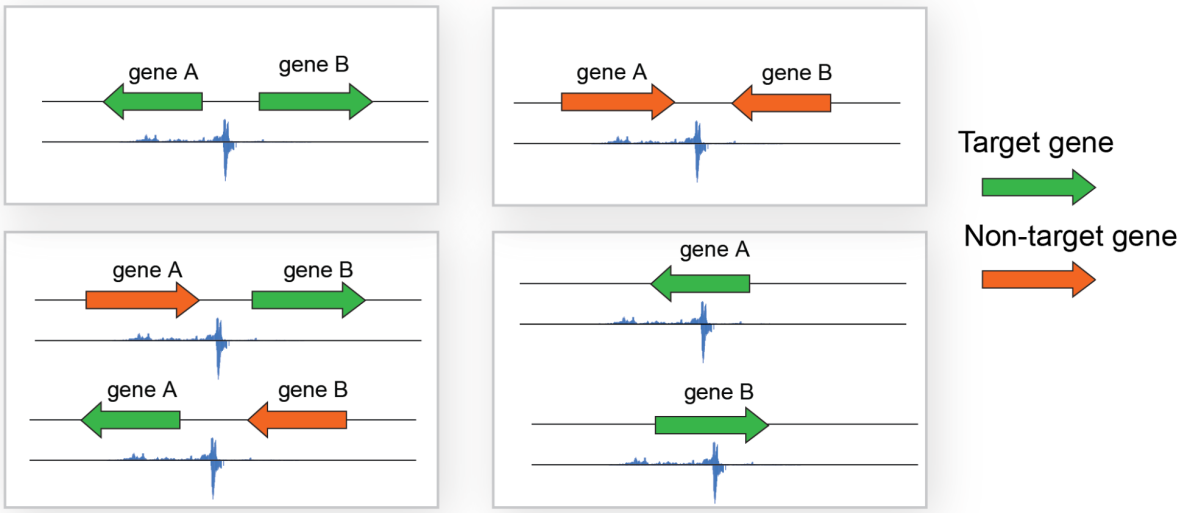
Supplementary materials for proChIPdb manuscript

TABLE AND FIGURE

Figure



Supplementary Figure 1: The identification of target genes in peaking calling steps. Blue plots represent hypothetical ChIP read data, and arrows indicate genes in the neighborhood of peaks. 'Target genes' are defined as genes downstream of, or containing, a peak, since those relative binding locations are more likely to affect the expression of the target gene. Target genes that would be listed in proChIPdb are shown in green, and omitted genes are shown in orange.

Table

Supplementary Table 1: Data sources. The full list of accession numbers and Digital Object Identifier (DOI) links (where available) for each dataset in the proChIPdb database. Links to the related TF dashboard in version 1.0.0 of the website are also included.

Organism	Strain	TF	accession	doi	v1.0.0 TF dashboard link
Corynebacterium glutamicum	ATCC 13032	MksB	PRJNA529385	https://doi.org/10.1038/s41467-020-15238-4	https://prochipdb.org/tf_dashboard.html?organism=c_glutamicum&tf=MksB&genome=BX927147.1&i=0
Corynebacterium glutamicum	ATCC 13032	ParB	PRJNA529385	https://doi.org/10.1038/s41467-020-15238-4	https://prochipdb.org/tf_dashboard.html?organism=c_glutamicum&tf=ParB&genome=BX927147.1&i=1
Corynebacterium glutamicum	ATCC 13032	Smc	PRJNA529385	https://doi.org/10.1038/s41467-020-15238-4	https://prochipdb.org/tf_dashboard.html?organism=c_glutamicum&tf=Smc&genome=BX927147.1&i=2

