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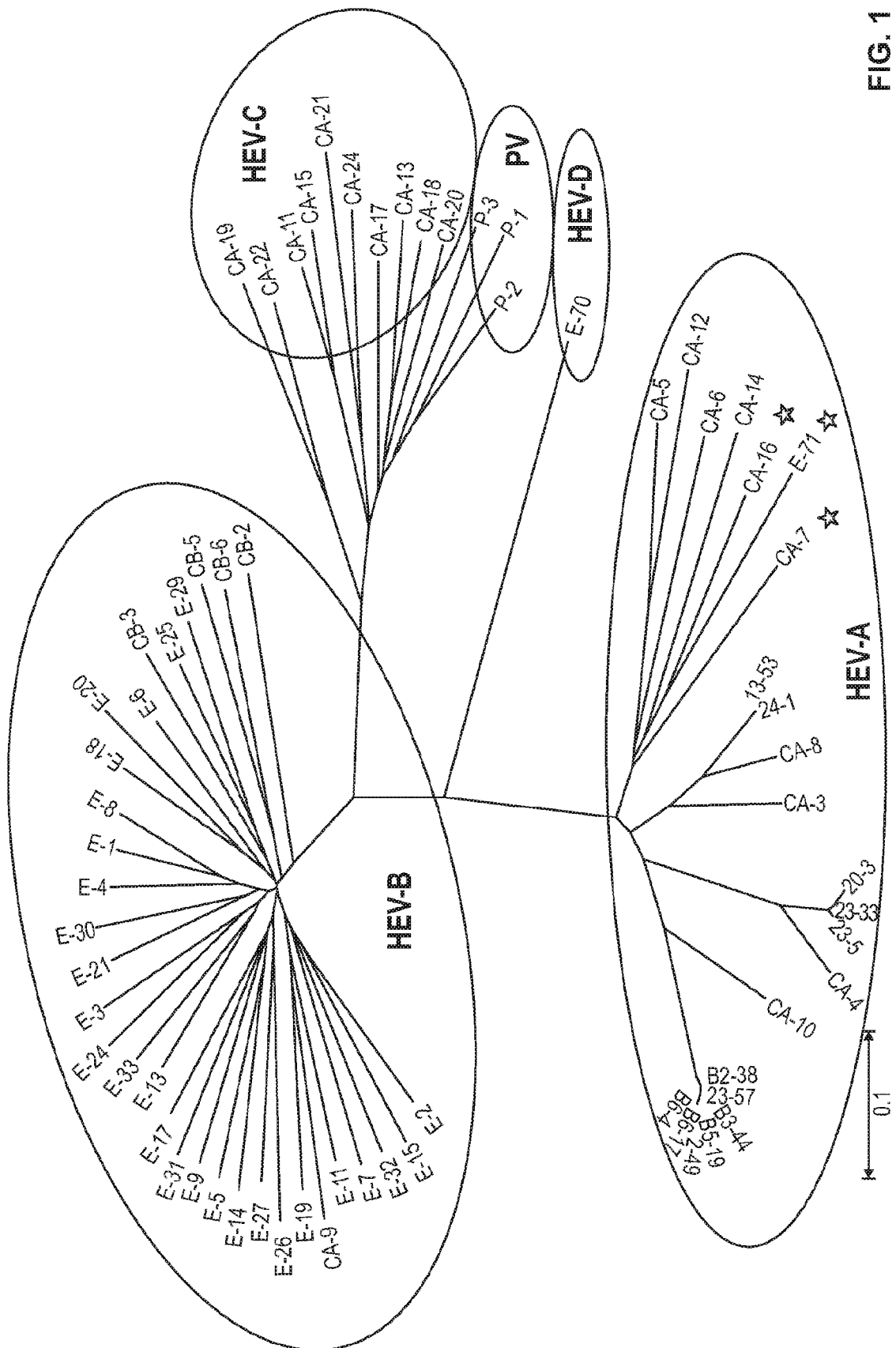


FIG. 1

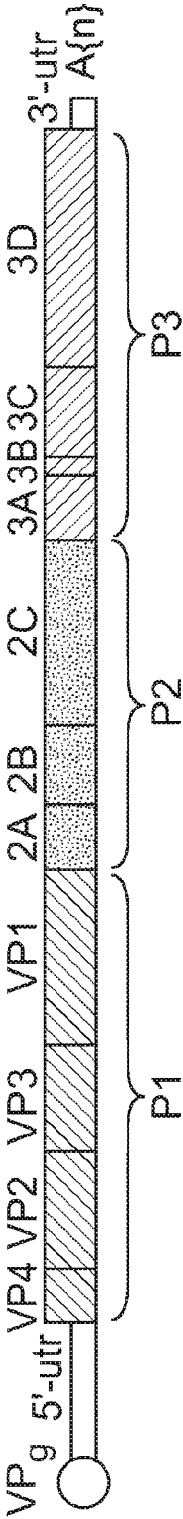


FIG. 2

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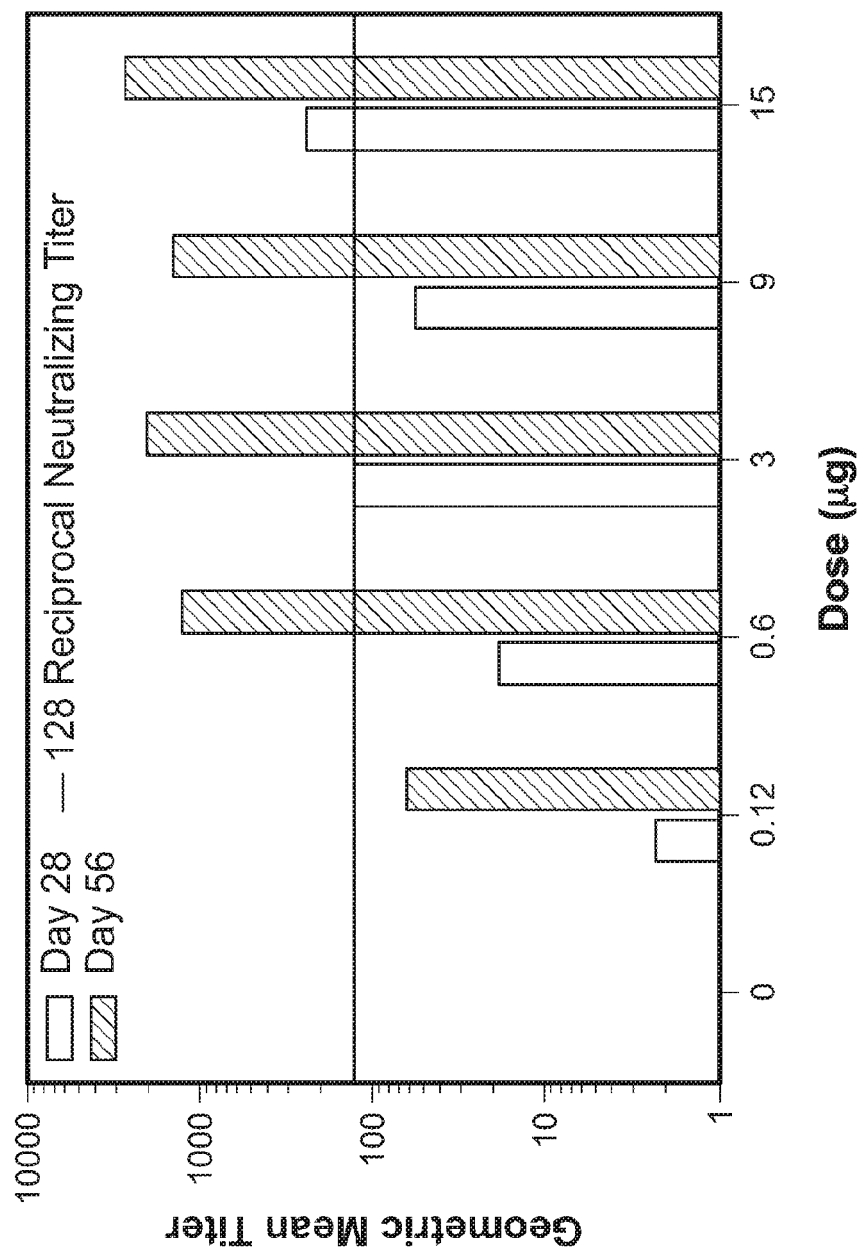


