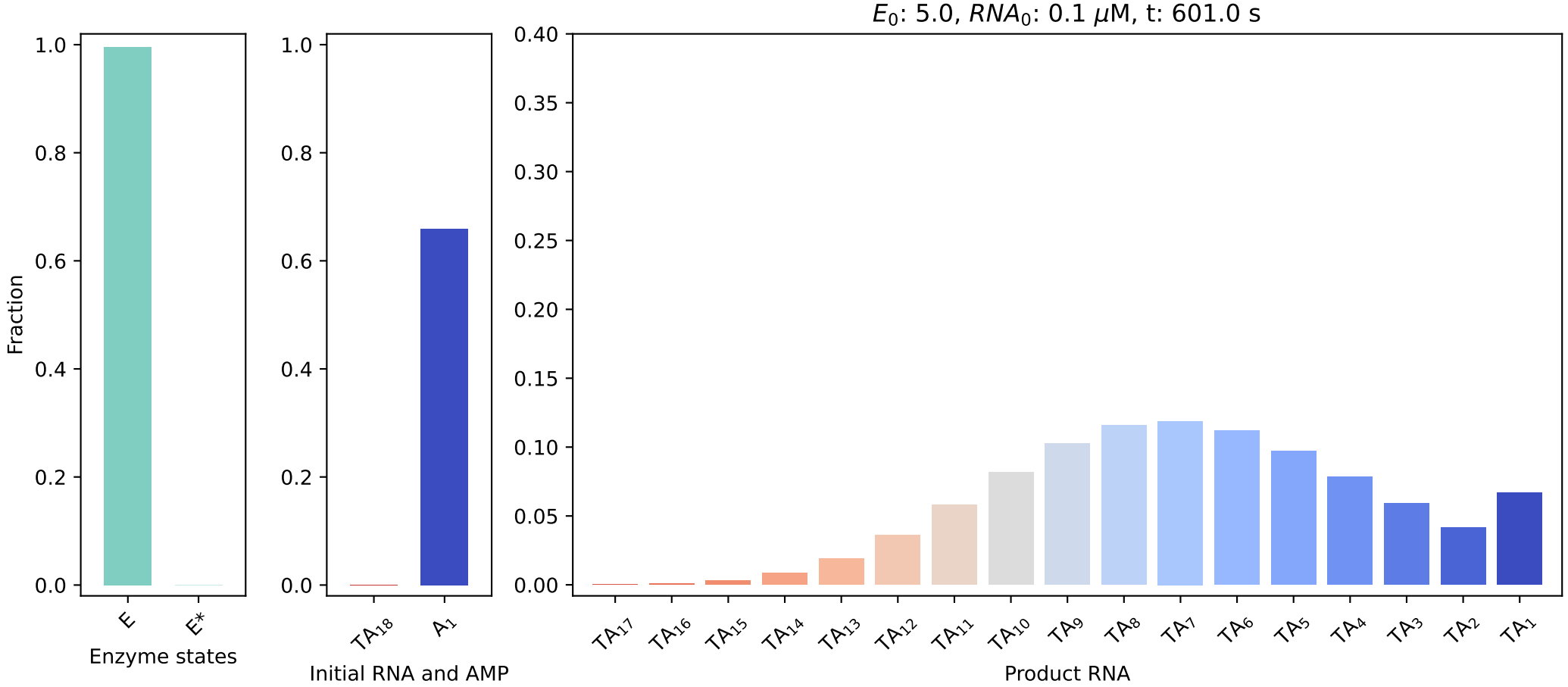
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Enzyme states
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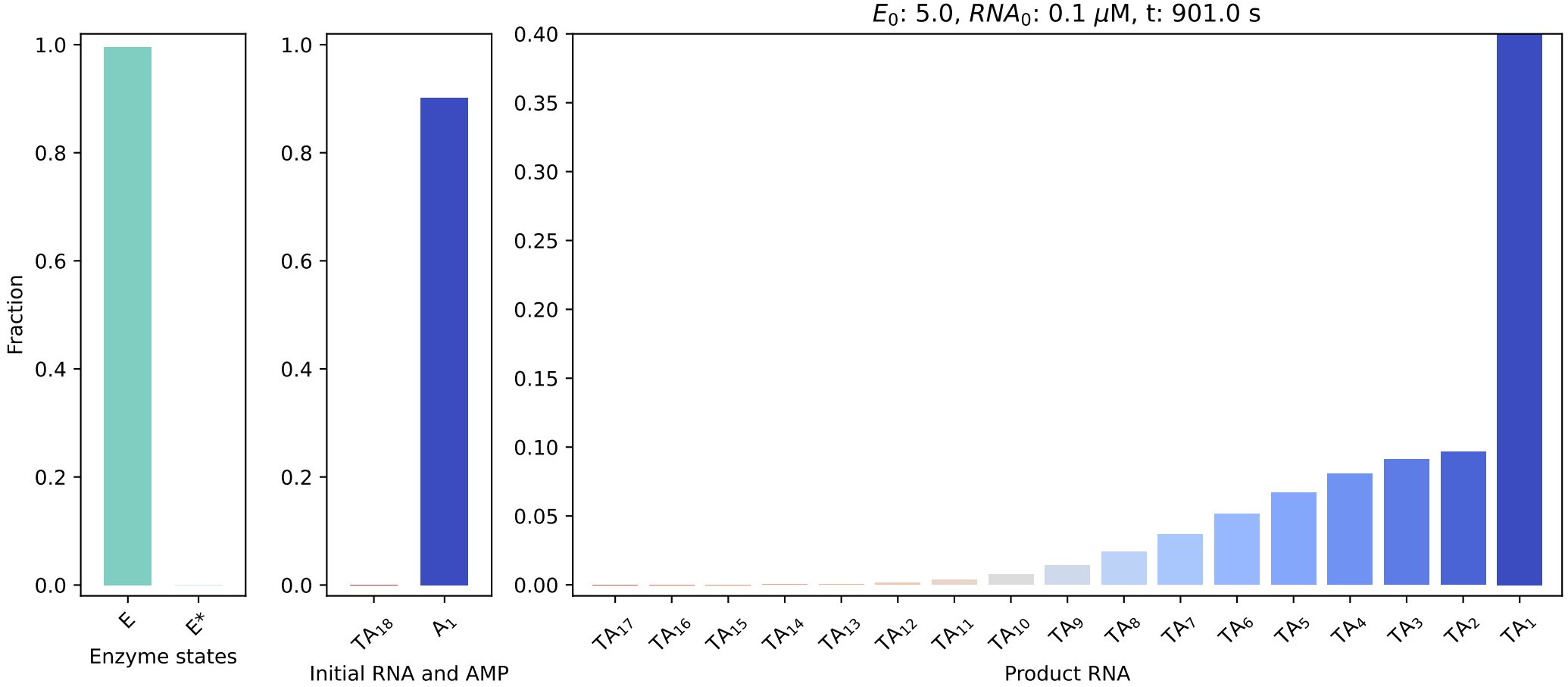
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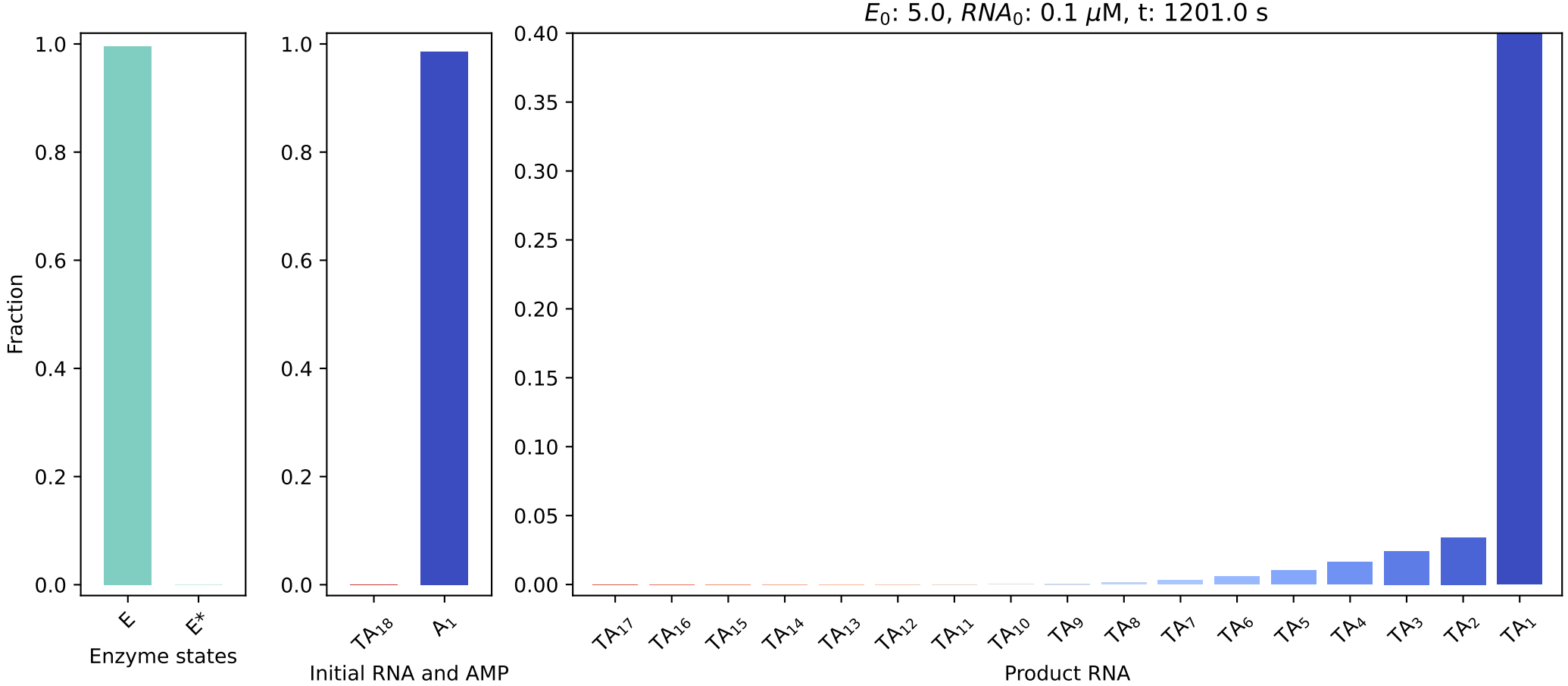
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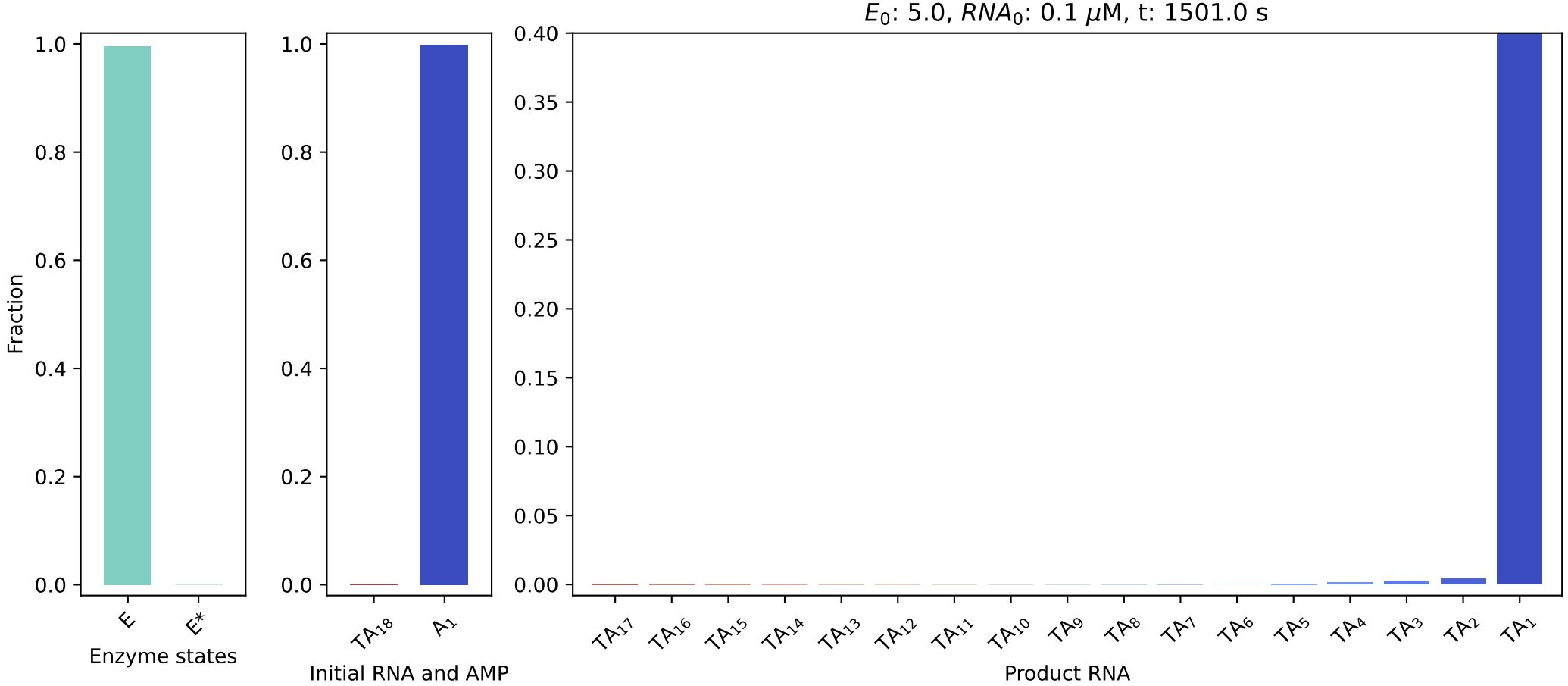
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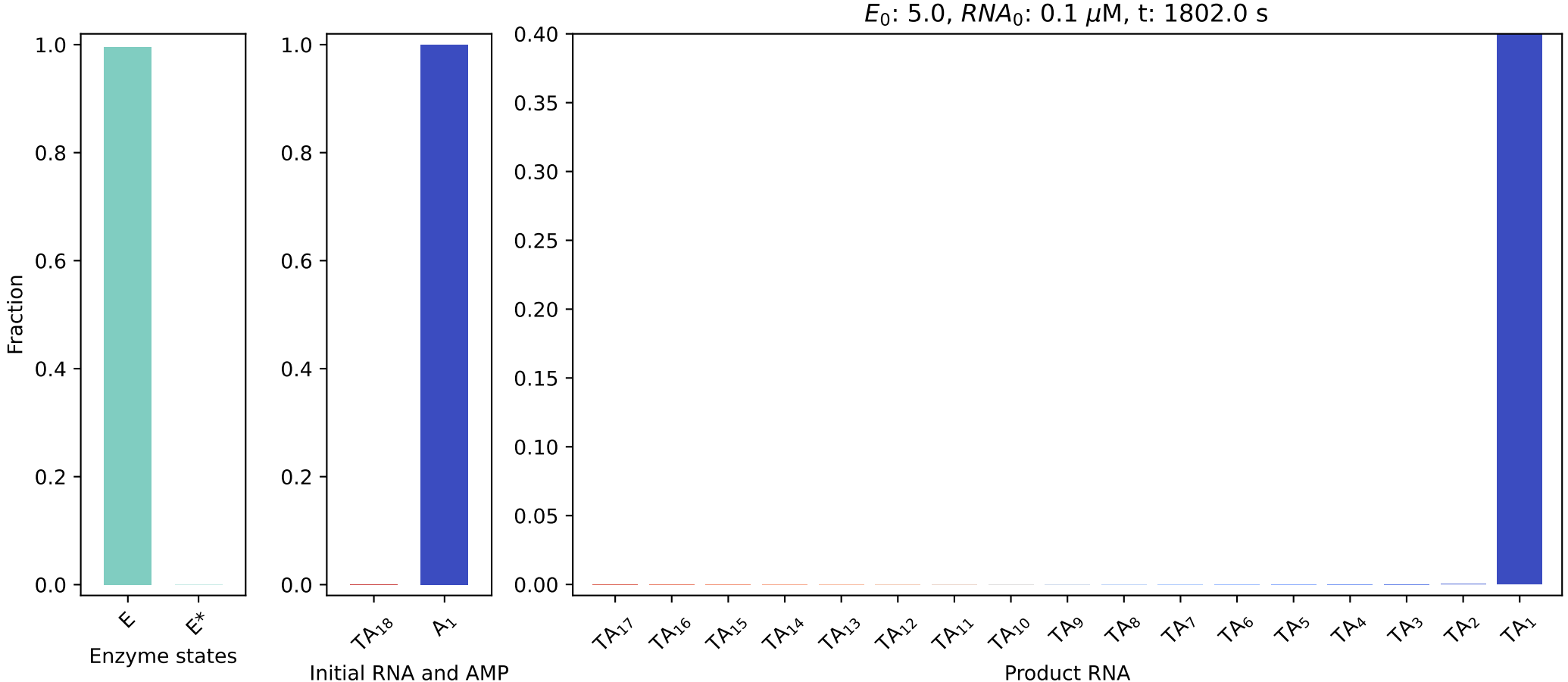
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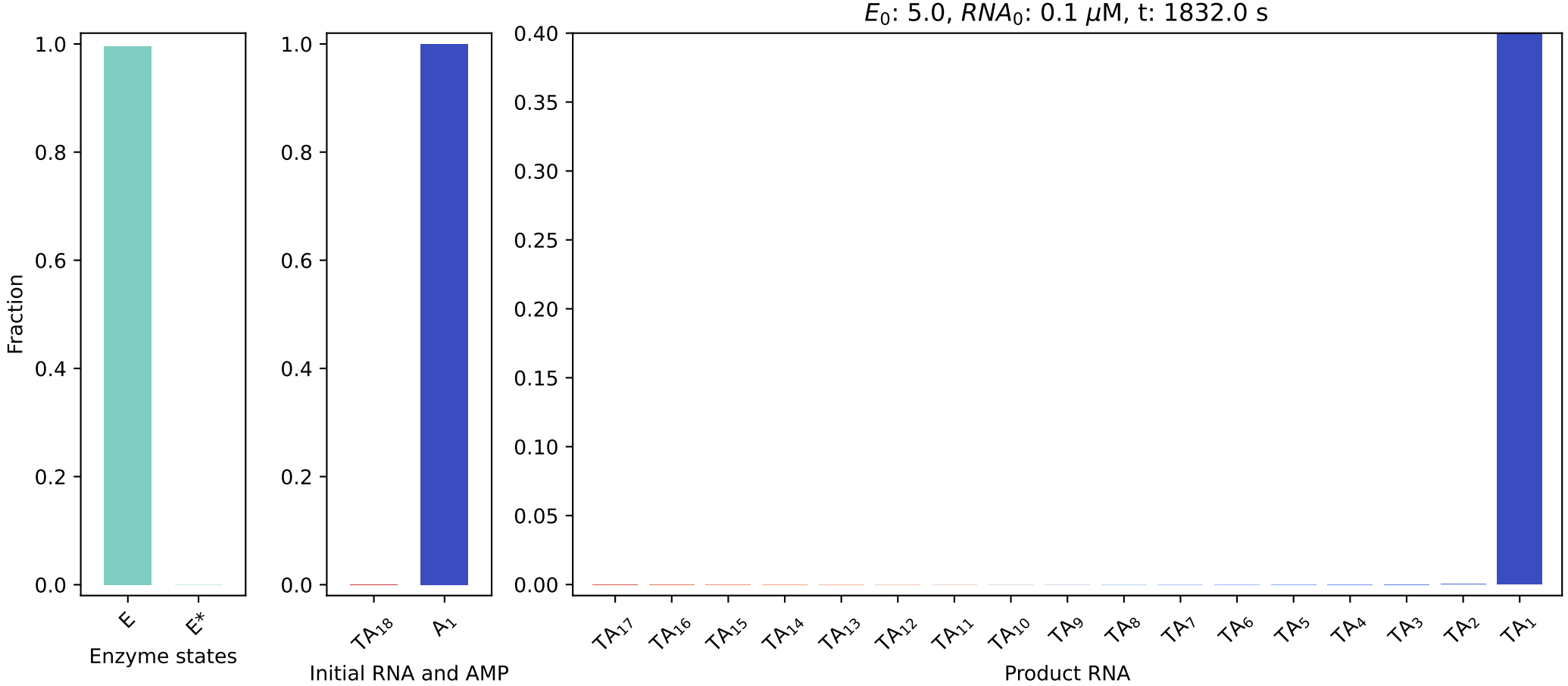