Escherichia coli	K-12 MG1655	ArcA-1	GSE182077		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=ArcA-1&genome=NC_000913.3&i=62
Escherichia coli	K-12 MG1655	ArcA-2	GSE182077		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=ArcA-2&genome=NC_000913.3&i=63
Escherichia coli	K-12 MG1655	ArgR	GSE60546	https://doi.org/10.1093/nar/gkv150	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=ArgR&genome=NC_000913.3&i=52
Escherichia coli	K-12 MG1655	BaeR	GSE143856	https://doi.org/10.1128/mSystems.00980-20	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=BaeR&genome=NC_000913.3&i=0
Escherichia coli	K-12 MG1655	CpxR	GSE143856	https://doi.org/10.1128/mSystems.00980-20	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=CpxR&genome=NC_000913.3&i=1
Escherichia coli	K-12 MG1655	Cra	GSE65643	https://doi.org/10.1093/nar/gky069	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=Cra&genome=NC_000913.3&i=2
Escherichia coli	K-12 MG1655	Dps	GSE181767		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=Dps&genome=NC_000913.3&i=29
Escherichia coli	K-12 MG1655	Fis	GSE181767		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=Fis&genome=NC_000913.3&i=30
Escherichia coli	K-12 MG1655	FlhC	E-MTAB-2457	https://doi.org/10.1371/journal.pgen.1004649	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=FlhC&genome=NC_000913.3&i=47
Escherichia coli	K-12 MG1655	FlhD	E-MTAB-2457	https://doi.org/10.1371/journal.pgen.1004649	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=FlhD&genome=NC_000913.3&i=48
Escherichia coli	K-12 MG1655	FliA	E-MTAB-2457	https://doi.org/10.1371/journal.pgen.1004649	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=FliA&genome=NC_000913.3&i=49
Escherichia coli	K-12 MG1655	Fnr	GSE41195	https://doi.org/10.1371/journal.pgen.1003565	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=Fnr&genome=NC_000913.3&i=50
Escherichia coli	K-12 MG1655	Fur	GSE54901	https://doi.org/10.1038/ncomms5910	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=Fur&genome=NC_000913.3&i=3
Escherichia coli	K-12 MG1655	GadE	GSE66482	https://doi.org/10.1038/ncomms8970	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=GadE&genome=NC_000913.3&i=4
Escherichia coli	K-12 MG1655	GadW	GSE66482	https://doi.org/10.1038/ncomms8970	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=GadW&genome=NC_000913.3&i=5
Escherichia coli	K-12 MG1655	GadX	GSE66482	https://doi.org/10.1038/ncomms8970	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=GadX&genome=NC_000913.3&i=6
Escherichia coli	K-12 MG1655	GyrA	GSE181767		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=GyrA&genome=NC_000913.3&i=31

Escherichia coli	K-12 MG1655	GyrB	GSE181767		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=GyrB&genome=NC_000913.3&i=32
Escherichia coli	K-12 MG1655	H-NS	GSE181767		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=H-NS&genome=NC_000913.3&i=33
Escherichia coli	K-12 MG1655	HupA	GSE181767		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=HupA&genome=NC_000913.3&i=34
Escherichia coli	K-12 MG1655	HupB	GSE181767		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=HupB&genome=NC_000913.3&i=35
Escherichia coli	K-12 MG1655	InfA	GSE181767		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=InfA&genome=NC_000913.3&i=36
Escherichia coli	K-12 MG1655	KdpE	GSE143856	https://doi.org/10.1128/mSystems.00980-20	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=KdpE&genome=NC_000913.3&i=7
Escherichia coli	K-12 MG1655	MukB	GSE181767		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=MukB&genome=NC_000913.3&i=37
Escherichia coli	K-12 MG1655	NarL	GSE181772		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=NarL&genome=NC_000913.3&i=43
Escherichia coli	K-12 MG1655	OmpR	GSE88979	https://doi.org/10.1038/s41598-017-02110-7	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=OmpR&genome=NC_000913.3&i=53
Escherichia coli	K-12 MG1655	PhoB	GSE143856	https://doi.org/10.1128/mSystems.00980-20	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=PhoB&genome=NC_000913.3&i=8
Escherichia coli	K-12 MG1655	PuuR	GSE181772		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=PuuR&genome=NC_000913.3&i=44
Escherichia coli	K-12 MG1655	RcsA	GSE181772		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=RcsA&genome=NC_000913.3&i=45
Escherichia coli	K-12 MG1655	RdgC	GSE181767		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=RdgC&genome=NC_000913.3&i=38
Escherichia coli	K-12 MG1655	Rob	GSE181767		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=Rob&genome=NC_000913.3&i=39
Escherichia coli	K-12 MG1655	RpoB	GSE54901	https://doi.org/10.1038/ncomms5910	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=RpoB&genome=NC_000913.3&i=9
Escherichia coli	K-12 MG1655	RpoB (Cra and Crp KO exps)	GSE65643	https://doi.org/10.1093/nar/gky069	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=RpoB (Cra and Crp KO exps)&genome=NC_000913.3&i=46
Escherichia coli	K-12 MG1655	RpoD	GSE41195	https://doi.org/10.1371/journal.pgen.1003565	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=RpoD&genome=NC_000913.3&i=51