FIG. 3

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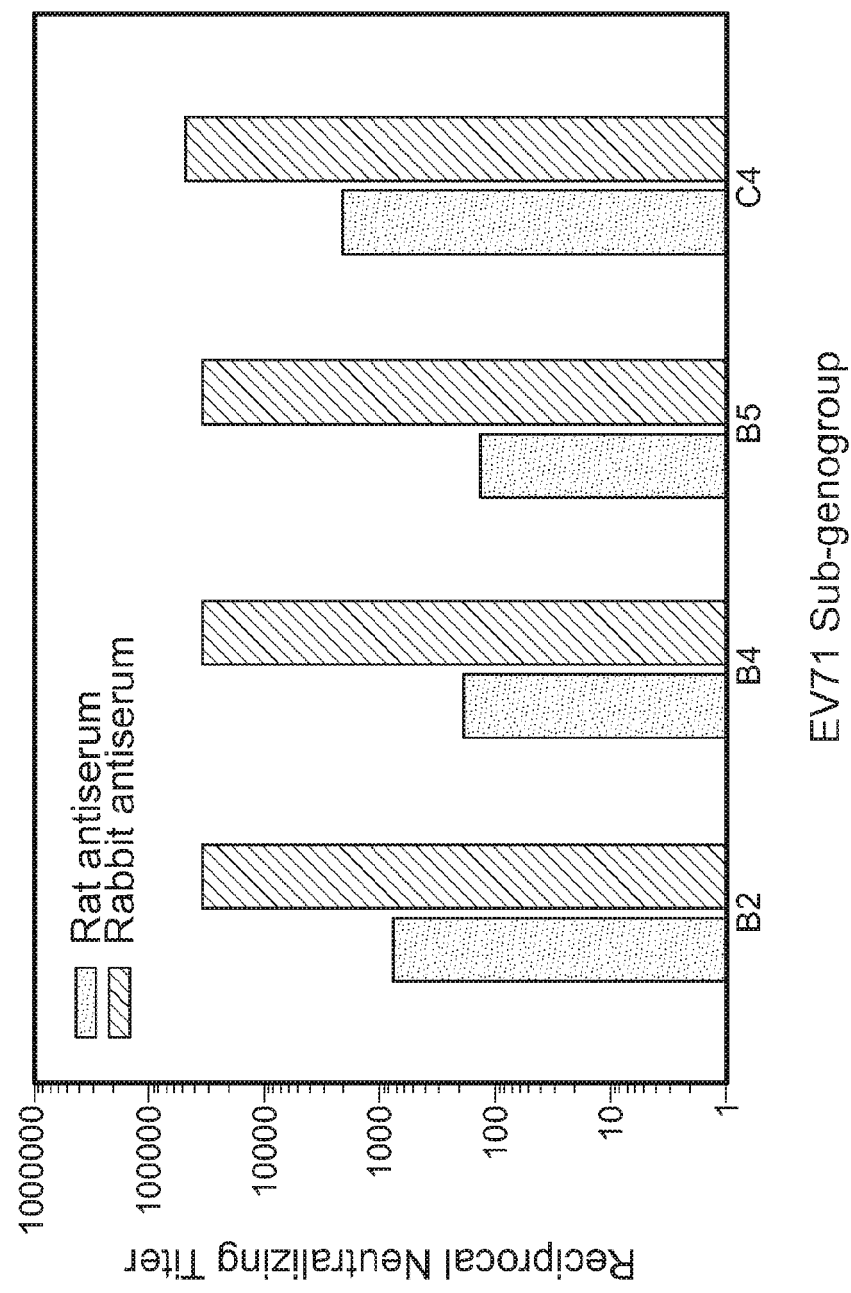


FIG. 4

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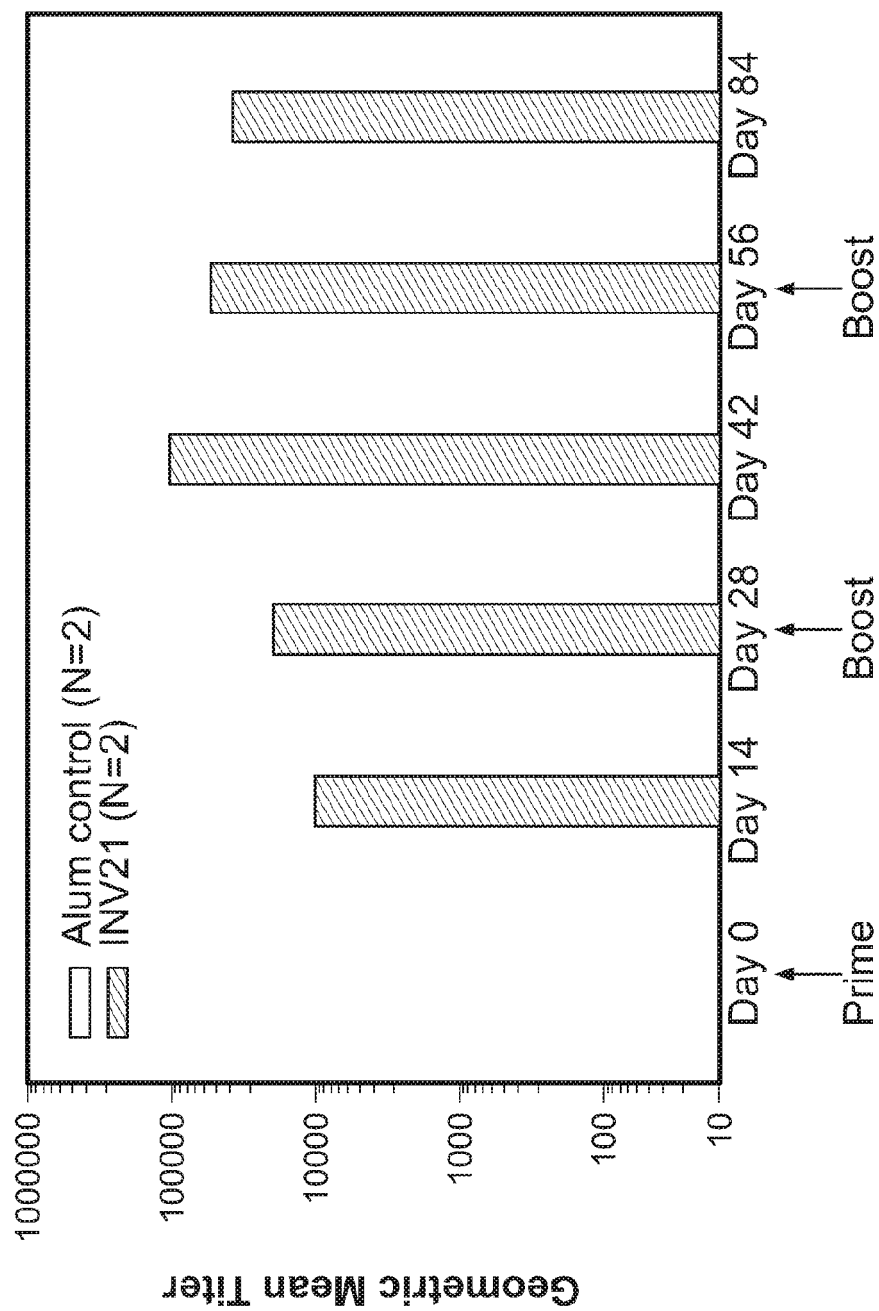
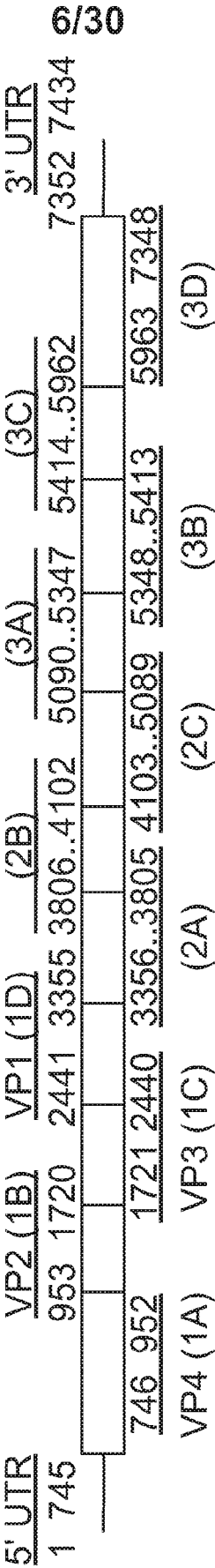