Product RNA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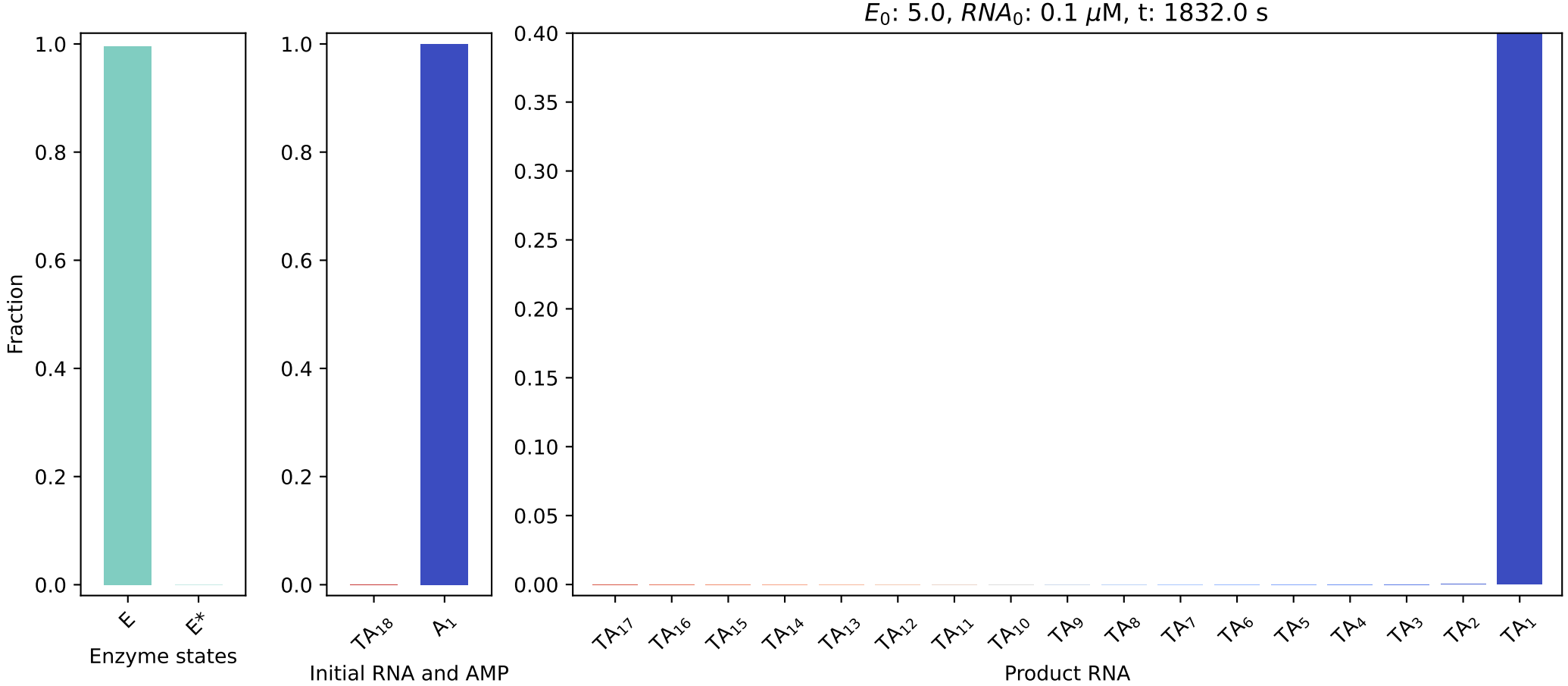
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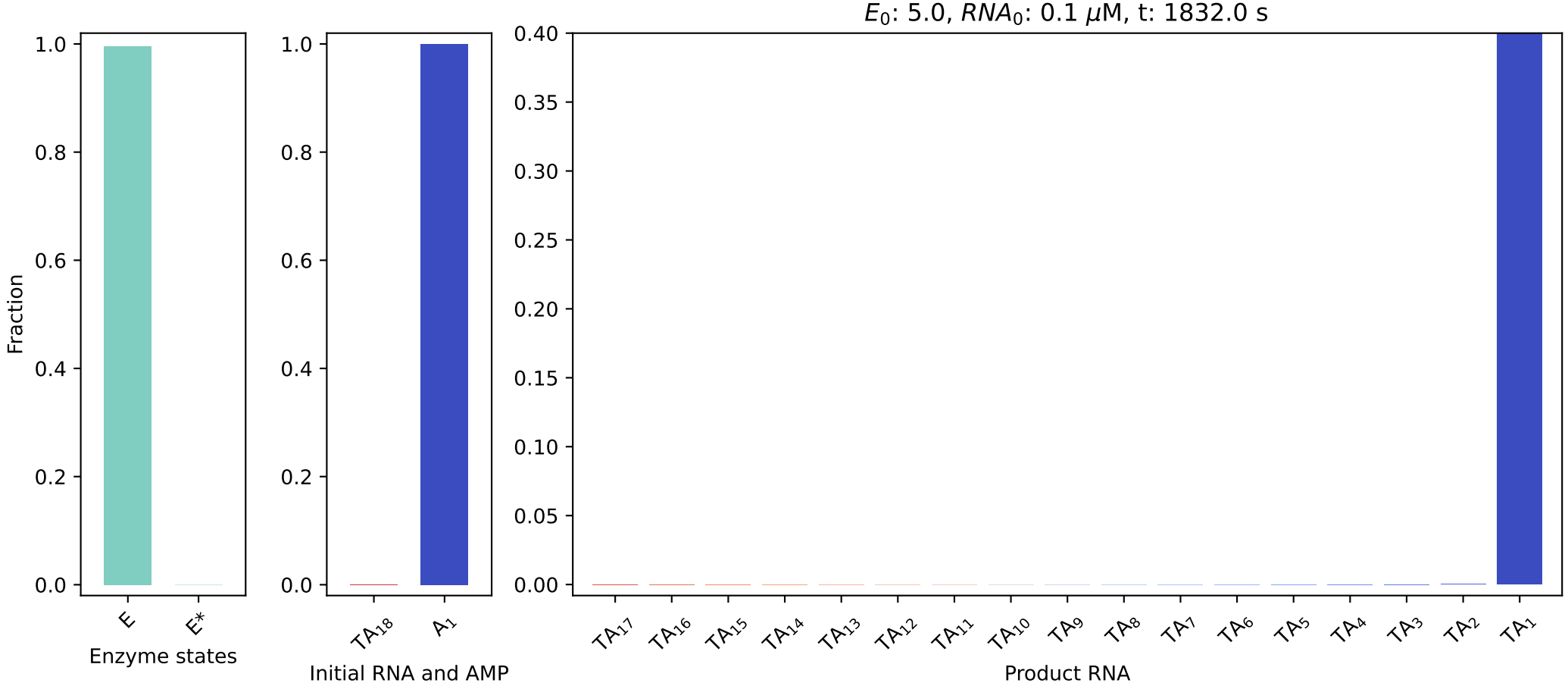
TA_4
TA_3
TA_2
TA_1
Product RNA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E
E*
Enzyme states
1.0
0.8
0.6
0.4
0.2
0.0
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
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0.00
TA_{17}
TA_{16}
TA_{15}
TA_{14}
TA_{13}
TA_{12}
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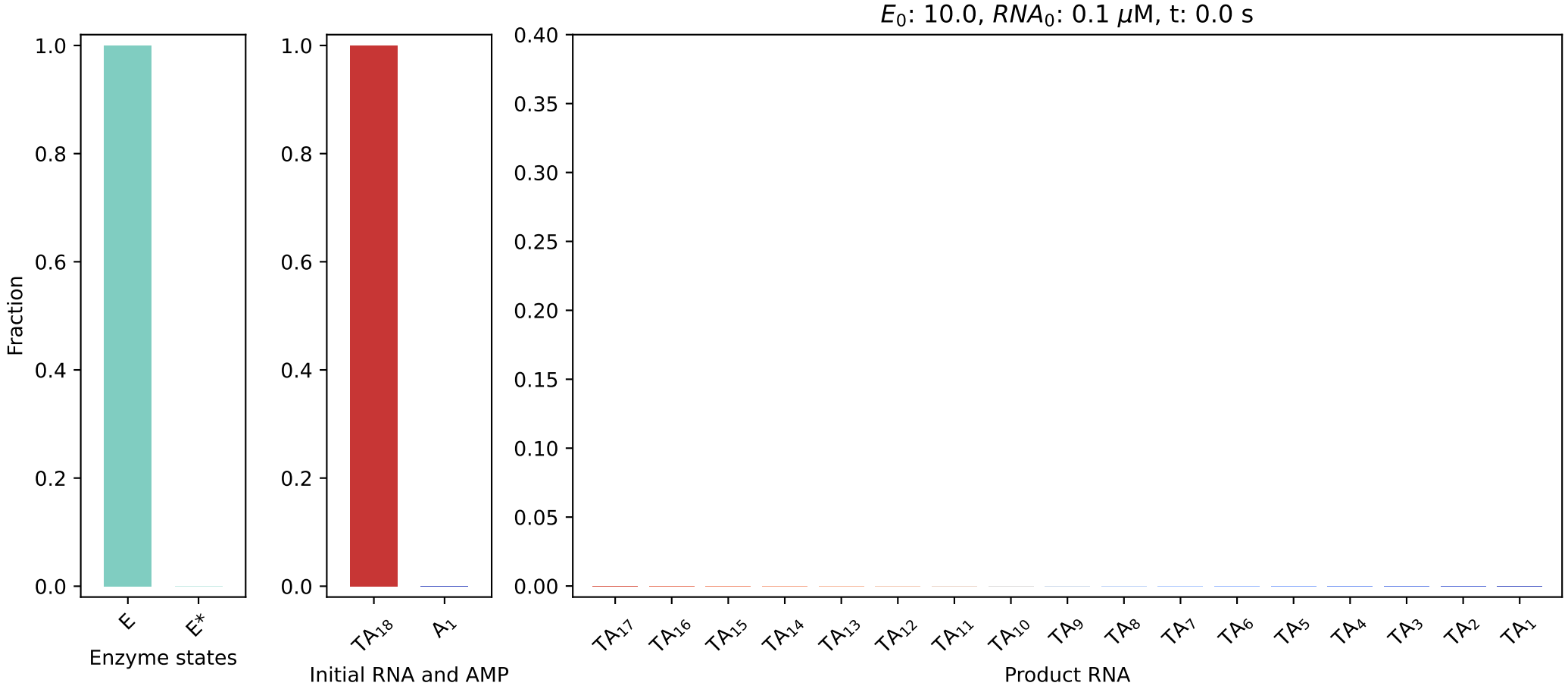
Product RNA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E
