Supplementary Table S1. Strains used in this study.

Name	Relevant genotype or description	Source
Escherichia coli EDL933	Wildtype EHEC, O157:H7	D. Friedman
DJ480	MG1655 *ΔlacX74* (wild type strain)	D. Jin, (20)
UTK007	DJ480 PCP18-*araE*	This study
UTK008	UTK007 Δ*hfq::kan*	This study
UTK011	UTK007 Δ*rnc::kan*	This study
Plasmids		
pKD4	Km^R	(24)
pBR-pLac	Amp^R; P_{LacO} promoter	(20)
pEF21	Cm^R; P_{BAD} promoter	(17)
pBR-pLac-*orzO*	AmpR	This study
pEF21-*zorO*	Cm^R	This study
pBR-pLac-*orzO-ohsC*	Amp^R	This study
pBR-pLac-*orzO-istR*	Amp^R	This study
pBR-pLac-*orzP*	Amp^R	This study
pBR-pLac-*orzO* V1	Amp^R	This study
pEF21-*zorO* V1	Cm^R	This study
pBR-pLac-*orzP* V1	Amp^R	This study
pBR-pLac-*orzO* 8(1)9	Amp^R	This study
pBR-pLac-*orzO* 10(1)7	Amp^R	This study
pBR-pLac-*orzO* 9(1)8	Amp^R	This study
pBR-pLac-*orzO*Δ3	Amp^R	This study
pBR-pLac-*orzO*Δ6	Amp^R	This study
pBR-pLac-*orzO* 5(2)11	Amp^R	This study
pBR-pLac-*orzO* 6(1)11	Amp^R	This study
pBR-pLac-*orzO* 6(1)10(1)	Amp^R	This study
pBR-pLac-*orzO* 1(5)1(11)	Amp^R	This study