Escherichia coli	K-12 MG1655	RpoH	GSE60668		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=RpoH&genome=NC_000913.3&i=54
Escherichia coli	K-12 MG1655	StpA	GSE181767		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=StpA&genome=NC_000913.3&i=40
Escherichia coli	K-12 MG1655	TopA	GSE181767		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=TopA&genome=NC_000913.3&i=41
Escherichia coli	K-12 MG1655	Tus	GSE181767		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=Tus&genome=NC_000913.3&i=42
Escherichia coli	K-12 MG1655	UvrY	GSE74810	https://dx.doi.org/10.1371%2Fjournal.pone.0145035	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=UvrY&genome=NC_000913.3&i=64
Escherichia coli	K-12 MG1655	YbaO	GSE111095	https://doi.org/10.1093/nar/gky752	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=YbaO&genome=NC_000913.3&i=10
Escherichia coli	K-12 MG1655	YbaQ	GSE111095	https://doi.org/10.1093/nar/gky752	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=YbaQ&genome=NC_000913.3&i=11
Escherichia coli	K-12 MG1655	YdcI	GSE111095	https://doi.org/10.1093/nar/gky752	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=YdcI&genome=NC_000913.3&i=12
Escherichia coli	K-12 MG1655	YddM	GSE111095	https://doi.org/10.1093/nar/gky752	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=YddM&genome=NC_000913.3&i=13
Escherichia coli	K-12 MG1655	YheO	GSE111095	https://doi.org/10.1093/nar/gky752	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=YheO&genome=NC_000913.3&i=14
Escherichia coli	K-12 MG1655	YiaG	GSE159777	https://doi.org/10.1101/2021.06.10.447994	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=YiaG&genome=NC_000913.3&i=15
Escherichia coli	K-12 MG1655	YieP	GSE111095	https://doi.org/10.1093/nar/gky752	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=YieP&genome=NC_000913.3&i=16
Escherichia coli	K-12 MG1655	YihL	GSE159777	https://doi.org/10.1101/2021.06.10.447994	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=YihL&genome=NC_000913.3&i=17
Escherichia coli	K-12 MG1655	YihW	GSE159777	https://doi.org/10.1101/2021.06.10.447994	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=YihW&genome=NC_000913.3&i=18
Escherichia coli	K-12 MG1655	YjdC	GSE159777	https://doi.org/10.1101/2021.06.10.447994	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=YjdC&genome=NC_000913.3&i=19
Escherichia coli	K-12 MG1655	YjhI	GSE159777	https://doi.org/10.1101/2021.06.10.447994	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=YjhI&genome=NC_000913.3&i=20
Escherichia coli	K-12 MG1655	YneJ	GSE159777	https://doi.org/10.1101/2021.06.10.447994	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=YneJ&genome=NC_000913.3&i=21