FIG. 5



CVA6 (7434 bp)

FIG. 6

SEQ ID NO: 15	n28297_CVA	NDPIANAVESAVSALADTTISRVTAAATAASTHSLGTGRVPALQAAETGASSNASDENLI	60
SEQ ID NO: 16	n40428CVA6	NDPIANAVESAVSALADTTISRVTAAATAASTHSLGTGRVPALQAAETGASSNASDENLI	
SEQ ID NO: 17	CVAP0	NDPIANAVESAVSALADTTISRVTAAATAASTHSLGTGRVPALQAAETGASSNASDENLI	
SEQ ID NO: 18	CVA6	NDPIANAVESAVSALADTTISRVTAAATAASTHSLGTGRVPALQAAETGASSNASDENLI	
SEQ ID NO: 19	CVA6_P11	NDPIANAVESAVSALADTTISRVTAAATAASTHSLGTGRVPALQAAETGASSNASDENLI	
SEQ ID NO: 20	Shizuoka_1	NDPIANAVESAVSALADTTISRVTAAATAASTHSLGTGRVPALQAAETGASSNASDENLI	
SEQ ID NO: 21	n0854694_C	NDPIANAVESAVSALADTTISRVTAAATAASTHSLGTGRVPALQAAETGASSNASDENLI	
SEQ ID NO: 22	HN421_CVA6	NDPIANAVESAVSALADTTISRVTAAATAASTHSLGTGRVPALQAAETGASSNASDENLI	
SEQ ID NO: 23	Kyoto1_CVA	NDPIANAVESAVSALADTTISRVTAAATAASTHSLGTGRVPALQAAETGASSNASDENLI	
SEQ ID NO: 24	TW40910_CV	NDPIANAVESAVSALADTTISRVTAAATAASTHSLGTGRVPALQAAETGASSNASDENLI	
		5 10 14 33 46	
SEQ ID NO: 15	n28297_CVA	ETRCVMNRNGVNEASVEHFYSRAGLVGVVEVKDSGTSLDGYTWPIDVMGFVQRRKLEL	120
SEQ ID NO: 16	n40428CVA6	ETRCVMNRNGVNEASVEHFYSRAGLVGVVEVKDSGTSLDGYTWPIDVMGFVQRRKLEL	
SEQ ID NO: 17	CVAP0	ETRCVMNRNGVNEASVEHFYSRAGLVGVVEVKDSGTSLDGYTWPIDVMGFVQRRKLEL	
SEQ ID NO: 18	CVA6	ETRCVMNRNGVNEASVEHFYSRAGLVGVVEVKDSGTSLDGYTWPIDVMGFVQRRKLEL	
SEQ ID NO: 19	CVA6_P11	ETRCVMNRNGVNEASVEHFYSRAGLVGVVEVKDSGTSLDGYTWPIDVMGFVQRRKLEL	
SEQ ID NO: 20	Shizuoka_1	ETRCVMNRNGVNEASVEHFYSRAGLVGVVEVKDSGTSLDGYTWPIDVMGFVQRRKLEL	
SEQ ID NO: 21	n0854694_C	ETRCVMNRNGVNEASVEHFYSRAGLVGVVEVKDSGTSLDGYTWPIDVMGFVQRRKLEL	
SEQ ID NO: 22	HN421_CVA6	ETRCVMNRNGVNEASVEHFYSRAGLVGVVEVKDSGTSLDGYTWPIDVMGFVQRRKLEL	
SEQ ID NO: 23	Kyoto1_CVA	ETRCVMNRNGVNEASVEHFYSRAGLVGVVEVKDSGTSLDGYTWPIDVMGFVQRRKLEL	
SEQ ID NO: 24	TW40910_CV	ETRCVMNRNGVNEASVEHFYSRAGLVGVVEVKDSGTSLDGYTWPIDVMGFVQRRKLEL	
		90 96 98	
SEQ ID NO: 15	n28297_CVA	STYMRDAEFTFVSNLNDSTTPGMILLQYMYVPPGAPKPDGRKSYQWQTATNPISIFAKLSD	180
SEQ ID NO: 16	n40428CVA6	STYMRDAEFTFVSNLNDSTTPGMILLQYMYVPPGAPKPDGRKSYQWQTATNPISIFAKLSD	
SEQ ID NO: 17	CVAP0	STYMRDAEFTFVSNLNDSTTPGMILLQYMYVPPGAPKPDGRKSYQWQTATNPISIFAKLSD	
SEQ ID NO: 18	CVA6	STYMRDAEFTFVSNLNDSTTPGMILLQYMYVPPGAPKPDGRKSYQWQTATNPISIFAKLSD	
SEQ ID NO: 19	CVA6_P11	STYMRDAEFTFVSNLNDSTTPGMILLQYMYVPPGAPKPDGRKSYQWQTATNPISIFAKLSD	
SEQ ID NO: 20	Shizuoka_1	STYMRDAEFTFVSNLNDSTTPGMILLQYMYVPPGAPKPDGRKSYQWQTATNPISIFAKLSD	
SEQ ID NO: 21	n0854694_C	STYMRDAEFTFVSNLNDSTTPGMILLQYMYVPPGAPKPDGRKSYQWQTATNPISIFAKLSD	
SEQ ID NO: 22	HN421_CVA6	STYMRDAEFTFVSNLNDSTTPGMILLQYMYVPPGAPKPDGRKSYQWQTATNPISIFAKLSD	
SEQ ID NO: 23	Kyoto1_CVA	STYMRDAEFTFVSNLNDSTTPGMILLQYMYVPPGAPKPDGRKSYQWQTATNPISIFAKLSD	
SEQ ID NO: 24	TW40910_CV	STYMRDAEFTFVSNLNDSTTPGMILLQYMYVPPGAPKPDGRKSYQWQTATNPISIFAKLSD	
		160 174	