Supplementary Table S2. Oligonucleotides used in this study

Name	Sequence (5'-3', restriction sites underlined; nucleotides altered via site directed mutagenesis in red)	Use
EF506	CCTGCTGGTGAGGCAGGTTCTTTTATTT	OrzO Northern analysis
EF511	GAGCACGGTTAACTTTTGTGTCAGCGTGT	*zorO* Primer extension analysis
EF517	CTACAGTGACGCTAACTTGCTGATT	OrzO Northern analysis
EF524	GTTGGTACGAAACGTTGCTCTCCG	*zorO* Northern analysis
EF769	CAGAATCGAAAGGTTCAAAGTACAAATAAGCATATAAGGAAAAGAGAGAATGATTGAACAAGATGGATTG	UTK008 PCR (Δ*hfq*)
EF770	CGCAGGATCGCTGGCTCCCCGTGTAAAAAAAACAGCCCGAAACCTTAGAAGAACTCGTCAAGAAG	UTK008 PCR (Δ*hfq*)
EF771	GTCTGTTTCGTGTGCTGAATTGTTGACGCATTTATTTATTGGTATCGCATGATTGAACAAGATGGA	UTK011 PCR (Δ*rnc*)
EF772	GATGGCAATAAATCCGCAGTAACTTTTATCGATGCTCATTCCAGCTCCAGTCAGAAGAACTCGTCAAGAAG	UTK011 PCR (Δ*rnc*)
EF537	GTGGATATGGTTATAATGACGTCGTTGTTACGAA	pBR-pLac-*orzO* PCR
EF538	GATGTGGAATTCTATGGTGGGCTATTGGC	pBR-pLac-*orzO* PCR; pBR-pLac-*orzO-ohsC* PCR; pBR-pLac-*orzO-istR* PCR; pBR-pLac-*orzO*Δ3 PCR, pBR-pLac-*orzO*Δ6 PCR
EF531	GAGATTTATAATCCTGCAGGTTGGGACGTTGC	pEF21-*zorO* PCR
EF532	GAGTTAAAGCTTGAATTAATAAAAACAGTAATC	pEF21-*zorO* PCR
EF78	GACACGGAAATGTTGAATAC	pBR-pLac-orzO-ohsC PCR; pBR-pLac-orzO-istR PCR
EF790	CTTTTTAACTTTAATTTTGCAACATTTCGTACCAACGACGTC	pBR-pLac-*orzO-ohsC* PCR
EF791	GAAATGTTGCAAAATTAAAGTTAAAAAGTAAAACCCCCGTTCC	pBR-pLac-*orzO-ohsC* PCR
EF792	GCCACGGTAA GAATTC AAAGTTAAAAATAATACCG	pBR-pLac-*orzO-ohsC* PCR
EF793	GCGGCTGGTAACCGCAGCAACATTTCGTACCAACGACGTC	pBR-pLac-*orzO-istR* PCR
EF794	CGAAATGTTGCTGCGGTTACCAGCCGCGGGCGGCTGACG	pBR-pLac-*orzO-istR* PCR
EF795	CTGTACTGCAGAATTCAAAAAACCCCGCCGGAGCG	pBR-pLac-*orzO-istR* PCR
EF541	CCAGCCGTGGTTATAATGACGTCGTTGGAACACG	pBR-pLac-*orzP* PCR
EF542	GTTGTTGAATTCAAAAATATCTGGG	pBR-pLac-*orzP* PCR
EF700	CTGACGTCGTTGGTACACGATGTTGCACAATCAGC	pBR-pLac-*orzO* V1 PCR
EF701	GCTGATTGTGCAACATCGTGTACCAACGACGTCAG	pBR-pLac-*orzO* V1 PCR
EF725	GATCCGGAGAGCAACGTCGTGTACCAACATACGTAAAC	pEF21-*zorO* V1 PCR
EF726	GTTTACGTATGTTGGTACACGACGTTGCTCTCCGGATC	pEF21-*zorO* V1 PCR
EF702	CTGACGTCGTTGGAACGAAATGTTGCACAGGCTGTG	pBR-pLac-*orzP* V1 PCR
EF703	CACAGCCTGTGCAACATTTCGTTCCAACGACGTCAG	pBR-pLac-*orzP* V1 PCR
EF998	CTGACGTCGTTGGTACCAAATGTTGCACAATCAG	pBR-pLac-*orzO* 8(1)9 PCR
EF999	CTGATTGTGCAACATTTGGTACCAACGACGTCAG	pBR-pLac-*orzO* 8(1)9 PCR
EF976	GACGTCGTTGGTACGACATGTTGCACAATCAGCAAG	pBR-pLac-*orzO* 10(1)7 PCR
EF977	CTTGCTGATTGTGCAACATGTCGTACCAACGACGTC	pBR-pLac-*orzO* 10(1)7 PCR
EF745	CTGACGTCGTTGGTACGCAATGTTGCACAATCAGC	pBR-pLac-*orzO* 9(1)8 PCR
EF746	GCTGATTGTGCAACATTGCGTACCAACGACGTCAG	pBR-pLac-*orzO* 9(1)8 PCR
EF853	GGTTATAATTTA GACGTC GGTACGAAATGTTGCACAATC	pBR-pLac-*orzO*Δ3 PCR
EF875	GGTTATAATTTATTC GACGTC ACGAAATGTTGCACAATC	pBR-pLac-*orzO*Δ6 PCR
EF940	GATACTGACGTCGTTGGATCGAAATGTTGCACAATCAGC	pBR-pLac-*orzO* 5(2)11 PCR
EF941	GCTGATTGTGCAACATTTCGATCCAACGACGTCAGTATC	pBR-pLac-*orzO* 5(2)11 PCR
EF934	GATACTGACGTCGTTGGTTCGAAATGTTGCACAATCAGC	pBR-pLac-*orzO* 6(1)11 PCR
EF935	GCTGATTGTGCAACATTTCGAACCAACGACGTCAGTATC	pBR-pLac-*orzO* 6(1)11 PCR
EF972	CGTCGTTGGTTCGAAATGTTGACAATCAGCAAGTTAGCG	pBR-pLac-*orzO* 6(1)10(1) PCR
EF973	CGCTAACTTGCTGATTGTCAACATTTCGAACCAACGACG	pBR-pLac-*orzO* 6(1)10(1) PCR
EF944	GATACTGACGTCCTTGGTTCGAAATGTTGCACAATCAGC	pBR-pLac-*orzO* 1(5)1(11) PCR
EF945	GCTGATTGTGCAACATTTCGAACCAAGGACGTCAGTATC	pBR-pLac-*orzO* 1(5)1(11) PCR

