

Supplement figure S1: Microphotographs of Vero-dogSLAM cells co-transfected with the constructs specified in figure 2B (**A**), figure 3B (**B**), figure 5B (**C**) and figure 7A (**D**). Roman numerals and construct identifiers correspond to those introduced in the individual figures. Pictures were taken 13-20 hours posttransfection at a magnification of 200X.

Supplement figure S2: Quantification of surface expression of F (**A** and **B**) and H (**C**) constructs. Surface biotinylation was employed for all F variants and whole cell imaging was used for H constructs. Values represent averages of at least three independent experiments \pm SD and are expressed as percentage of surface expression observed for CDV F-ODP (for F constructs) or MV H (for H constructs). Roman numerals and construct identifiers correspond to those introduced in figure 2B (**A**), figure 3B (**B**) and figure 5B (**C**).

Figure S1

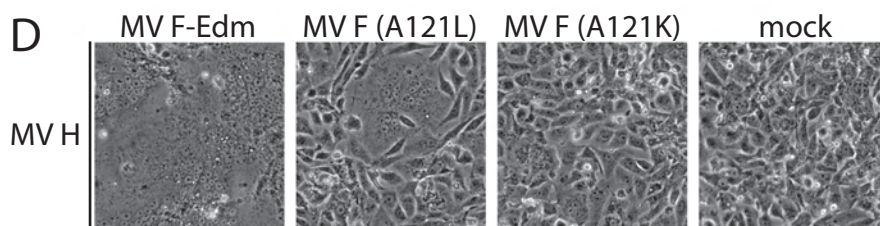
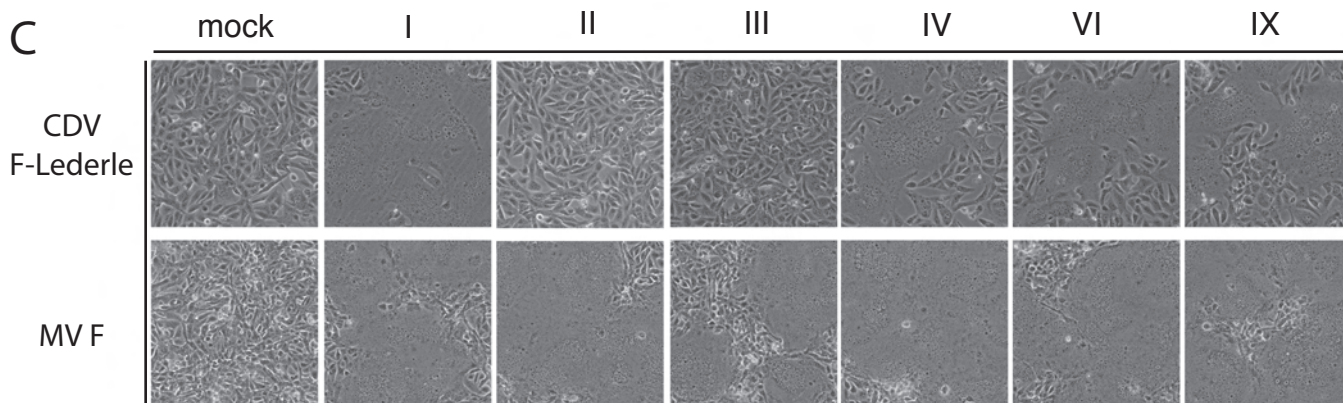
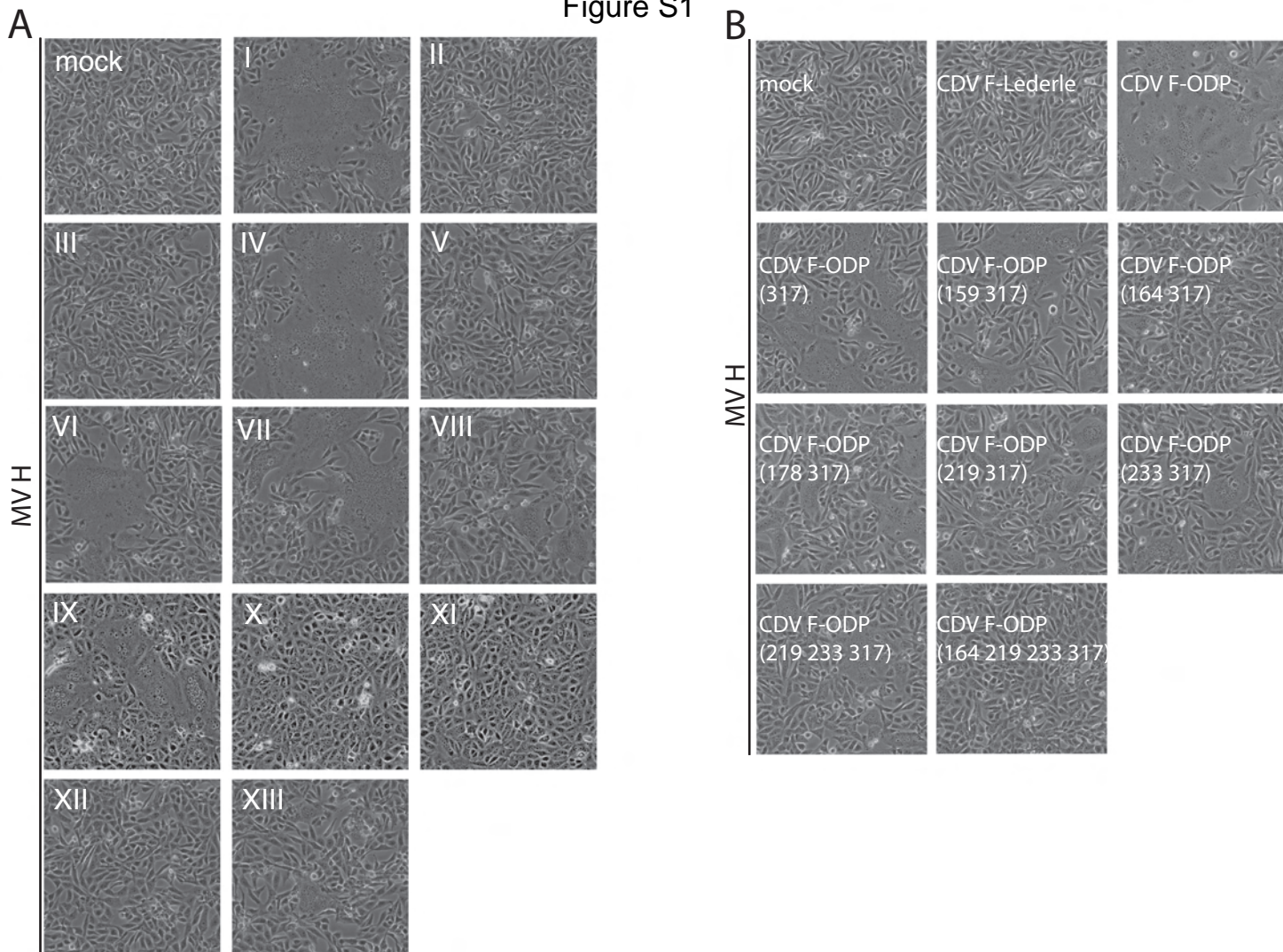


