

ASAP (Expression Only): SARS-CoV2-N-Prot (CVNPRO-c001k001e001), SARS-CoV2 Immature & Zika NS3(ZVNS3c003k006e007)

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Experiment Started:

Last Modified: **2025-06-17 12:42:04**

Expression Time Course

SARSCoV2 Immature: 1 x 1L (24.3g final pellet)

SARSCoV2 N-Prot: 6 x 1L (149.1g final pellet, 24.85 g/L)

Zika NS3: 4 x 1L (121.5 g final pellet, 30.38 g/L)

11/7/24

9:05 Inoculate 1 L bags with 10ml/L starter culture at OD600 as follows

Incubate 37c, air 1 lpm

12:45 drop temp to ambient

16:45 sampled

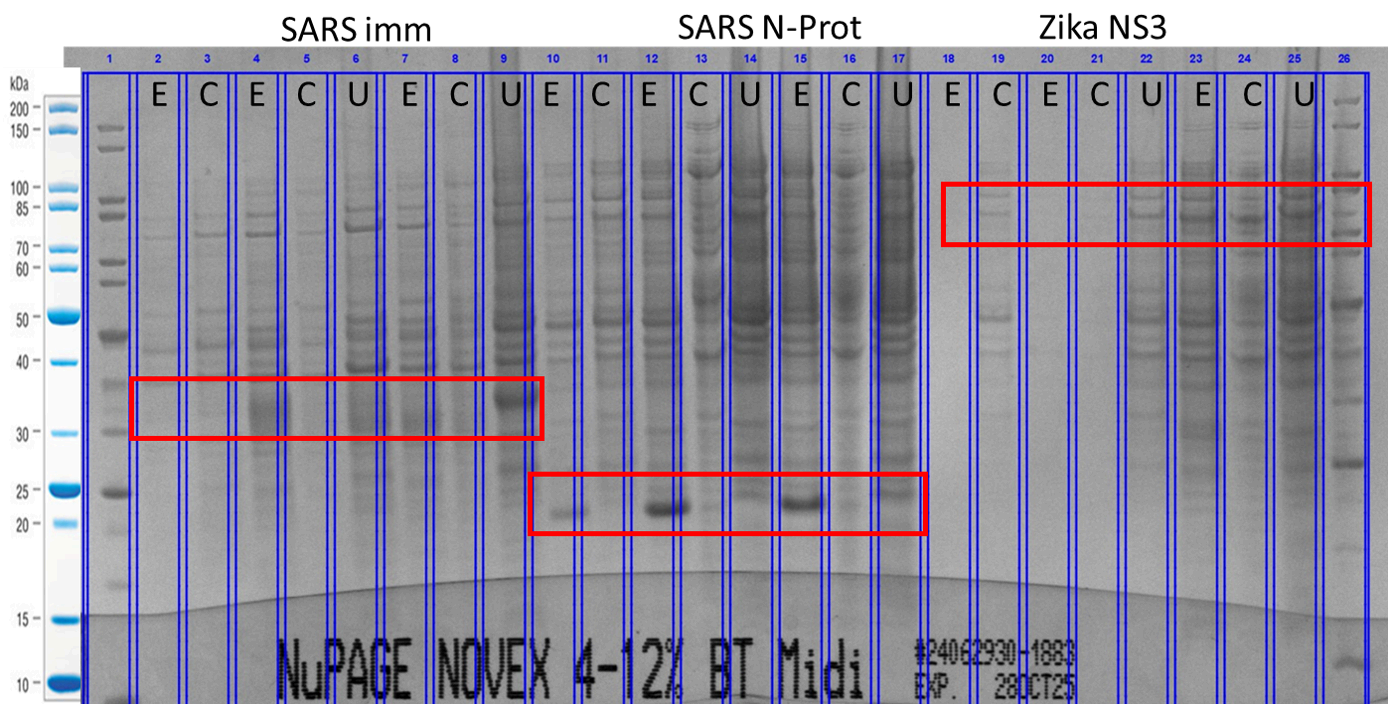
12/7/24

08:00 harvested

Table_SARS_NProtImm_ZikaNS3

		LADDER	1	
SARS-CoV2 (immature)	12:45 (Inoculation +3h40m)	Eluate	2	
		Cell debris	3	
		Eluate	4	
	16:45 (Inoculation +7h40m, IPTG +0h)	Cell debris	5	
		Unbound protein	6	
		Eluate	7	
	09:05 (Inoculation +21h, IPTG +16h20m)	Cell debris	8	
		Unbound protein	9	
		Eluate	10	
SARS-CoV2 (N-Prot)	12:45 (Inoculation +3h40m)	Cell debris	11	
		Eluate	12	
		Cell debris	13	
	16:45 (Inoculation +7h40m, IPTG +0h)	Unbound protein	14	
		Eluate	15	
		Cell debris	16	
	09:05 (Inoculation +21h, IPTG +16h20m)	Unbound protein	17	
		Eluate	18	
		Cell debris	19	
Zika Helicase NS3	12:45 (Inoculation +3h40m)	Eluate	20	
		Cell debris	21	
		Unbound protein	22	
	16:45 (Inoculation +7h40m, IPTG +0h)	Eluate	23	
		Cell debris	24	
		Unbound protein	25	
			LADDER	26

SARS_NProtImm_ZikaNS3



Notes on gel 24062930-1883

Lane 18 and 19 were loaded the wrong way round

SARSCoV2 Immature: Doesn't have a HIS tag so that is why it is in the Unbound fraction. There is something diffuse in the lanes from earlier samples, but it is only Lane 9 where it seems to really get going.

SARSCoV2 N-Prot: Clear bands

Zika NS3: Known to be a very poor expressing protein. Faint band between the 70-85 kDa ladder markers.

Summary

SARSCoV2 Immature: May benefit from a much longer expression protocol

SARSCoV2 N-Prot: Shorter protocol is probably fine

Zika NS3: check QC, but it will just need very large volumes.