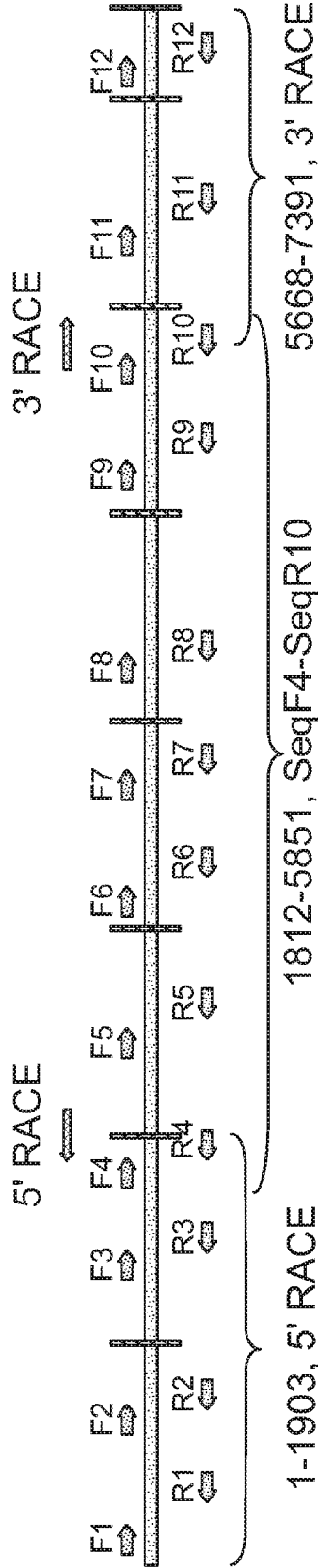
SUBSTITUTE SHEET (RULE 26)

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SEQ ID NO: 15	n28297_CVA 181	PPPVSVPFMSPASAYQWFDGYPTFGEHKQATNLQYGQCPNNMMGHFAIRTVSESTTGK	240
SEQ ID NO: 16	n40428CVA6	PPPVSVPFMSPASAYQWFDGYPTFGEHKQATNLQYGQCPNNMMGHFAIRTVSESTTGK	
SEQ ID NO: 17	CVAP0	PPPVSVPFMSPASAYQWFDGYPTFGEHKQATNLQYGQCPNNMMGHFAIRTVSESTTGK	
SEQ ID NO: 18	CVA6	PPPVSVPFMSPASAYQWFDGYPTFGEHKQATNLQYGQCPNNMMGHFAIRTVSESTTGK	
SEQ ID NO: 19	CVA6_P11	PPPVSVPFMSPASAYQWFDGYPTFGEHKQATNLQYGQCPNNMMGHFAIRTVSESTTGK	
SEQ ID NO: 20	Shizuoka_1	PPPVSVPFMSPASAYQWFDGYPTFGEHKQATNLQYGQCPNNMMGHFAIRTVSESTTGK	
SEQ ID NO: 21	n0854694_C	PPPVSVPFMSPASAYQWFDGYPTFGEHKQATNLQYGQCPNNMMGHFAIRTVSESTTGK	
SEQ ID NO: 22	HN421_CVA6	PPPVSVPFMSPASAYQWFDGYPTFGEHKQATNLQYGQCPNNMMGHFAIRTVSESTTGK	
SEQ ID NO: 23	Kyoto1_CV	PPPVSVPFMSPASAYQWFDGYPTFGEHKQATNLQYGQCPNNMMGHFAIRTVSESTTGK	
SEQ ID NO: 24	TW40910_CV	PPPVSVPFMSPASAYQWFDGYPTFGEHKQATNLQYGQCPNNMMGHFAIRTVSESTTGK	
SEQ ID NO: 15	n28297_CVA 241	NVHVRVYMRKIHVRAWVPRPFRSQAYMVKNYPTYNQITINATDRASITTT-----	300
SEQ ID NO: 16	n40428CVA6	NVHVRVYMRKIHVRAWVPRPFRSQAYMVKNYPTYNQITINATDRASITTT-----	
SEQ ID NO: 17	CVAP0	NVHVRVYMRKIHVRAWVPRPFRSQAYMVKNYPTYNQITINATDRASITTTDYEGGV PAN	
SEQ ID NO: 18	CVA6	NVHVRVYMRKIHVRAWVPRPFRSQAYMVKNYPTYNQITINATDRASITTTDYEGGV PAN	
SEQ ID NO: 19	CVA6_P11	NVHVRVYMRKIHVRAWVPRPFRSQAYMVKNYPTYNQITINATDRASITTTDYEGGV PAN	
SEQ ID NO: 20	Shizuoka_1	NVHVRVYMRKIHVRAWVPRPFRSQAYMVKNYPTYNQITINATDRASITTTDYEGGV PAN	
SEQ ID NO: 21	n0854694_C	NVHVRVYMRKIHVRAWVPRPFRSQAYMVKNYPTYNQITINATDRASITTT-----	
SEQ ID NO: 22	HN421_CVA6	NVHVRVYMRKIHVRAWVPRPFRSQAYMVKNYPTYNQITINATDRASITTTDYEGGV PAN	
SEQ ID NO: 23	Kyoto1_CV	NVHVRVYMRKIHVRAWVPRPFRSQAYMVKNYPTYNQITINATDRASITTTDYEGGV PAN	
SEQ ID NO: 24	TW40910_CV	NVHVRVYMRKIHVRAWVPRPFRSQAYMVKNYPTYNQITINATDRASITTTDYEGGV PAN	
SEQ ID NO: 15	n28297_CVA 301	-----305	
SEQ ID NO: 16	n40428CVA6	-----	
SEQ ID NO: 17	CVAP0	PQRTIS	
SEQ ID NO: 18	CVA6	PQRTIS	
SEQ ID NO: 19	CVA6_P11	PQRTIS	
SEQ ID NO: 20	Shizuoka_1	PQRTIS	
SEQ ID NO: 21	n0854694_C	-----	
SEQ ID NO: 22	HN421_CVA6	PQRTIS	
SEQ ID NO: 23	Kyoto1_CV	PQRTIS	
SEQ ID NO: 24	TW40910_CV	PQRTIS	
			305

FIG. 7 (Cont.)

CVA16 Primers



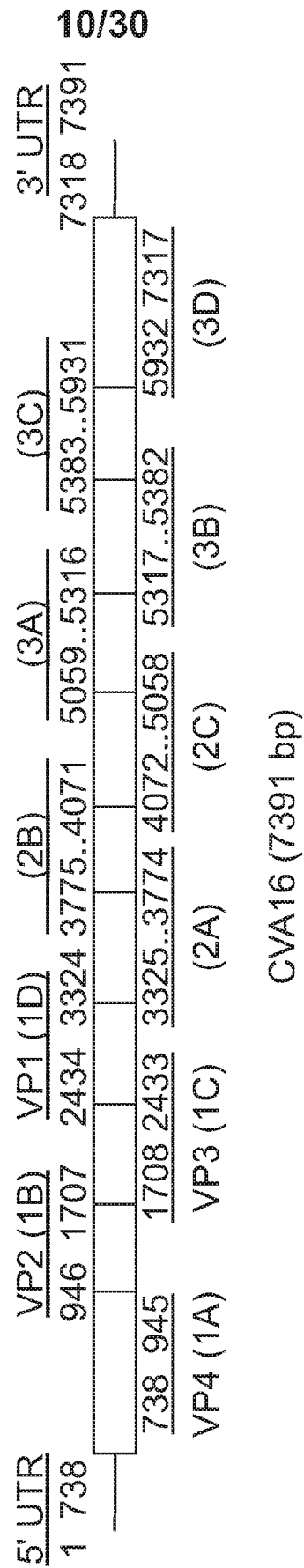
Primers	Fragment	Size
5' RACE	1-1903	1903 bp
3' RACE	5668-7391	1724 bp
SeqF4-SeqR10	1812-5851	4040 bp

