

Appendix

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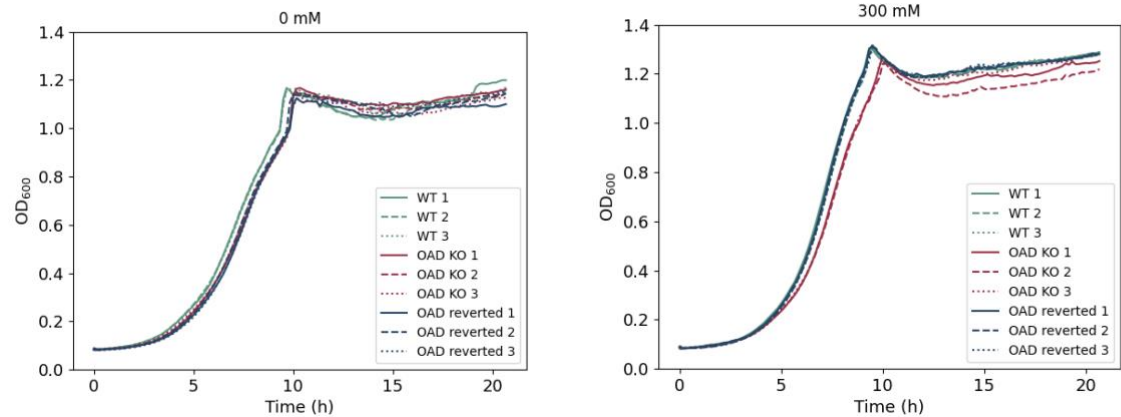
		iLC858	
		Essential 182	Non-essential 676
Lee et al. (2016)	Essential 171	83	88
	Non-essential 687	99	588

Measure	Value
Sensitivity	0.4854
Specificity	0.8559
Precision	0.456
Negative Predictive Value	0.8698
False Positive Rate	0.1441
False Discovery Rate	0.544
False Negative Rate	0.5146
Accuracy	0.7821
F1 Score	0.4703
Matthews Correlation Coefficient	0.3335

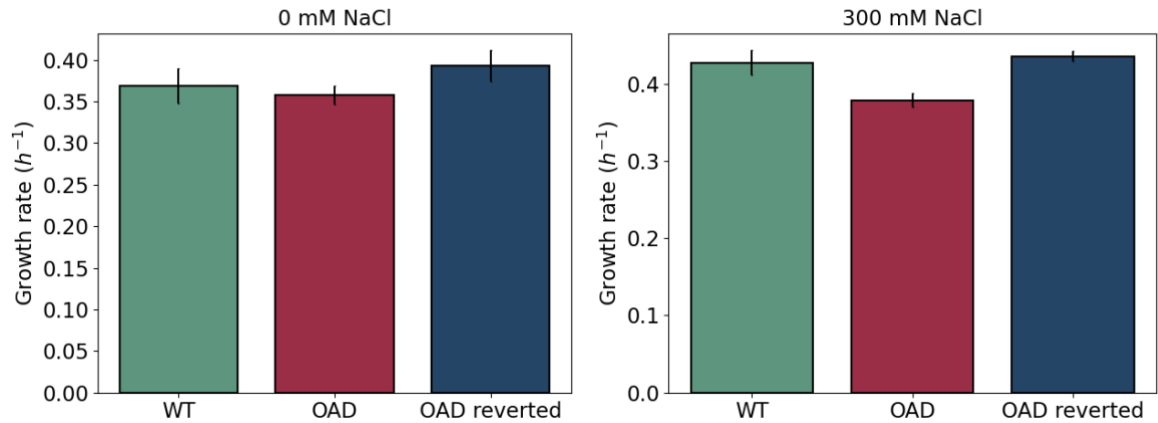
Appendix Table S1. Confusion matrix comparing the gene essentiality data between iLC858 gene essentiality predictions and the gene essentiality study performed by Lee et al. (2016)

0 mM		300 mM	
Sample	Timepoint at which OD ₆₀₀ = 1.0	Sample	Timepoint at which OD ₆₀₀ = 1.0
WT 1	9.5	WT 1	8.2
WT 2	9.5	WT 2	8.3
WT 3	9.5	WT 3	8.3
OAD KO 1	9.8	OAD KO 1	9
OAD KO 2	9.8	OAD KO 2	8.8
OAD KO 3	9.8	OAD KO 3	8.8
OAD reverted 1	10	OAD reverted 1	8.2
OAD reverted 2	9.8	OAD reverted 2	8.2
OAD reverted 3	9.8	OAD reverted 3	3

Appendix Table S2. Time it takes for the WT, OAD KO and OAD reverted strains cultures in Figure S2 to reach OD₆₀₀ = 1



Appendix Figure S1. Growth curves of the individual replicates of the WT, OAD KO and OAD reverted strains on 0 mM and 300 mM



Appendix Figure S2. Mean growth rates of the WT, OAD KO and OAD reverted strains cultures from Figure S2 at OD = 0.3