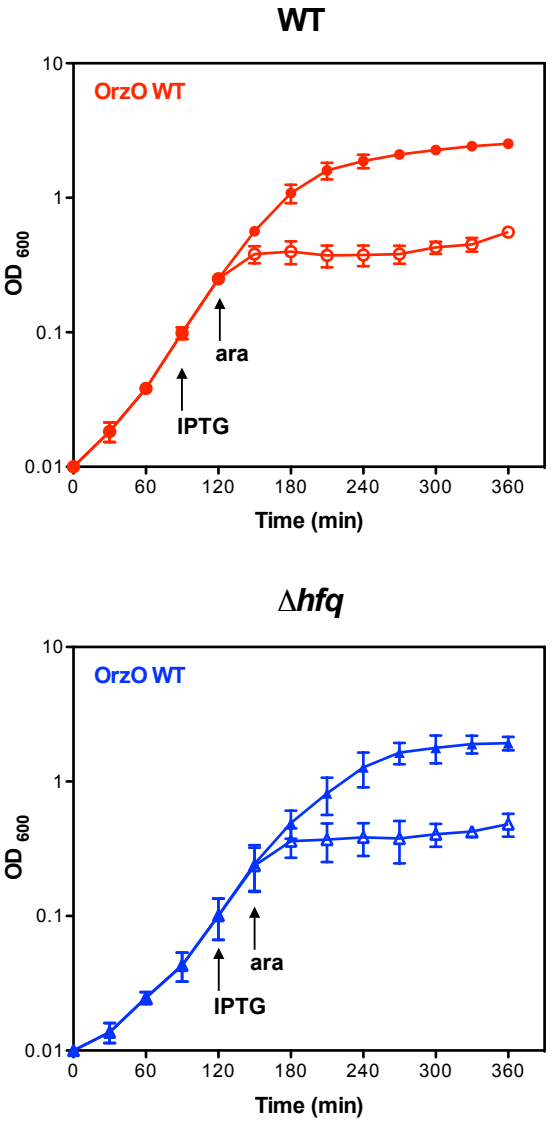

WT
OrzO WT
10
1
0.1
0.01
OD 600
ara
IPTG
0
60
120
180
240
300
360
Time (min)
Δhfq
OrzO WT
10
1
0.1
0.01
OD 600
ara
IPTG
0
60
120
180
240
300
360
Time (min)