Escherichia coli	K-12 MG1655	YnfL	GSE159777	https://doi.org/10.1101/2021.06.10.447994	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=YnfL&genome=NC_000913.3&i=22
Escherichia coli	K-12 MG1655	YpdC	GSE159777	https://doi.org/10.1101/2021.06.10.447994	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=YpdC&genome=NC_000913.3&i=23
Escherichia coli	K-12 MG1655	YqhC	GSE159777	https://doi.org/10.1101/2021.06.10.447994	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=YqhC&genome=NC_000913.3&i=24
Escherichia coli	K-12 MG1655	ZraR	GSE143856	https://doi.org/10.1128/mSystems.00980-20	https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=ZraR&genome=NC_000913.3&i=25
Escherichia coli	K-12 MG1655	mixed-TFs-pool1a	GSE182078		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=mixed-TFs-pool1a&genome=NC_000913.3&i=55
Escherichia coli	K-12 MG1655	mixed-TFs-pool1b	GSE182078		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=mixed-TFs-pool1b&genome=NC_000913.3&i=56
Escherichia coli	K-12 MG1655	mixed-TFs-pool1c	GSE182078		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=mixed-TFs-pool1c&genome=NC_000913.3&i=57
Escherichia coli	K-12 MG1655	mixed-TFs-pool2	GSE182078		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=mixed-TFs-pool2&genome=NC_000913.3&i=58
Escherichia coli	K-12 MG1655	mixed-TFs-pool3	GSE182078		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=mixed-TFs-pool3&genome=NC_000913.3&i=59
Escherichia coli	K-12 MG1655	mixed-TFs-pool4	GSE182078		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=mixed-TFs-pool4&genome=NC_000913.3&i=60
Escherichia coli	K-12 MG1655	mixed-TFs-pool5	GSE182078		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=mixed-TFs-pool5&genome=NC_000913.3&i=61
Escherichia coli	O157:H7 EDL933	Fur	GSE181770		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=Fur&genome=AE005174.2&i=26
Escherichia coli	SMS-3-5	Fur	GSE181770		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=Fur&genome=NC_010498.1&i=27
Escherichia coli	UMN026	Fur	GSE181770		https://prochipdb.org/tf_dashboard.html?organism=e_coli&tf=Fur&genome=CU928163.2&i=28
Klebsiella pneumoniae	MGH 78578	Fur	GSE181770		https://prochipdb.org/tf_dashboard.html?organism=k_pneumoniae&tf=Fur&genome=CP000647.1&i=0
Leptospira interrogans	Copenhageni Fiocruz L1-130	LexA1	GSE73688	https://doi.org/10.1093/nar/gkv1536	https://prochipdb.org/tf_dashboard.html?organism=l_interrogans&tf=LexA1&genome=NC_005823.1&i=0
Mycobacterium tuberculosis	H37Rv	EspR	GSE35149	https://doi.org/10.1371/journal.ppat.1002621	https://prochipdb.org/tf_dashboard.html?organism=m_tuberculosis&tf=EspR&genome=NC_000962.2&i=0

Pseudomonas aeruginosa	PAO1	AlgR	GSE65356	https://doi.org/10.1093/nar/gkv747	https://prochipdb.org/tf_dashboard.html?organism=p_aeruginosa&tf=AlgR&genome=NC_002516.2&i=9
Pseudomonas aeruginosa	PAO1	ExsA	GSE65356	https://doi.org/10.1093/nar/gkv747	https://prochipdb.org/tf_dashboard.html?organism=p_aeruginosa&tf=ExsA&genome=NC_002516.2&i=10
Pseudomonas aeruginosa	PAO1	FleQ	GSE128430	https://doi.org/10.1038/s41467-019-10778-w	https://prochipdb.org/tf_dashboard.html?organism=p_aeruginosa&tf=FleQ&genome=NC_002516.2&i=0
Pseudomonas aeruginosa	PAO1	GacA	GSE65356	https://doi.org/10.1093/nar/gkv747	https://prochipdb.org/tf_dashboard.html?organism=p_aeruginosa&tf=GacA&genome=NC_002516.2&i=11
Pseudomonas aeruginosa	PAO1	GbdR	GSE128430	https://doi.org/10.1038/s41467-019-10778-w	https://prochipdb.org/tf_dashboard.html?organism=p_aeruginosa&tf=GbdR&genome=NC_002516.2&i=1
Pseudomonas aeruginosa	PAO1	MexT	GSE65356	https://doi.org/10.1093/nar/gkv747	https://prochipdb.org/tf_dashboard.html?organism=p_aeruginosa&tf=MexT&genome=NC_002516.2&i=12
Pseudomonas aeruginosa	PAO1	MvfR	GSE65356	https://doi.org/10.1093/nar/gkv747	https://prochipdb.org/tf_dashboard.html?organism=p_aeruginosa&tf=MvfR&genome=NC_002516.2&i=5
Pseudomonas aeruginosa	PAO1	PchR	GSE128430	https://doi.org/10.1038/s41467-019-10778-w	https://prochipdb.org/tf_dashboard.html?organism=p_aeruginosa&tf=PchR&genome=NC_002516.2&i=2
Pseudomonas aeruginosa	PAO1	PhoB	GSE128430	https://doi.org/10.1038/s41467-019-10778-w	https://prochipdb.org/tf_dashboard.html?organism=p_aeruginosa&tf=PhoB&genome=NC_002516.2&i=3
Pseudomonas aeruginosa	PAO1	RpoN	GSE65356	https://doi.org/10.1093/nar/gkv747	https://prochipdb.org/tf_dashboard.html?organism=p_aeruginosa&tf=RpoN&genome=NC_002516.2&i=7
Pseudomonas aeruginosa	PAO1	SoxR	GSE65356	https://doi.org/10.1093/nar/gkv747	https://prochipdb.org/tf_dashboard.html?organism=p_aeruginosa&tf=SoxR&genome=NC_002516.2&i=6
Pseudomonas aeruginosa	PAO1	SphR	GSE128430	https://doi.org/10.1038/s41467-019-10778-w	https://prochipdb.org/tf_dashboard.html?organism=p_aeruginosa&tf=SphR&genome=NC_002516.2&i=4
Pseudomonas aeruginosa	PAO1	Vfr	GSE65356	https://doi.org/10.1093/nar/gkv747	https://prochipdb.org/tf_dashboard.html?organism=p_aeruginosa&tf=Vfr&genome=NC_002516.2&i=8
Pseudomonas aeruginosa	PAO1	WspR	GSE65356	https://doi.org/10.1093/nar/gkv747	https://prochipdb.org/tf_dashboard.html?organism=p_aeruginosa&tf=WspR&genome=NC_002516.2&i=13
Pseudomonas fluorescens	F113	AmrZ	SRP039494	https://doi.org/10.1186/1471-2164-15-237	https://prochipdb.org/tf_dashboard.html?organism=p_fluorescens&tf=AmrZ&genome=NC_016830.1&i=0
Pseudomonas putida	KT2440	Fur	GSE181775		https://prochipdb.org/tf_dashboard.html?organism=p_putida&tf=Fur&genome=NC_002947.4&i=0
Pseudomonas putida	KT2440	Sigma D	GSE181775		https://prochipdb.org/tf_dashboard.html?organism=p_putida&tf=SigmaD&genome=NC_002947.4&i=1

