SUPPLEMENTAL INFORMATION

Domain interactions control complex formation and polymerase specificity in the biosynthesis of the *Escherichia coli* O9a antigen

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Table S1. Sequences of oligonucleotide primers used to generate site-directed mutants and recombinant plasmids.

Plasmid	Primer	Sequence[a,b,c] (5′→3′)	Features
pWQ766	LG33	gatcgaattcaccatgcatcatcatcatcatcatcatcatCATATTTTGATTGATGTCCAGGG	Forward primer for the amplification of His_{10}-*wbdA*$^{1-1305}$; *Eco*RI restriction site
	LG34	gatcaagctttaTTCGCTCAGCGCATCGATTTTCTGC	Reverse primer for the amplification of *wbdA*$^{1-1305}$; *Hind*III restriction site
pWQ769	WbdAE317AFwd	GTGTTCCCGTCGCTGCATG**C**AGGTTTCGGCC	Forward primer used to generate E317A mutation in His_{10}-WbdA
	WbdAE317AFwd	GCGGCAGGCCGAAACCT**G**CATGCAGCGACG	Reverse primer used to generate E317A mutation in His_{10}-WbdA
pWQ770	SL001	CAACTTTCATCTGGGA**TAACTCGAG**GATGCCAGCGTACCG	Forward primer used to introduce non-sense mutation and *Xho*1 restriction site in *wbdA* after codon 635.
	SL002	CGGTACGCTGGCATC**CTCGAGTTA**TCCCAGATGAAAGTTG	Reverse primer used to introduce non-sense mutation and *Xho*1 restriction site in *wbdA* after codon 635.
pWQ771	SL005	GTGGTGCATGATATT**TAACTCGAG**CGCCGTCCGGAGTGG	Forward primer used to introduce non-sense mutation and *Xho*1 restriction site in *wbdA* after codon 568.
	SL006	CCACTCCGGACGGCG**CTCGAGTTA**AATATCATGCACCAC	Reverse primer used to introduce non-sense mutation and *Xho*1 restriction site in *wbdA* after codon 568.
pWQ772	SL071	CATCTCTTCCCGGAGCTG**TAACTCGAG**ATTGACAGCATGCGCGCC	Forward primer used to introduce non-sense mutation and *Xho*1 restriction site in *wbdA* after codon 547.
	SL072	GGCGCGCATGCTGTCAAT**CTCGAGTTA**CAGCTCCGGGAAGAGATG	Reverse primer used to introduce non-sense mutation and *Xho*1 restriction site in *wbdA* after codon 547.
pWQ773	SL069	GGTGCTGACGAACCGGTG**TAACTCGAG**AGACGATGTGCTTATTGCC	Forward primer used to introduce non-sense mutation and *Xho*1 restriction site in *wbdA* after codon 526.
	SL070	GGCAATAAGCACATCGTCT**CTCGAGTTA**CACCGGTTCGTCAGCACC	Reverse primer used to introduce non-sense mutation and *Xho*1 site in *wbdA* after codon 526.
pWQ774	SL003	CTACTACACCCTGGC**TAACTCGAG**CGCTACGCCAACC	Forward primer used to introduce non-sense mutation and *Xho*1 restriction site in *wbdA* after codon 502.

	SL004	GGTTGGCGTAGCG**CTCGAGTTA**GCCAGGGGTGTAGTAG	Reverse primer used to introduce non-sense mutation and *Xho*1 restriction site in *wbdA* after codon 502.
pWQ775	SL012	gatctctagagATGCATATTTTGATTGATGTCCAGGG	Forward primer used for the amplification of *wbdA*$^{1\text{-}1905}$ and cloning into pUT18C; *Xba*I restriction site
	SL022	gatcgaattcttaTCCCAGATGAAAGTTGCTG	Reverse primer for the amplification of *wbdA*$^{1\text{-}1905}$ and cloning into pUT18C; *Eco*RI restriction site
pWQ776	SL012	gatctctagagATGCATATTTTGATTGATGTCCAGGG	Forward primer for the amplification of *wbdA*$^{1\text{-}1704}$ and cloning into pUT18C; *Xba*I restriction site
	SL015	gatctctagaccAATATCATGCACCACGAAG	Reverse primer for the amplification of *wbdA*$^{1\text{-}1704}$ and cloning into pUT18C; *Eco*RI restriction site
pWQ777	SL012	gatctctagagATGCATATTTTGATTGATGTCCAGGG	Forward primer for the amplification of *wbdA*$^{1\text{-}1641}$ and cloning into pUT18C; *Xba*I restriction site
	SL075	gatcgaattcttaCAGCTCCGGGAAGAGATG	Reverse primer used for the amplification of *wbdA*$^{1\text{-}1641}$ and cloning into pUT18C; *Eco*RI restriction site
pWQ778	SL012	gatctctagagATGCATATTTTGATTGATGTCCAGGG	Forward primer for the amplification of *wbdA*$^{1\text{-}1578}$ and cloning into pUT18C; *Xba*I restriction site
	SL073	gatcgaattcttaCACCGGTTCGTCAGCACC	Reverse primer for the amplification of *wbdA*$^{1\text{-}1578}$ and cloning into pUT18C; *Eco*RI restriction site
pWQ779	SL012	gatctctagagATGCATATTTTGATTGATGTCCAGGG	Forward primer for the amplification of *wbdA*$^{1\text{-}1506}$ and cloning into pUT18C; *Xba*I restriction site
	SL016	gatctctagaccGCCAGGGGTGTAGTAGACGG	Reverse primer for the amplification of *wbdA*$^{1\text{-}1506}$ and cloning into pUT18C; *Eco*RI restriction site
pWQ780	LG79	gatcgatctagagATGCATATTTTGATTGATGTCCAGGG	Forward primer for the amplification of *wbdA*$^{1\text{-}1305}$ and cloning into pUT18C; *Xba*I restriction site

	LG80	gatcgaattcttaTTCGCTCAGCGCATCGATTTTCTGC	Reverse primer for the amplification of *wbdA*$^{1\text{-}1305}$ and cloning into pUT18C *Eco*RI restriction site
pWQ781	LG81	gatcgatctagagATGCAGAAAATCGATGCGCTGAGCG	Forward primer for the amplification of *wbdA*$^{1279\text{-}2520}$ and cloning into pUT18; *Xba*I restriction site
	SL014	gatcgaattcgaTTGCTTCGCGGCTGGCGCG	Reverse primer for the amplification of *wbdA*$^{1279\text{-}2520}$ and cloning into pUT18; *Eco*RI restriction site

[a]Restriction sites are underlined.
[b]Non-chromosomal sequences are lowercase.
[c]Point mutations are bolded.