Key

- [Shaded box] = CVA16 Sequence
- [Right arrow] = Forward Primers, 1-12
- [Left arrow] = Reverse Primers, 1-12
- [Double arrow] = RACE Primers
- [Vertical line] = Sequence broken into 1 kb fragments

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FIG. 8



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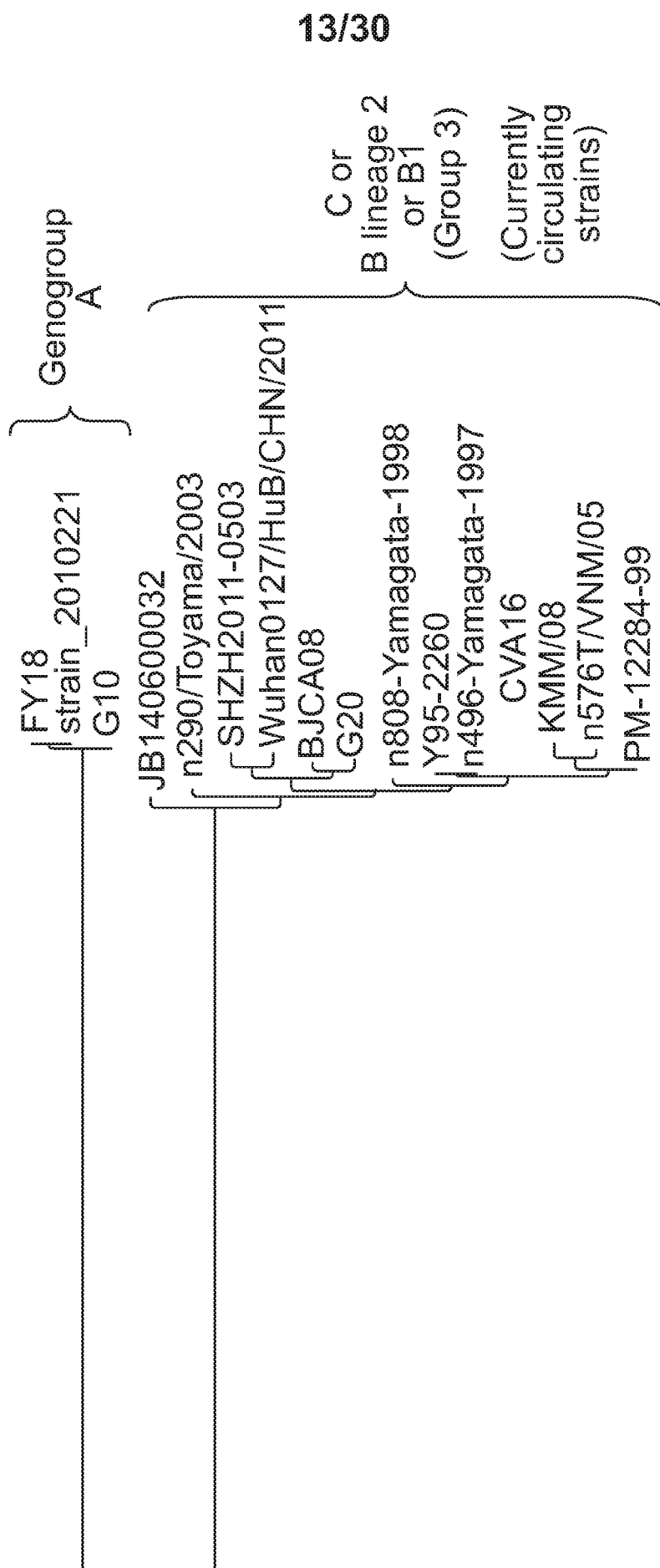
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SEQ ID NO: 26	CF361090 F	GDPIADMIDQTVNNQVNRSLTALQVLP	TAANTEASSHRLGTGVVPALQAAETGASSNASD	
SEQ ID NO: 27	Y-2222-05	GDPIADMIDQTVNNQVNRSLTALQVLP	TAANTEASSHRLGTGVVPALQAAETGASSNASD	
SEQ ID NO: 28	CVA16/P-0	GDPIADMIDQTVNNQVNRSLTALQVLP	TAANTEASSHRLGTGVVPALQAAETGASSNASD	
SEQ ID NO: 29	ESP08/5468	GDPIADMIDQTVNNQVNRSLTALQVLP	TAANTEASSHRLGTGVVPALQAAETGASSNASD	
SEQ ID NO: 30	C38CMR/09	GDPIADMIDQTVNNQVNRSLTALQVLP	TAANTEASSHRLGTGVVPALQAAETGASSNASD	
SEQ ID NO: 31	Y-2286-11	GDPIADMIDQTVNNQVNRSLTALQVLP	TAANTEASSHRLGTGVVPALQAAETGASSNASD	
SEQ ID NO: 32	Y-2077-09	GDPIADMIDQTVNNQVNRSLTALQVLP	TAANTEASSHRLGTGVVPALQAAETGASSNASD	
SEQ ID NO: 33	Kor08	GDPIADMIDQTVNNQVNRSLTALQVLP	TAANTEASSHRLGTGVVPALQAAETGASSNASD	
SEQ ID NO: 34	Y-737-98	GDPIADMIDQTVNNQVNRSLTALQVLP	TAANTEASSHRLGTGVVPALQAAETGASSNASD	
SEQ ID NO: 35	TOY/419/06	GDPIADMIDQTVNNQVNRSLTALQVLP	TAANTEASSHRLGTGVVPALQAAETGASSNASD	
SEQ ID NO: 36	CVA16/P-3	GDPIADMIDQTVNNQVNRSLTALQVLP	TAANTEASSHRLGTGVVPALQAAETGASSNASD	
SEQ ID NO: 37	HN1726/CHN	GDPIADMIDQTVNNQVNRSLTALQVLP	TAANTEASSHRLGTGVVPALQAAETGASSNASD	
SEQ ID NO: 38	Y-1931-10	GDPIADMIDQTVNNQVNRSLTALQVLP	TAANTEASSHRLGTGVVPALQAAETGASSNASD	
SEQ ID NO: 39	Y-721-98	GDPIADMIDQTVNNQVNRSLTALQVLP	TAANTEASSHRLGTGVVPALQAAETGASSNASD	
SEQ ID NO: 40	Y-494-97	GDPIADMIDQTVNNQVNRSLTALQVLP	TAANTEASSHRLGTGVVPALQAAETGASSNASD	
SEQ ID NO: 41	Y-1160-10	GDPIADMIDQTVNNQVNRSLTALQVLP	TAANTEASSHRLGTGVVPALQAAETGASSNASD	
SEQ ID NO: 42	VNM/576T/0	GDPIADMIDQTVNNQVNRSLTALQVLP	TAANTEASSHRLGTGVVPALQAAETGASSNASD	
SEQ ID NO: 43	FLA6916/09	GDPIADMIDQTVNNQVNRSLTALQVLP	TAANTEASSHRLGTGVVPALQAAETGASSNASD	
SEQ ID NO: 25	N-450B/Ind	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	120
SEQ ID NO: 26	CF361090_F	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	
SEQ ID NO: 27	Y-2222-05	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	
SEQ ID NO: 28	CVA16/P-0	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	
SEQ ID NO: 29	ESP08/5468	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	
SEQ ID NO: 30	C38CMR/09	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	
SEQ ID NO: 31	Y-2286-11	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	
SEQ ID NO: 32	Y-2077-09	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	
SEQ ID NO: 33	Kor08	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	
SEQ ID NO: 34	Y-737-98	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	
SEQ ID NO: 35	TOY/419/06	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	
SEQ ID NO: 36	CVA16/P-3	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	
SEQ ID NO: 37	HN1726/CHN	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	
SEQ ID NO: 38	Y-1931-10	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	
SEQ ID NO: 39	Y-721-98	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	
SEQ ID NO: 40	Y-494-97	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	
SEQ ID NO: 41	Y-1160-10	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	
SEQ ID NO: 42	VNM/576T/0	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	
SEQ ID NO: 43	FLA6916/09	KNLIETRCVLNHHSTQETAIGNFFSRAGLVS	IITMPTTGTQNTDGYVNWIDLMGYAQLR	
SEQ ID NO: 25	N-450B/Ind	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	180
SEQ ID NO: 26	CF361090 F	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	
SEQ ID NO: 27	Y-2222-05	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	
SEQ ID NO: 28	CVA16/P-0	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	
SEQ ID NO: 29	ESP08/5468	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	
SEQ ID NO: 30	C38CMR/09	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	
SEQ ID NO: 31	Y-2286-11	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	
SEQ ID NO: 32	Y-2077-09	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	
SEQ ID NO: 33	Kor08	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	
SEQ ID NO: 34	Y-737-98	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	
SEQ ID NO: 35	TOY/419/06	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	
SEQ ID NO: 36	CVA16/P-3	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	
SEQ ID NO: 37	HN1726/CHN	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	
SEQ ID NO: 38	Y-1931-10	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	
SEQ ID NO: 39	Y-721-98	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	
SEQ ID NO: 40	Y-494-97	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	
SEQ ID NO: 41	Y-1160-10	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	
SEQ ID NO: 42	VNM/576T/0	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	
SEQ ID NO: 43	FLA6916/09	RKCELFYMRFDAEFTFVAKPNGELVPOLLQ	YMYVPPGAPKPTRSDSFAWQTATNPSVF	