Salmonella enterica	Typhimurium LT2	Fur	GSE181770		https://prochipdb.org/tf_dashboard.html?organism=s_enterica&tf=Fur&genome=NC_003197.2&i=0
Salmonella enterica	Typhimurium LT2	YdcI	GSE181791		https://prochipdb.org/tf_dashboard.html?organism=s_enterica&tf=YdcI&genome=NC_003197.2&i=1
Shigella flexneri	2a, 2457T	Fur	GSE181770		https://prochipdb.org/tf_dashboard.html?organism=s_flexneri&tf=Fur&genome=AE014073.1&i=0
Staphylococcus aureus	LAC chromosome	CodY	GSE159856	https://doi.org/10.1101/2021.01.08.426013	https://prochipdb.org/tf_dashboard.html?organism=s_aureus&tf=CodY&genome=CP035369.1&i=0
Staphylococcus aureus	USA300_TCH1516	SigS	GSE182080		https://prochipdb.org/tf_dashboard.html?organism=s_aureus&tf=SigS&genome=NC_010079&i=1
Staphylococcus aureus	USA300_TCH1516	VraR	GSE182080		https://prochipdb.org/tf_dashboard.html?organism=s_aureus&tf=VraR&genome=NC_010079&i=2
Streptomyces coelicolor	A3(2) M145	HrdB	E-MTAB-6926	https://doi.org/10.1093/nar/gky1018	https://prochipdb.org/tf_dashboard.html?organism=s_coelicolor&tf=HrdB&genome=NC_003888.3&i=0
Streptomyces coelicolor	A3(2) M145	NdgR	GSE59010	https://doi.org/10.1186/s12864-015-1311-0	https://prochipdb.org/tf_dashboard.html?organism=s_coelicolor&tf=NdgR&genome=NC_003888.3&i=1
Streptomyces coelicolor	A3(2) M145	ScbR	GSE64903	https://doi.org/10.1038/srep14831	https://prochipdb.org/tf_dashboard.html?organism=s_coelicolor&tf=ScbR&genome=NC_003888.3&i=2
Streptomyces coelicolor	A3(2) M145	ScbR2	GSE64903	https://doi.org/10.1038/srep14831	https://prochipdb.org/tf_dashboard.html?organism=s_coelicolor&tf=ScbR2&genome=NC_003888.3&i=3
Streptomyces venezuelae	ATCC 10712	Lsr2	GSE115439	https://doi.org/10.7554/eLife.47691	https://prochipdb.org/tf_dashboard.html?organism=s_venezuelae&tf=Lsr2&genome=NC_018750.1&i=0
Yersinia pseudotuberculosis	IP 32953	Fur	GSE181770		https://prochipdb.org/tf_dashboard.html?organism=y_pseudotuberculosis&tf=Fur&genome=NZ_CP009712.1&i=0