E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
TA_{17}
TA_{16}
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TA_{14}
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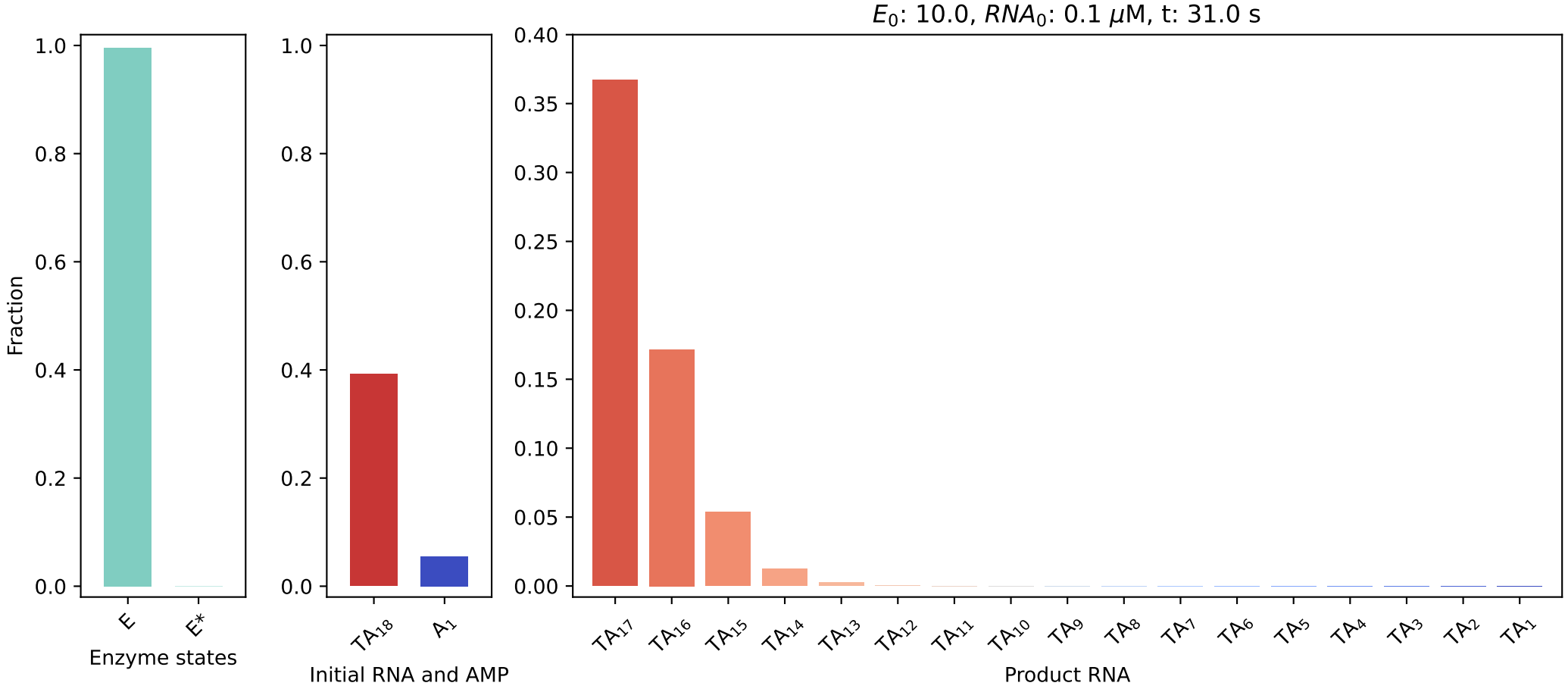
Product RNA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E*
Enzyme states
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A1
Initial RNA and AMP
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0.35
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0.20
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TA17
TA16
TA15