FIG. 10

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SEQ ID NO: 25	N-450B/Ind 181	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGTa 240
SEQ ID NO: 26	CF361090_F	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGTa
SEQ ID NO: 27	Y-2222-05	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGT
SEQ ID NO: 28	CVA16/P-0	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGT
SEQ ID NO: 29	ESP08/5468	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGT
SEQ ID NO: 30	C38CMR/09	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGT
SEQ ID NO: 31	Y-2286-11	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGT
SEQ ID NO: 32	Y-2077-09	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGT
SEQ ID NO: 33	Kor08	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGT
SEQ ID NO: 34	Y-737-98	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGT
SEQ ID NO: 35	TOY/419/06	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGT
SEQ ID NO: 36	CVA16/P-3	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGT
SEQ ID NO: 37	HN1726/CHN	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGT
SEQ ID NO: 38	Y-1931-10	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGT
SEQ ID NO: 39	Y-721-98	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGT
SEQ ID NO: 40	Y-494-97	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGT
SEQ ID NO: 41	Y-1160-10	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGT
SEQ ID NO: 42	VNM/576T/0	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGT
SEQ ID NO: 43	FLA6916/09	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSVRTVGT
SEQ ID NO: 25	N-450B/Ind 241	EKSPHSITLRVYMRKIHVRAWI----- 297
SEQ ID NO: 26	CF361090_F	EKSPHSITLRVYMRKIHVRAWIPRPLRNQPYLFKTNPNYKGNDIKCTSTS RDKITTL
SEQ ID NO: 27	Y-2222-05	EKSPHSITLRVYMRKIHVRAWIPRPLRNQPYLFKTNPNYKGNDIKCTSTS RDKITTL
SEQ ID NO: 28	CVA16/P-0	EKSPHSITLRVYMRKIHVRAWIPRPLRNQPYLFKTNPNYKGNDIKCTSTS RDKITTL
SEQ ID NO: 29	ESP08/5468	EKSPHSITLRVYMRKIHVRAWIPRPLRNQPYLFKTNP-----
SEQ ID NO: 30	C38CMR/09	EKSPHSITLRVYMRKIHVRAWIPRPLRNQPYLFKTNPNYKGND-----
SEQ ID NO: 31	Y-2286-11	EKSPHSITLRVYMRKIHVRAWIPRPLRNQPYLFKTNPNYKGNDIKCTSTS RDKITTL
SEQ ID NO: 32	Y-2077-09	EKSPHSITLRVYMRKIHVRAWIPRPLRNQPYLFKTNPNYKGNDIKCTSTS RDKITTL
SEQ ID NO: 33	Kor08	EKSPHSITLRVYMRKIHVRAWIPRPLRNQPYLFKTNPNYKGNDIKCTSTS RDKITTL
SEQ ID NO: 34	Y-737-98	EKSPHSITLRVYMRKIHVRAWIPRPLRNQPYLFKTNPNYKGNDIKCTSTS RDKITTL
SEQ ID NO: 35	TOY/419/06	EKSPHSITLRVYMRKIHVRAWIPRPLRNQPYLFKTNPNYKGNDIKCTSTS RDKITTL
SEQ ID NO: 36	CVA16/P-3	EKSPHSITLRVYMRKIHVRAWIPRPLRNQPYLFKTNPNYKGNDIKCTSTS RDKITTL
SEQ ID NO: 37	HN1726/CHN	EKSPHSITLRVYMRKIHVRAWIPRPLRNQPYLFKTNPNYKGNDIKCTSTS RDKITTL
SEQ ID NO: 38	Y-1931-10	EKSPHSITLRVYMRKIHVRAWIPRPLRNQPYLFKTNPNYKGNDIKCTSTS RDKITTL
SEQ ID NO: 39	Y-721-98	EKSPHSITLRVYMRKIHVRAWIPRPLRNQPYLFKTNPNYKGNDIKCTSTS RDKITTL
SEQ ID NO: 40	Y-494-97	EKSPHSITLRVYMRKIHVRAWIPRPLRNQPYLFKTNPNYKGNDIKCTSTS RDKITTL
SEQ ID NO: 41	Y-1160-10	EKSPHSITLRVYMRKIHVRAWIPRPLRNQPYLFKTNPNYKGNDIKCTSTS RDKITTL
SEQ ID NO: 42	VNM/576T/0	EKSPHSITLRVYMRKIHVRAWIPRPLRNQPYLFKTNPNYKGNDIKCTSTS RDKITTL
SEQ ID NO: 43	FLA6916/09	EKSPHSITLRVYMRKIHVRAWIPRPLRNQPYLFKTNPNYKGNDIKCTSTS RDKITTL

FIG. 10 (Cont.)