Figure S1

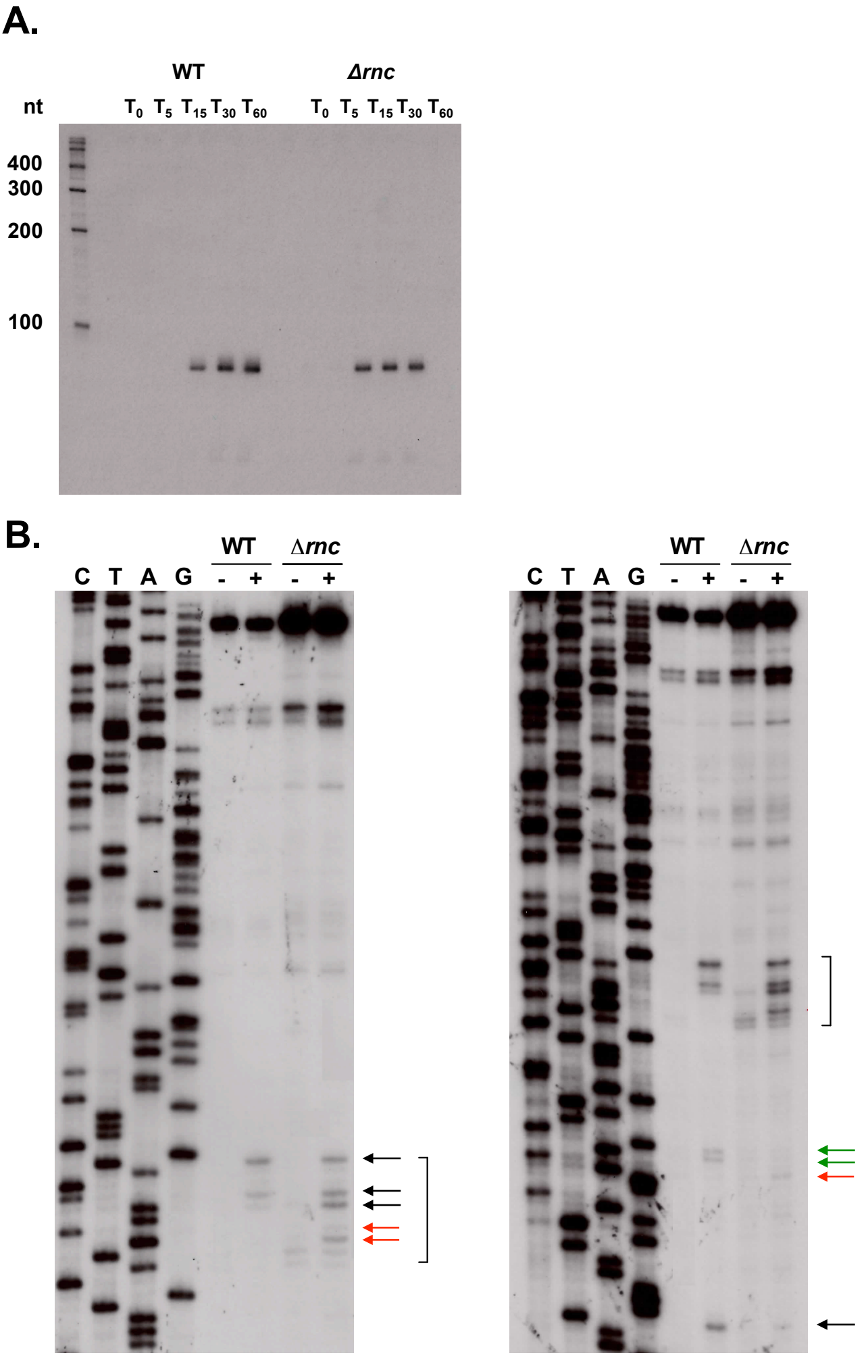

A.
WT
Δrnc
nt
T0 T5 T15 T30 T60
T0 T5 T15 T30 T60
400
300
200
100
B.
WT
Δrnc
C T A G
- + - +
WT
Δrnc
C T A G
- + - +

Figure S2

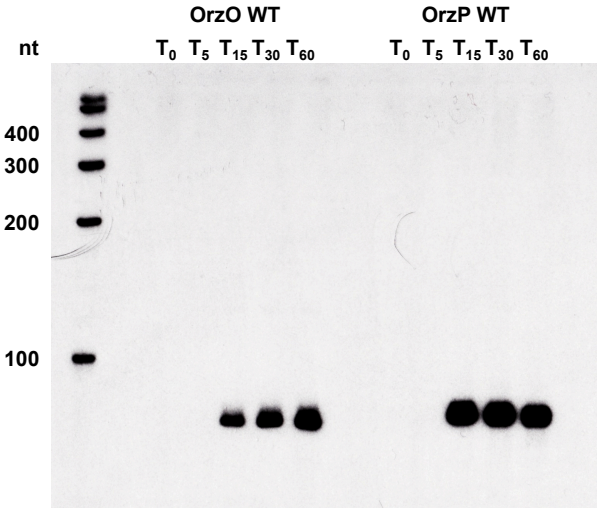
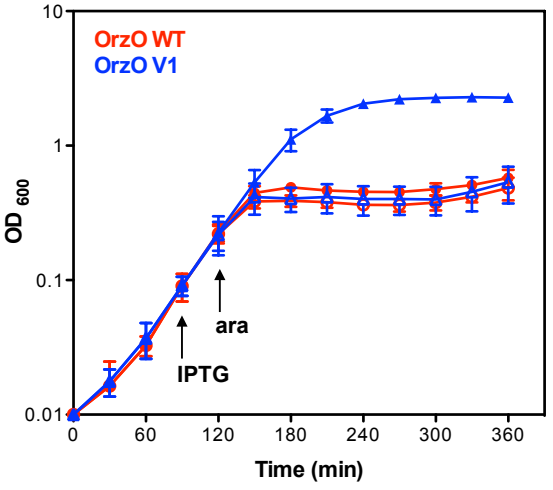