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TA7
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TA3
TA2
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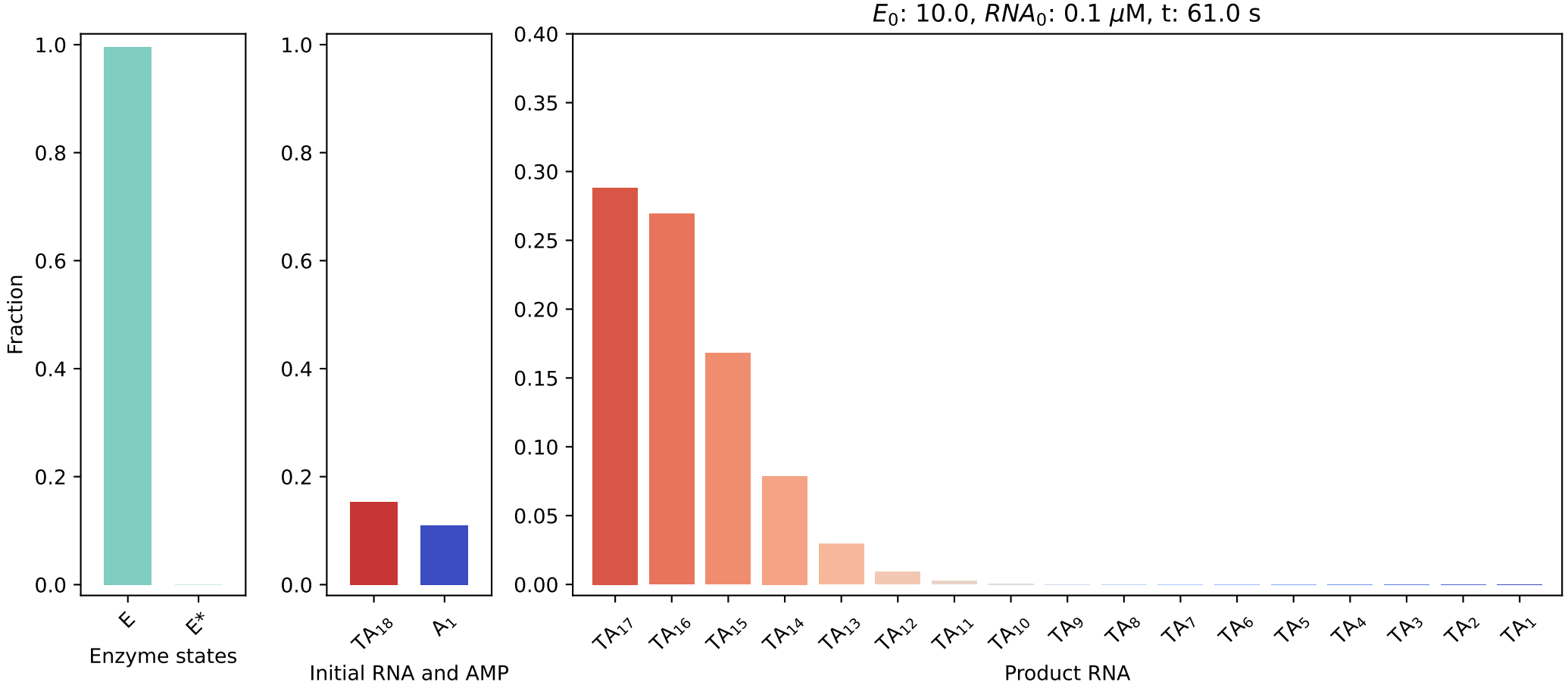
Product RNA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E
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Enzyme states
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Initial RNA and AMP
0.40
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TA17
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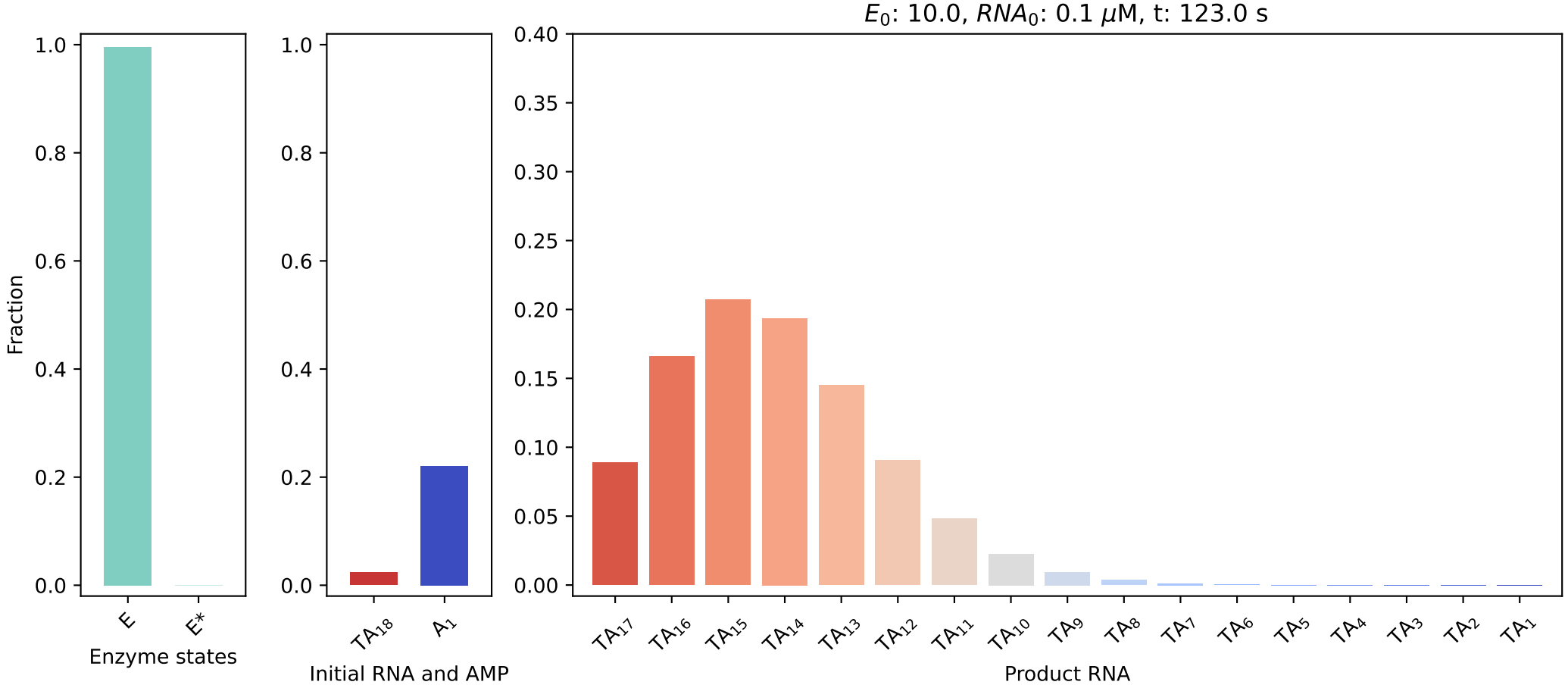
TA2
TA1
Product RNA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E