0.7

FIG. 11

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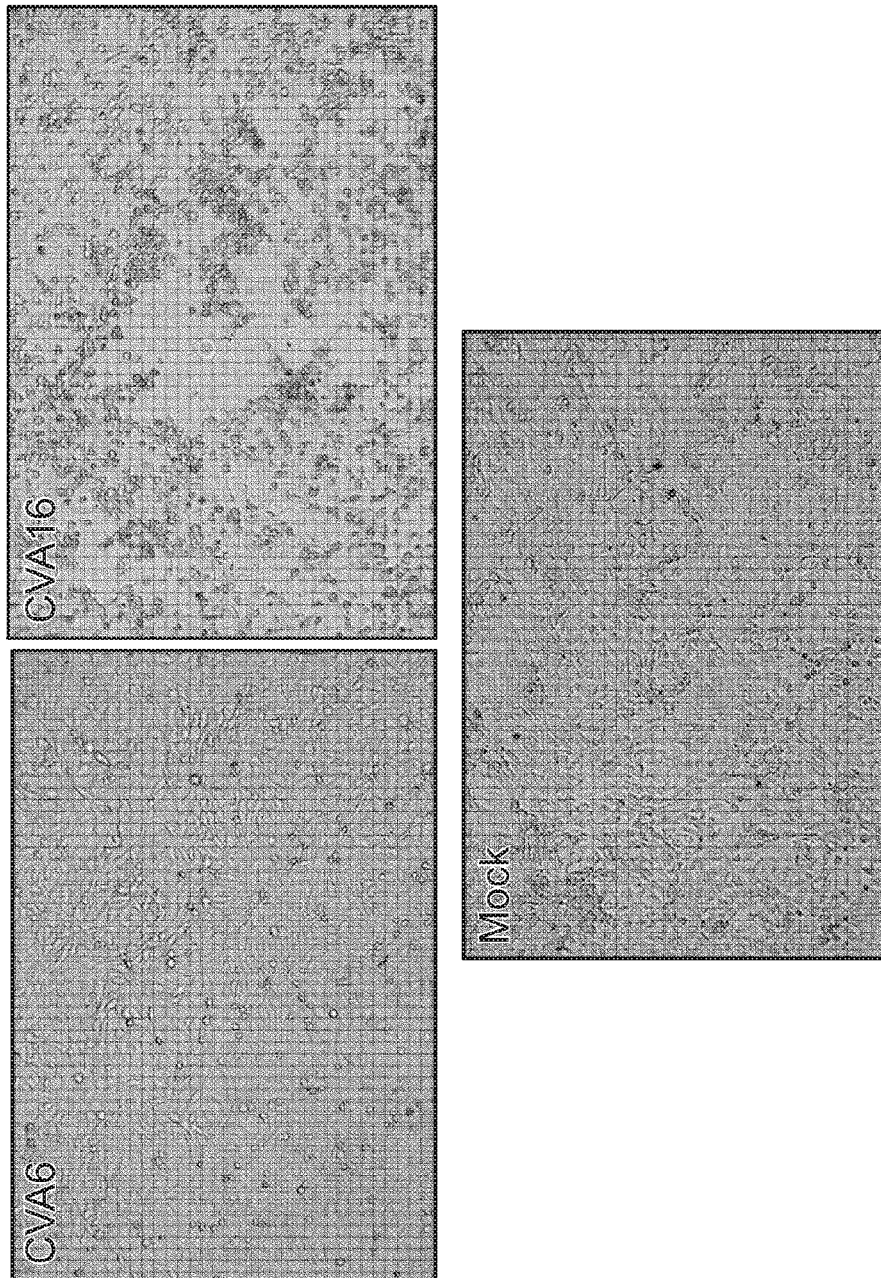


FIG. 12

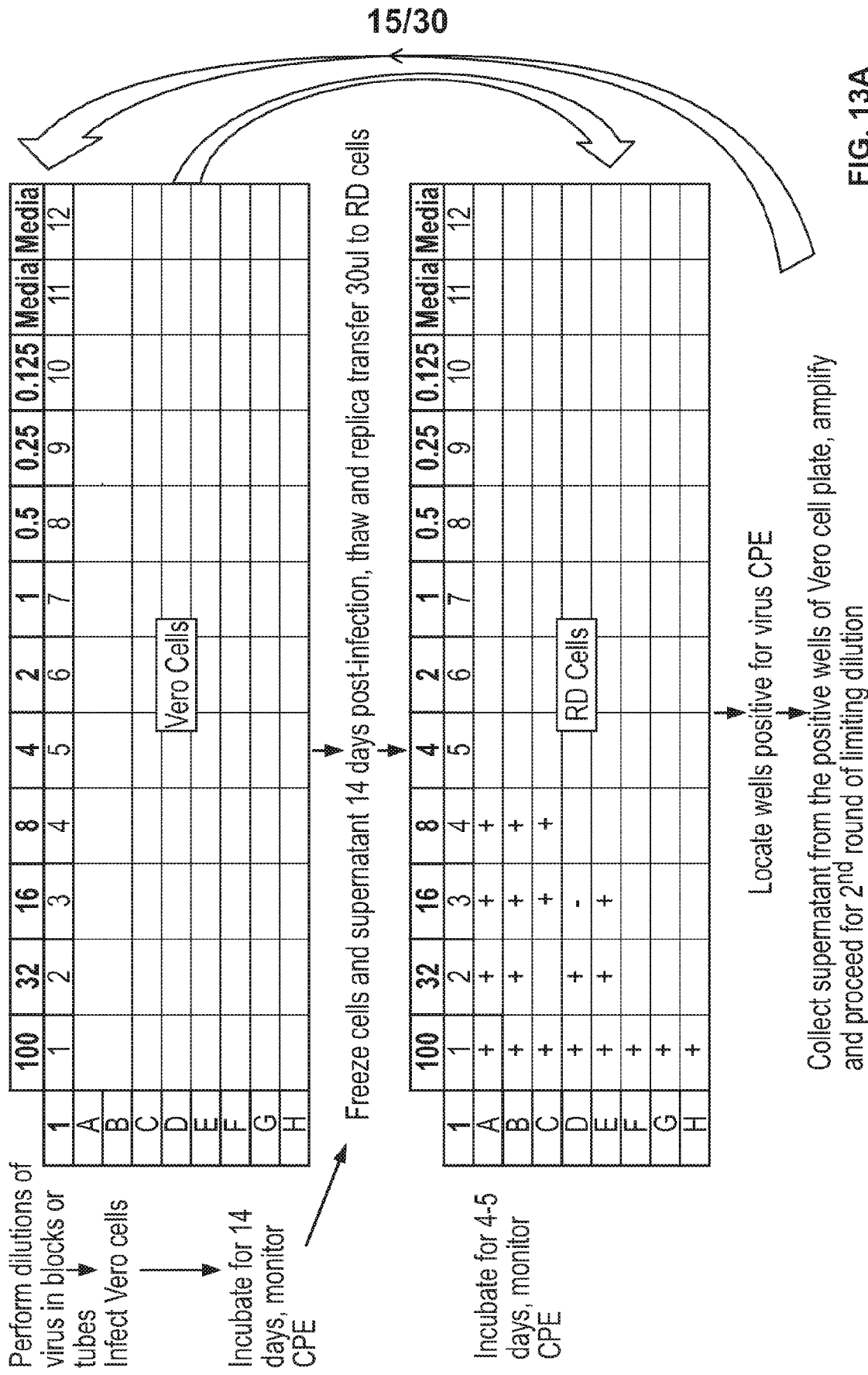


FIG. 13A

Vero	128	64	32	16	8	4	2	1	0.5	0.25	Media	Media
1	1	2	3	4	5	6	7	8	9	10	11	12
A	+	+	+	+	+	-	-	-	-	-	-	-
B	+	+	+	+	+	+	+	+	-	-	-	-
C	+	+	+	+	+	-	-	+	-	+	-	-
D	+	+	+	+	+	+	+	-	+	-	-	-
E	+	+	+	+	+	+	+	-	-	-	-	-
F	+	+	+	+	+	+	+	+	-	-	-	-
G	+	+	+	+	+	+	+	-	-	-	-	-
H	+	+	+	+	+	-	+	-	-	-	-	-