OrzO WT
OrzP WT
nt
T0 T5 T15 T30 T60
T0 T5 T15 T30 T60
400
300
200
100

Figure S3




```
OrzO V1 5′ GUUGGUACACGAUGUUGC 3′
           ||||||||||||:|||||
zorO V1 3′ CAACCAUGUGCUGCAACG 5′
```

Figure S4

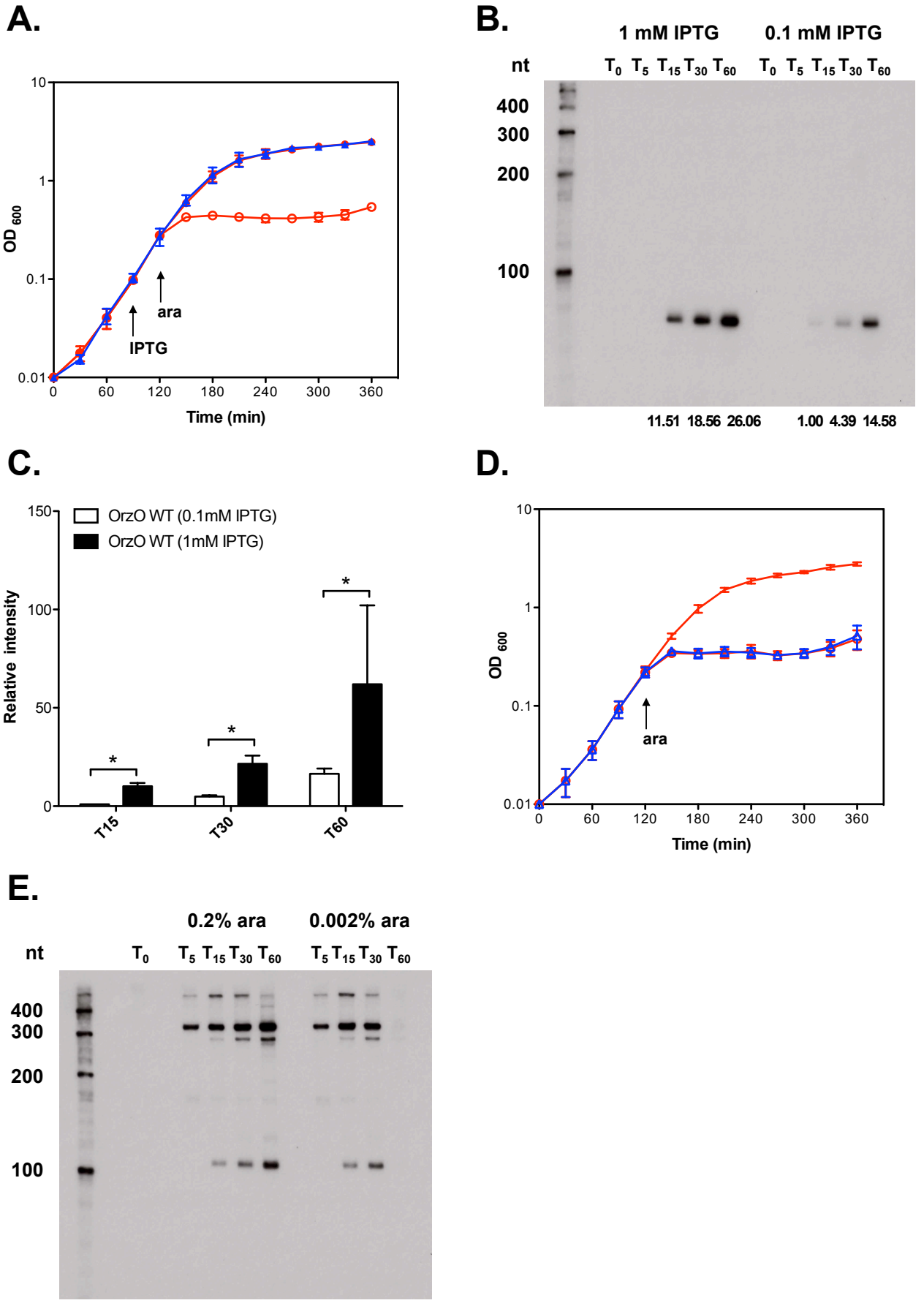
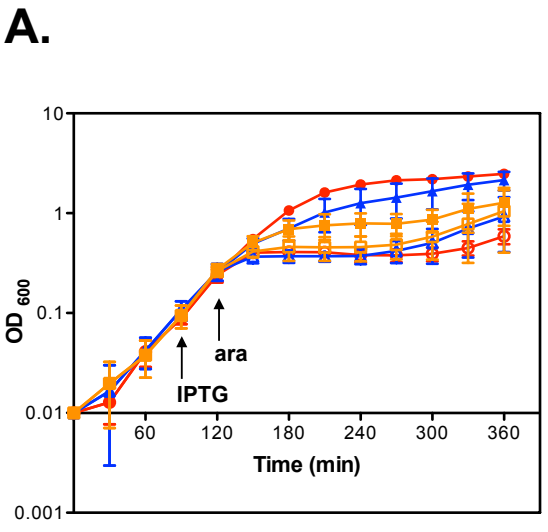
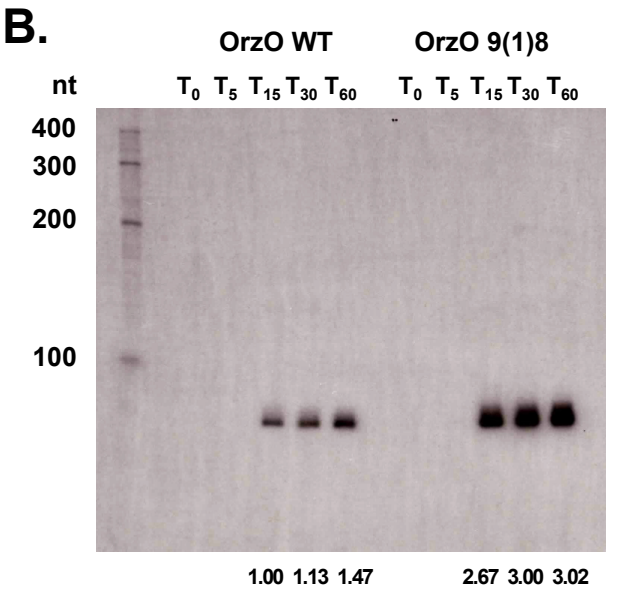