E*
Enzyme states
TA_{18}
A_1
Initial RNA and AMP
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0.20
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TA_{17}
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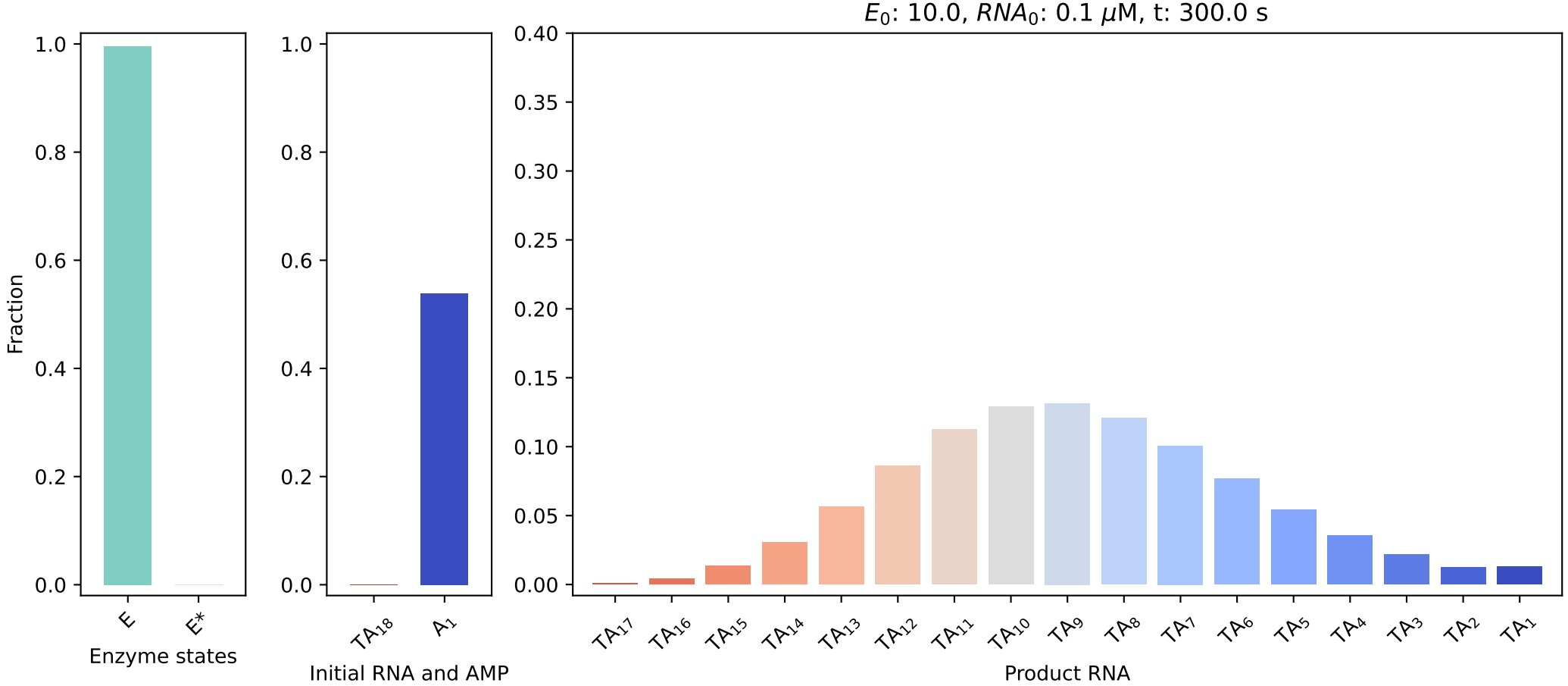
Product RNA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E
E*
Enzyme states
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A_1
Initial RNA and AMP
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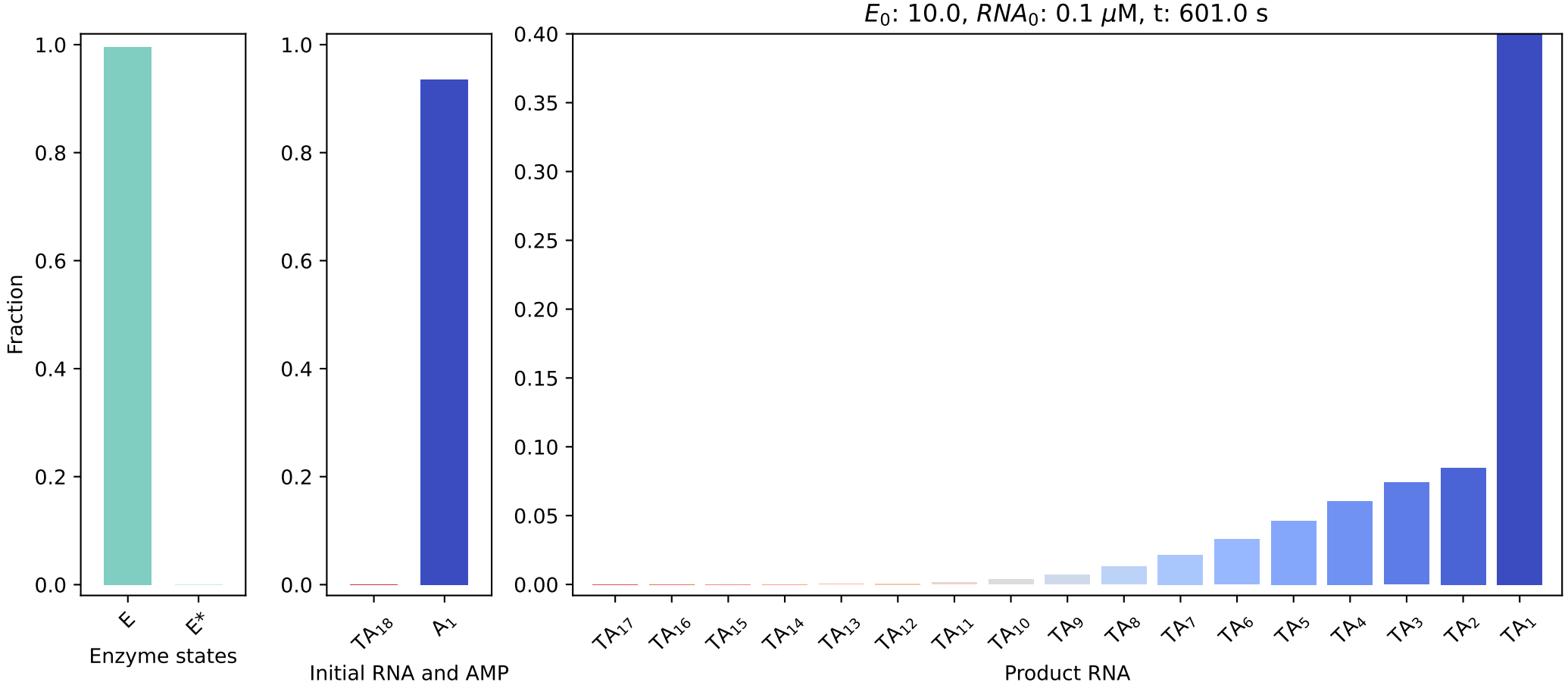
Product RNA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E*