Figure S2

A	Surface Expression (%)	
I	100	
II	113.6 ± 21.1	
III	113.8 ± 32.5	
IV	86.1 ± 5.0	
V	101.7 ± 37.5	
VI	28.3 ± 15.1	
VII	31.0 ± 4.2	
VIII	207.2 ± 58.4	
IX	86.9 ± 4.9	
X	106.9 ± 5.9	
XI	110.1 ± 10.2	
XII	275.4 ± 29.4	
XIII	185.7 ± 32.7	
XIV	81.3 ± 14.1	

B	Surface Expression(%)
CDV F ODP	100
CDV F Lederle	113.6 ± 21.1
CDV F (317)	152.6 ± 22.4
CDV F (159, 317)	113.9 ± 7.5
CDV F (164, 317)	167.6 ± 45.4
CDV F (178, 317)	72.4 ± 33.2
CDV F (219, 317)	148.1 ± 4.0
CDV F (233, 317)	115.2 ± 65.5
CDV F (219, 233, 317)	153.4 ± 51.7
CDV F (164, 219, 233, 317)	148.6 ± 8.3

C	Surface Expression (%)
I	124.2 ± 22.0
II	100
III	139.5 ± 50.2
IV	65.1 ± 8.9
V	136.3 ± 72.1
VI	87.0 ± 30.0
VII	81.2 ± 6.9
VIII	67.0 ± 2.3
IX	69.4 ± 29.8
XI	88.4 ± 28.0
XII	90.2 ± 15.6
XIII	99.9 ± 26.2