A.
OD 600
Time (min)
IPTG
ara
B.
1 mM IPTG
0.1 mM IPTG
nt
T0 T5 T15 T30 T60
400
300
200
100
11.51 18.56 26.06
1.00 4.39 14.58
C.
OrzO WT (0.1mM IPTG)
OrzO WT (1mM IPTG)
Relative intensity
T15
T30
T60
D.
OD 600
Time (min)
ara
E.
0.2% ara
0.002% ara
nt
T0 T5 T15 T30 T60
T5 T15 T30 T60
400
300
200
100

Figure S5


A.
10
1
0.1
0.01
0.001
OD 600
60
120
180
240
300
360
Time (min)
IPTG
ara


B.
OrzO WT
OrzO 9(1)8
nt
T0 T5 T15 T30 T60
T0 T5 T15 T30 T60
400
300
200
100
1.00 1.13 1.47
2.67 3.00 3.02

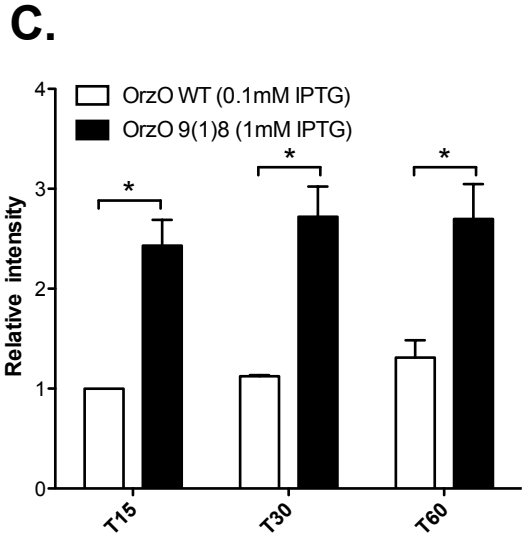

C.
OrzO WT (0.1mM IPTG)
OrzO 9(1)8 (1mM IPTG)
Relative intensity
4
3
2
1
0
*
*