Enzyme states
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Initial RNA and AMP
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0.20
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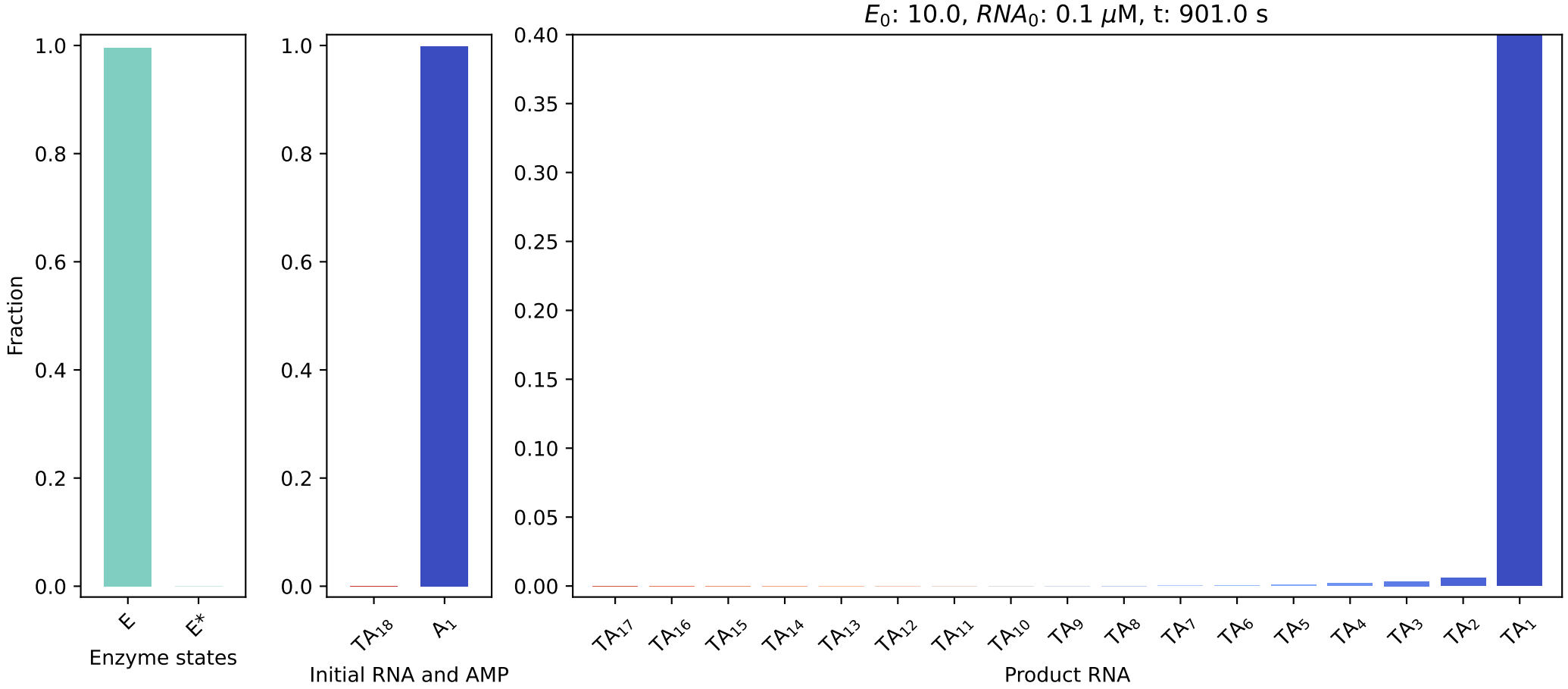
Product RNA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E*
Enzyme states
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Initial RNA and AMP
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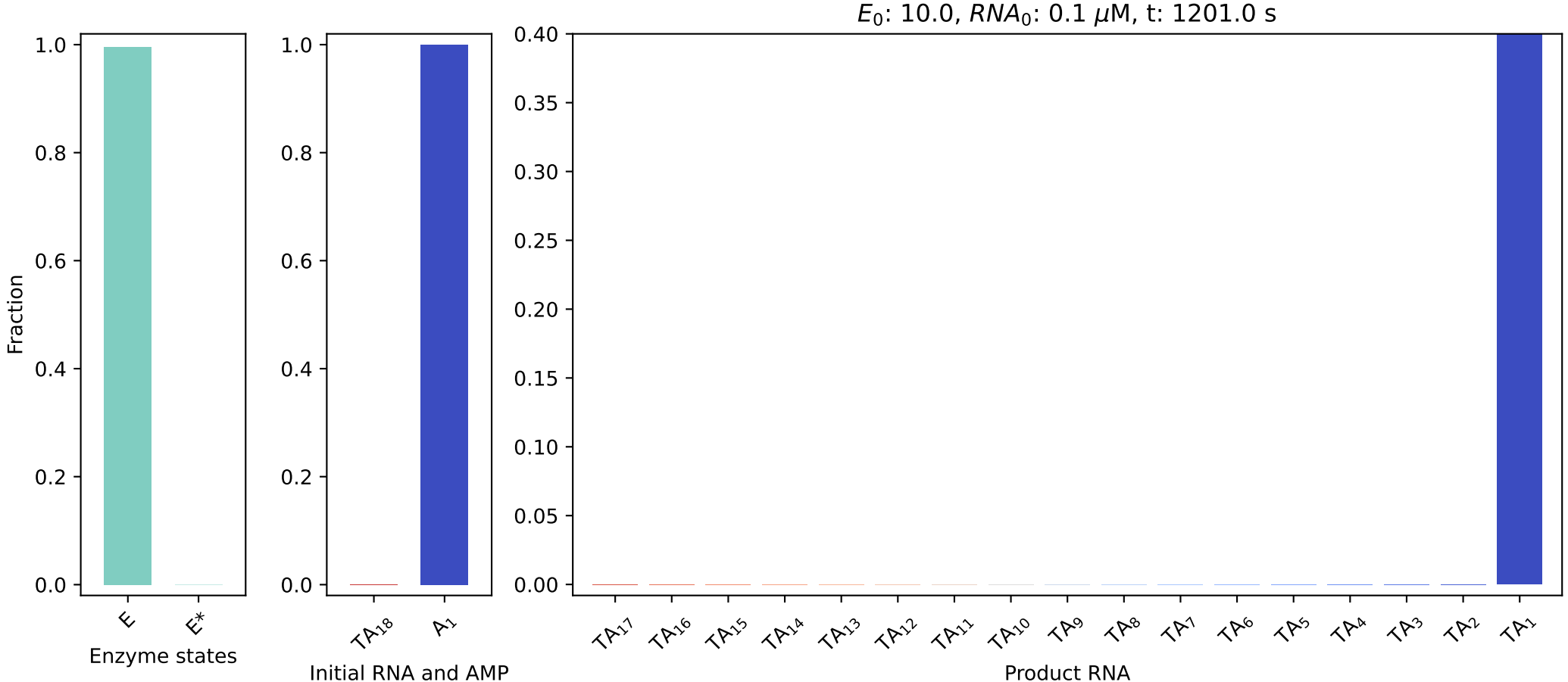
Product RNA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E*
Enzyme states
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0.4
