

WEEK 3

4.14 Juan Luo

HMA gradient verification

HMA gradient verification was performed on 16-F4 to test the relationship between the response effect of 16-F4 and HMA concentration. 16-F4 can respond to HMA to a certain extent. But increasing HMA concentration did not enhance the response effect significantly.

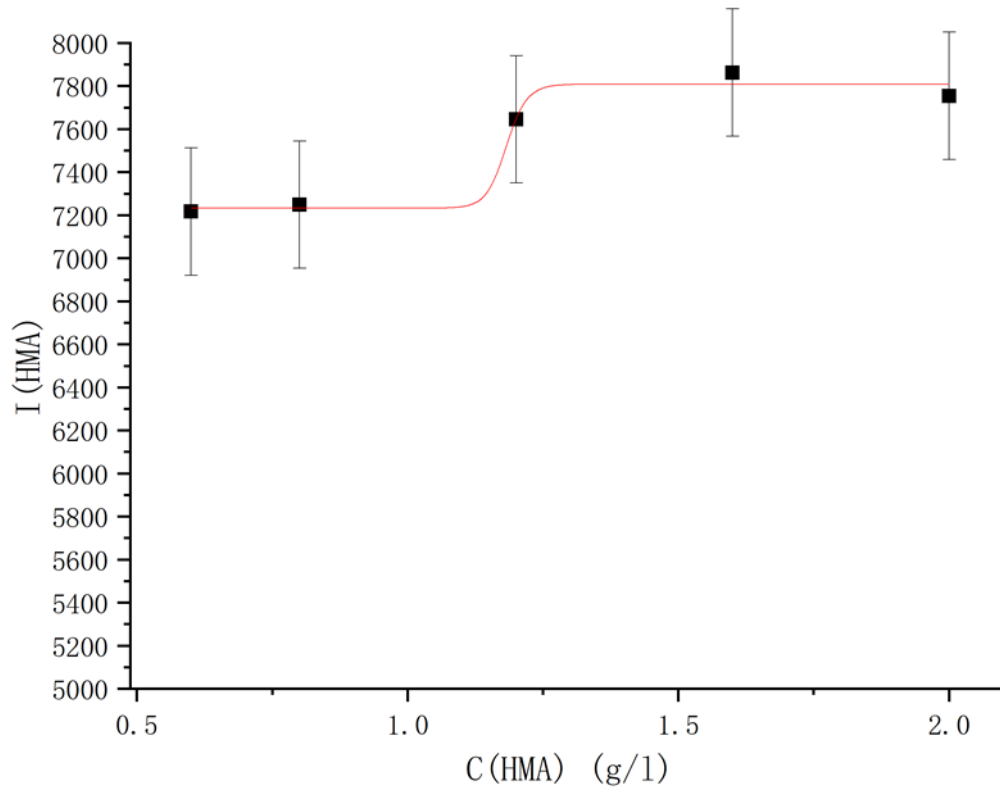


Figure 1 HMA gradient verification data of 16-F4

4.17 Jiaqi Zhang

Sequencing

We sequenced 16-F4 and 18-B4 and compared the mutation sites of them.

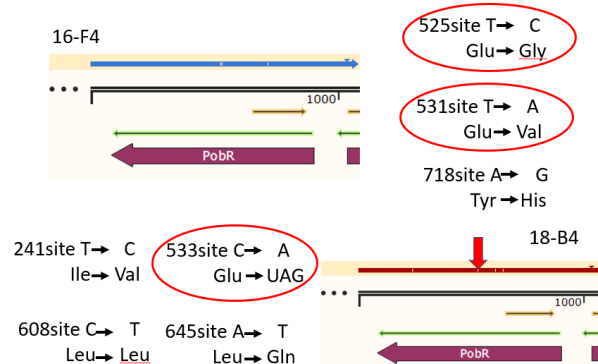


Figure 2 The mutation site in *PobR* of 16-F4 and 18-B4

4.20 Jingwen Chu

Re-screening

It can be seen that even after a round of rescreening for strains, there is still a large difference in the values of parallel experiments, so the rescreening conditions need to be improved. We selected T5-8 strain with better data for streaking culture to eliminate errors caused by deep-hole plate and enzyme reader.

7003.658131	5564.661926	7253.384913	6310.27001	5949.585635	7551.494053	22861.30173	22295.99486	19286.83561	6503.180603	12028.82594	8019.316266	IO
6895.864474	1446.113495	14743.85908	5828.571429	3904.023267	12410.43542	21888.09654	17836.01647	19498.64089	18157.48441	9369.552915	9370.215093	IB
4650.548557	11127.9308	6262.186268	1251.552024	4509.869897	3082.77635	19690.08898	22110.24073	20915.50874	5738.325991	9029.614889	5751.290474	IA
8424.484827	-1969.386361	4073.10705	6165.42948	2277.315914	6646.117132	5222.996848	2592.741127	5769.57164	3456.571284	4326.894937	6836.711963	IO
7434.613941	3680.809821	3786.133449	1672.408045	4357.547656	2182.334983	12677.12445	13163.45702	9829.825798	4866.395764	9568.149211	8680.049344	IB
7689.722271	-20942.28841	-628.4483919	-1647.934386	-4124.547429	83.54096439	-193.5297516	-3259.576051	8276.116951	10095.82287	11644.9457	1293.93785	IA

Figure 3 Re-screening validation data of T5 plate