*
T15
T30
T60

Figure S6

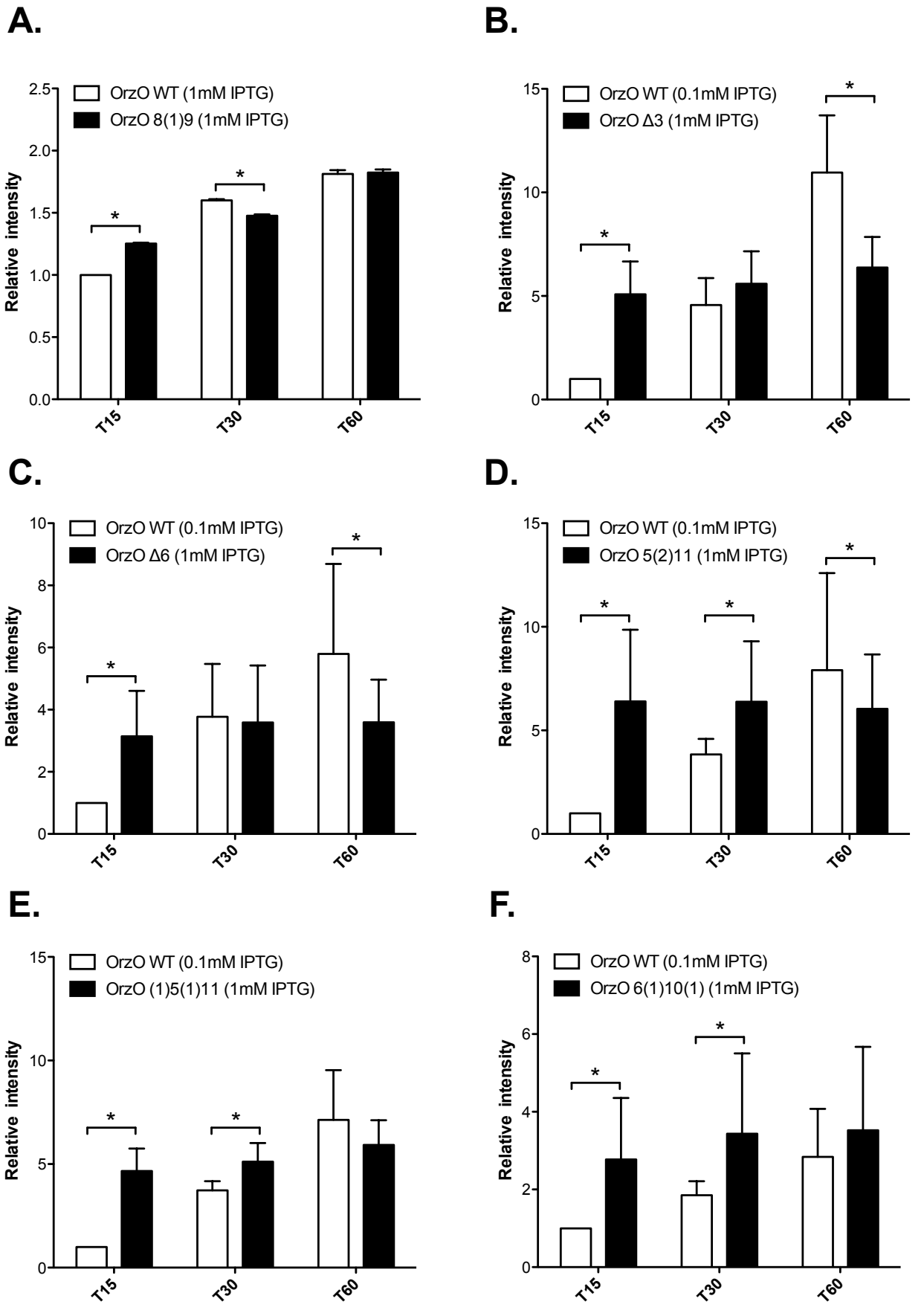

A.
OrzO WT (1mM IPTG)
OrzO 8(1)9 (1mM IPTG)
Relative intensity
2.5
2.0
1.5
1.0
0.5
0.0
T15
T30
T60
B.
OrzO WT (0.1mM IPTG)
OrzO Δ3 (1mM IPTG)
Relative intensity
15
10
5
0
T15
T30
T60
C.
OrzO WT (0.1mM IPTG)
OrzO Δ6 (1mM IPTG)
Relative intensity
10
8
6
4
2
0
T15
T30
T60
D.
OrzO WT (0.1mM IPTG)
OrzO 5(2)11 (1mM IPTG)
Relative intensity
15
10
5
0
T15
T30
T60
E.
OrzO WT (0.1mM IPTG)
OrzO (1)5(1)11 (1mM IPTG)
Relative intensity
15
10
5
0
T15
T30
T60
F.
OrzO WT (0.1mM IPTG)
OrzO 6(1)10(1) (1mM IPTG)
Relative intensity
8
6
4
2
0
T15
T30
T60

Figure S7