0.2
0.0
TA_{18}
A_1
Initial RNA and AMP
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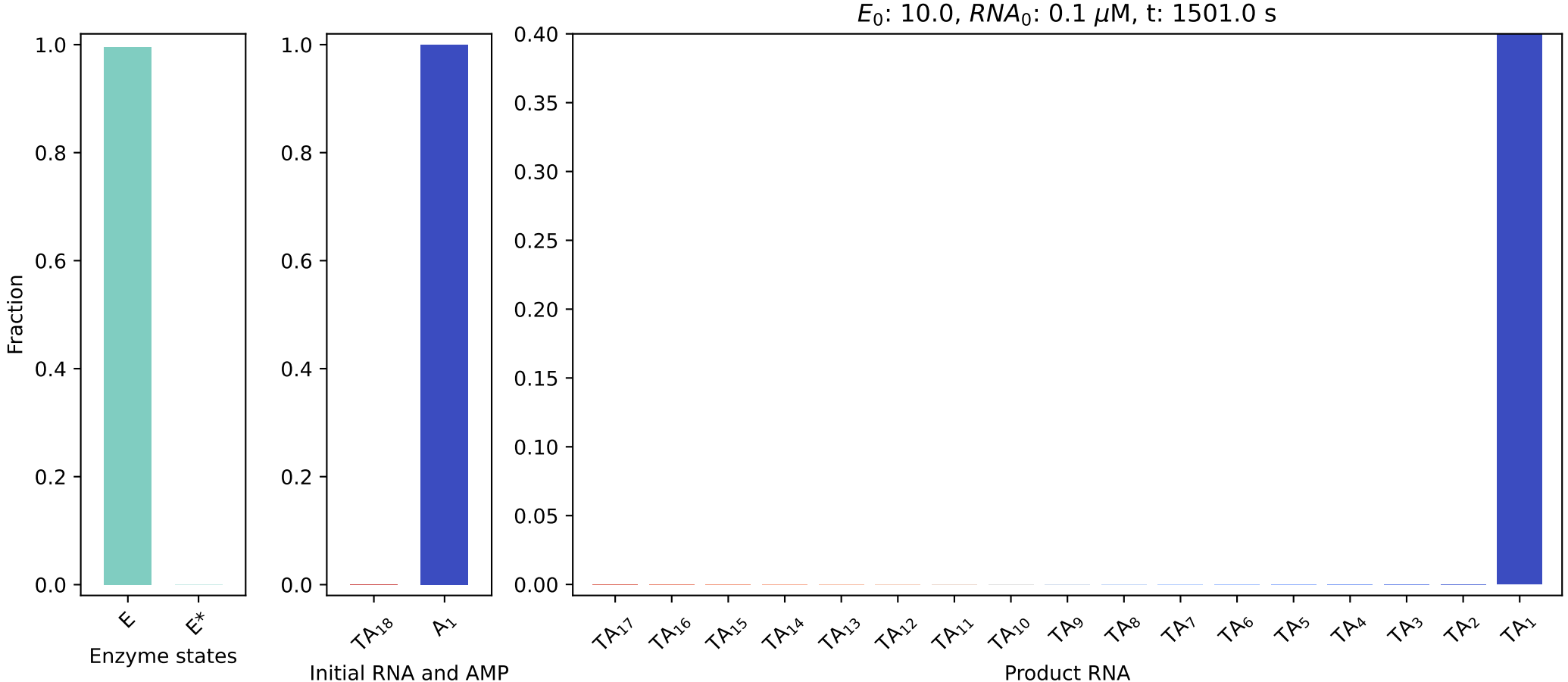
Product RNA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Enzyme states
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TA_{18}
A_1
Initial RNA and AMP
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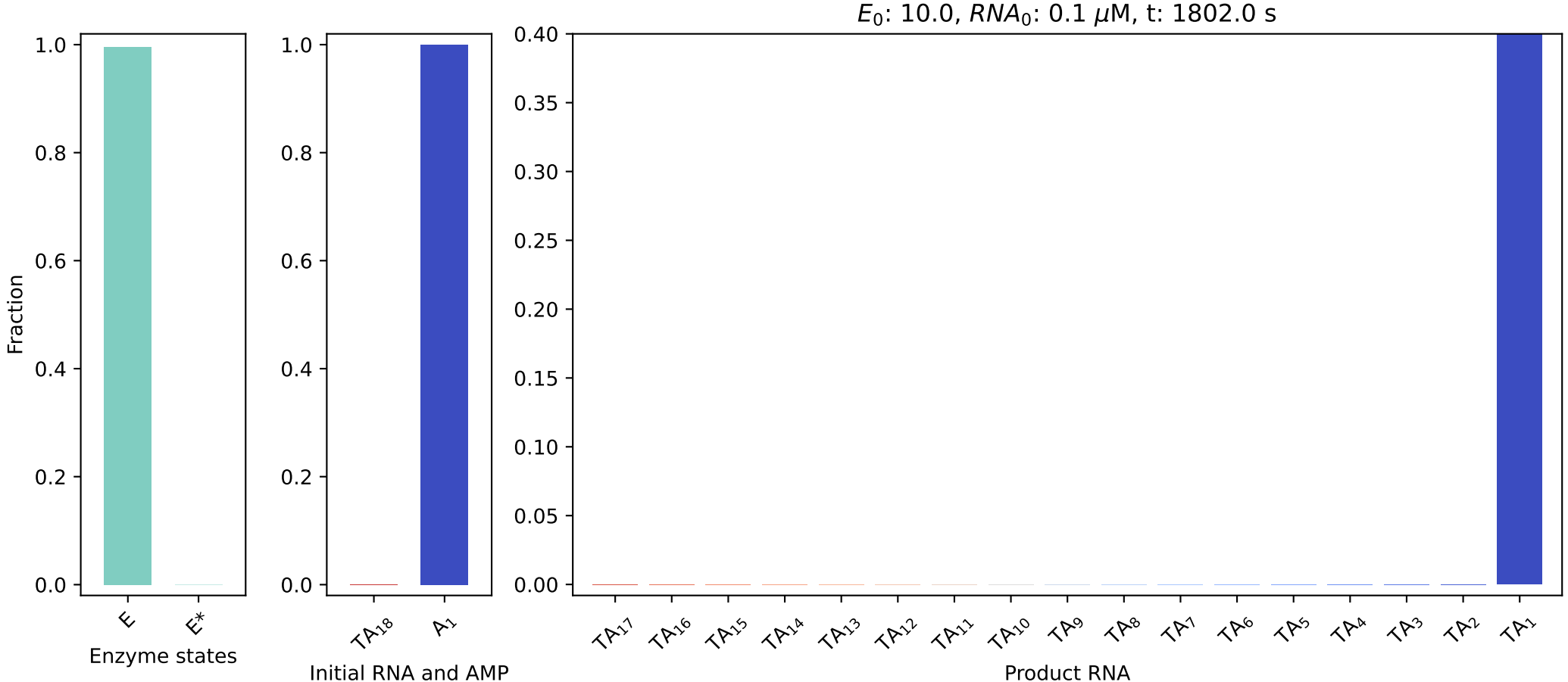
Product RNA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E*
Enzyme states
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A1
Initial RNA and AMP
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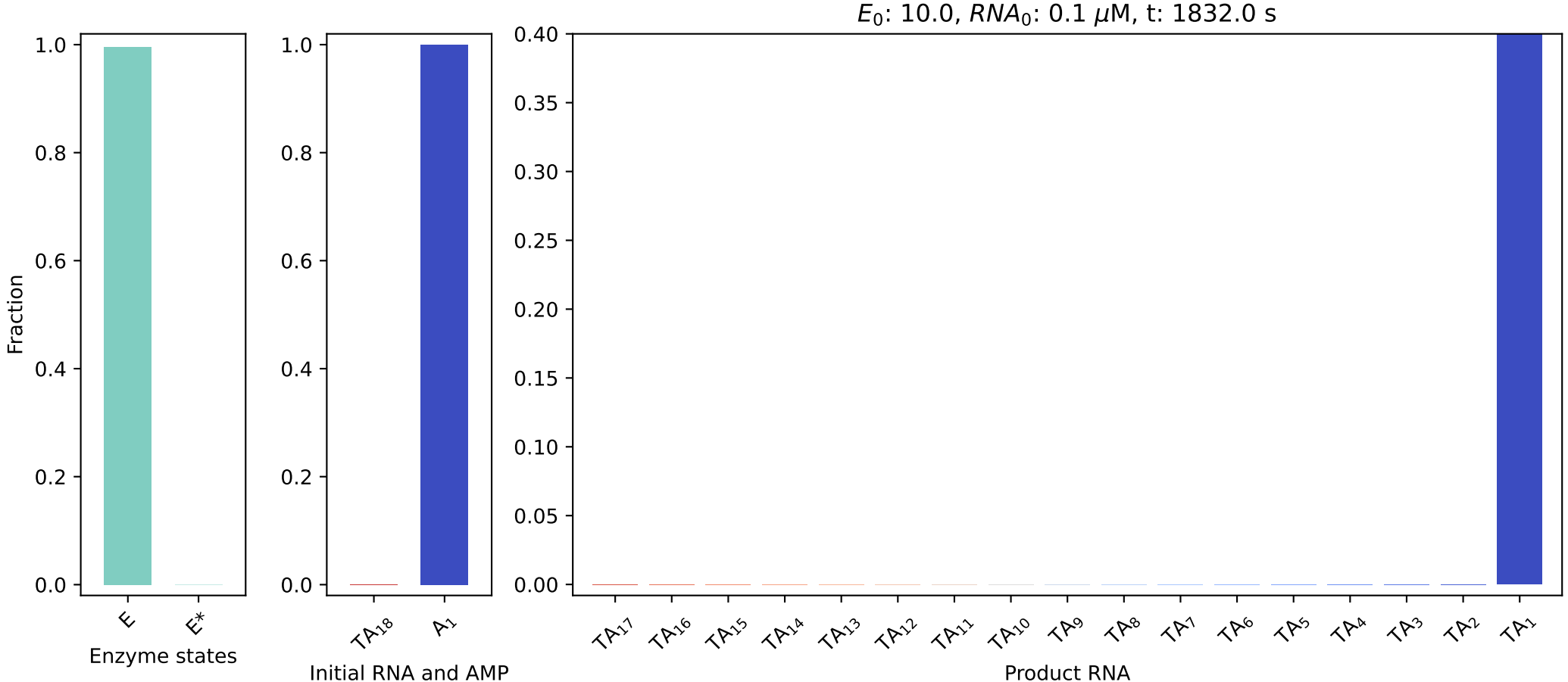
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E*
Enzyme states
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TA_{18}
A_1
Initial RNA and AMP
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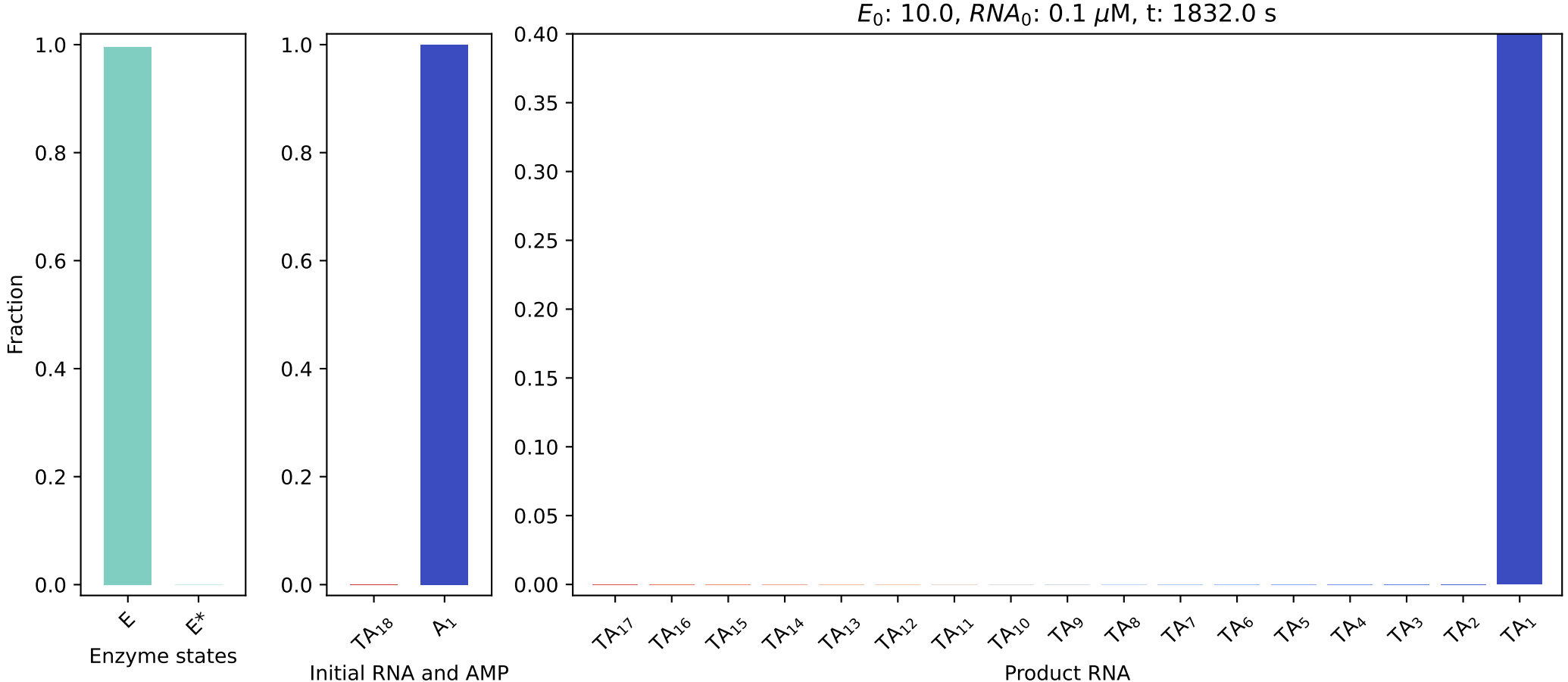
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E*
Enzyme states
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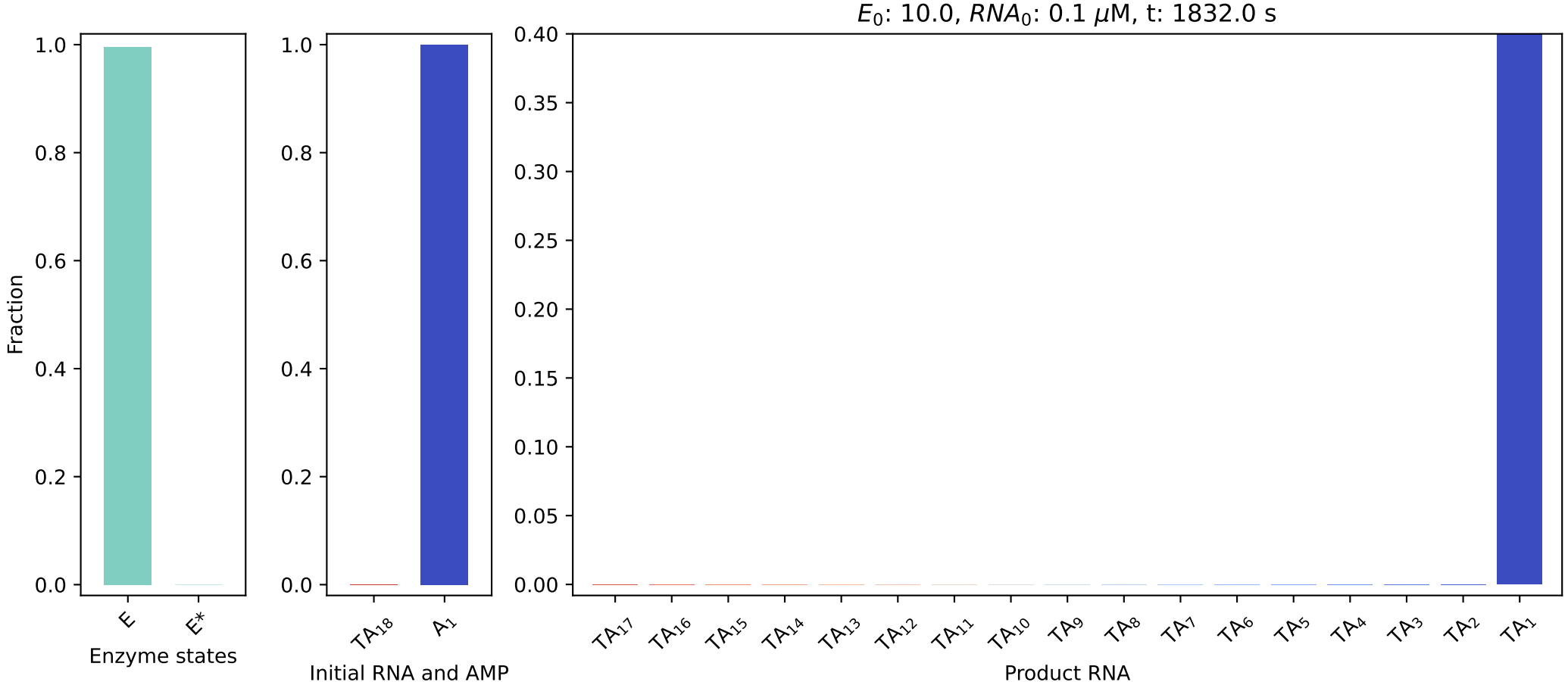
Product RNA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A_1
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Product RNA