FIG. 13B

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Vero	64	32	16	8	4	2	1	0.5	0.25	0.12	0.06	Media
C10	1	2	3	4	5	6	7	8	9	10	11	12
A	-	+	+	+	+	+	+	+	-	-	-	-
B	+	+	+	+	+	+	+	+	+	+	-	-
C	+	+	+	+	+	+	+	+	+	+	-	-
D	-	+	+	+	+	+	+	+	-	-	-	-
E	+	+	+	+	+	+	+	+	+	-	-	-
F	+	+	+	+	+	+	+	+	+	-	-	-
G	+	+	+	+	+	+	+	+	+	+	-	-
H	+	+	+	+	+	+	-	+	-	-	-	-
Vero	64	32	16	8	4	2	1	0.5	0.25	0.12	0.06	Media
D9	1	2	3	4	5	6	7	8	9	10	11	12
A	-	+	+	+	+	-	+	-	-	-	-	-
B	+	+	+	+	+	+	+	+	+	-	-	-
C	+	+	+	+	+	+	+	+	-	-	-	-
D	+	+	+	+	+	+	-	+	-	-	+	-
E	+	+	+	+	+	+	+	-	-	-	-	-
F	+	+	+	+	+	+	+	-	-	-	-	-
G	+	+	+	+	+	+	-	+	-	-	-	-
H	+	+	+	+	+	+	+	-	-	-	-	-
Vero	64	32	16	8	4	2	1	0.5	0.25	0.12	0.06	Media
F8	1	2	3	4	5	6	7	8	9	10	11	12
A	+	+	+	+	+	-	+	-	+	-	-	-
B	+	+	+	+	+	-	-	-	-	-	-	-
C	+	+	+	+	+	+	+	-	+	-	-	-
D	+	+	+	+	+	+	+	-	+	-	-	-
E	+	+	+	+	+	+	+	-	-	-	-	-
F	+	+	+	+	+	+	+	+	-	+	-	-
G	+	+	+	+	+	+	-	+	-	-	-	-
H	+	+	-	+	+	-	-	+	-	-	-	-

FIG. 13C

Calculated Titer TCID50/ml

	10 ⁻¹	10 ⁻²	10 ⁻³	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁷	10 ⁻⁸	Media	Media	Media	Media
	1	2	3	4	5	6	7	8	9	10	11	12
A	+	+	-	-	-	-	-	-	Following 14 days of infection in Vero cells, supernatant was transferred to RD cells and CPE was recorded			
B	+	+	+	-	+	-	-	-				
C	+	+	-	-	-	-	-	-				
D	+	+	-	-	-	-	-	-				
E	X	X	X	X	X	X	X	X	X	X	X	X
F	X	X	X	X	X	X	X	X	X	X	X	X
G	X	X	X	X	X	X	X	X	X	X	X	X
H	X	X	X	X	X	X	X	X	X	X	X	X

	10 ⁻¹	10 ⁻²	10 ⁻³	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁷	10 ⁻⁸	Media	Media	Media	Media
	1	2	3	4	5	6	7	8	9	10	11	12
A	+	+	+	+	+	+	-	-				
B	+	+	+	+	+	-	-	-				
C	+	+	+	+	+	+	-	-				
D	+	+	+	+	+	+	-	-				
E	X	X	X	X	X	X	X	X	X	X	X	X
F	X	X	X	X	X	X	X	X	X	X	X	X
G	X	X	X	X	X	X	X	X	X	X	X	X
H	X	X	X	X	X	X	X	X	X	X	X	X

FIG. 14

1.77x10⁷

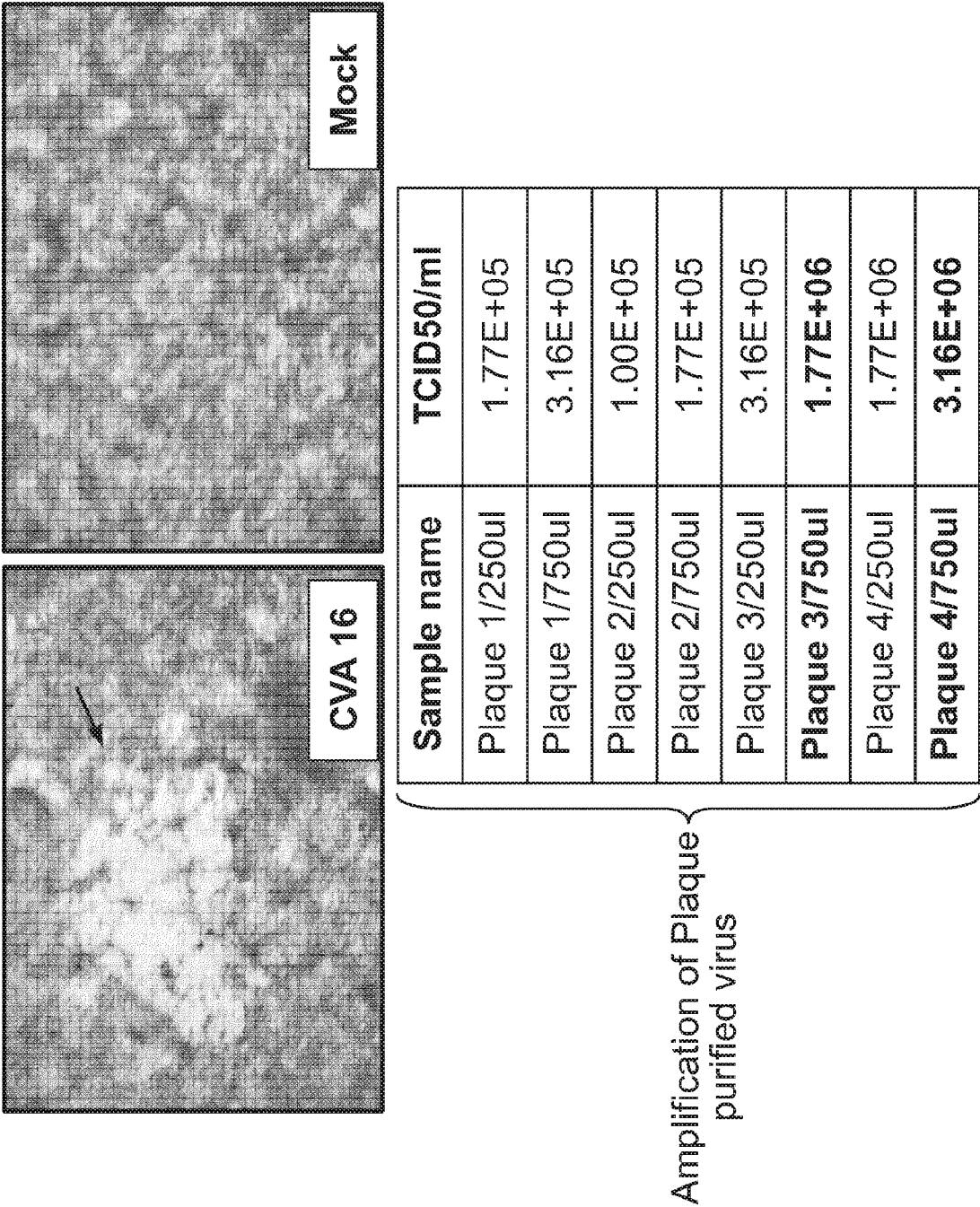


FIG. 15A

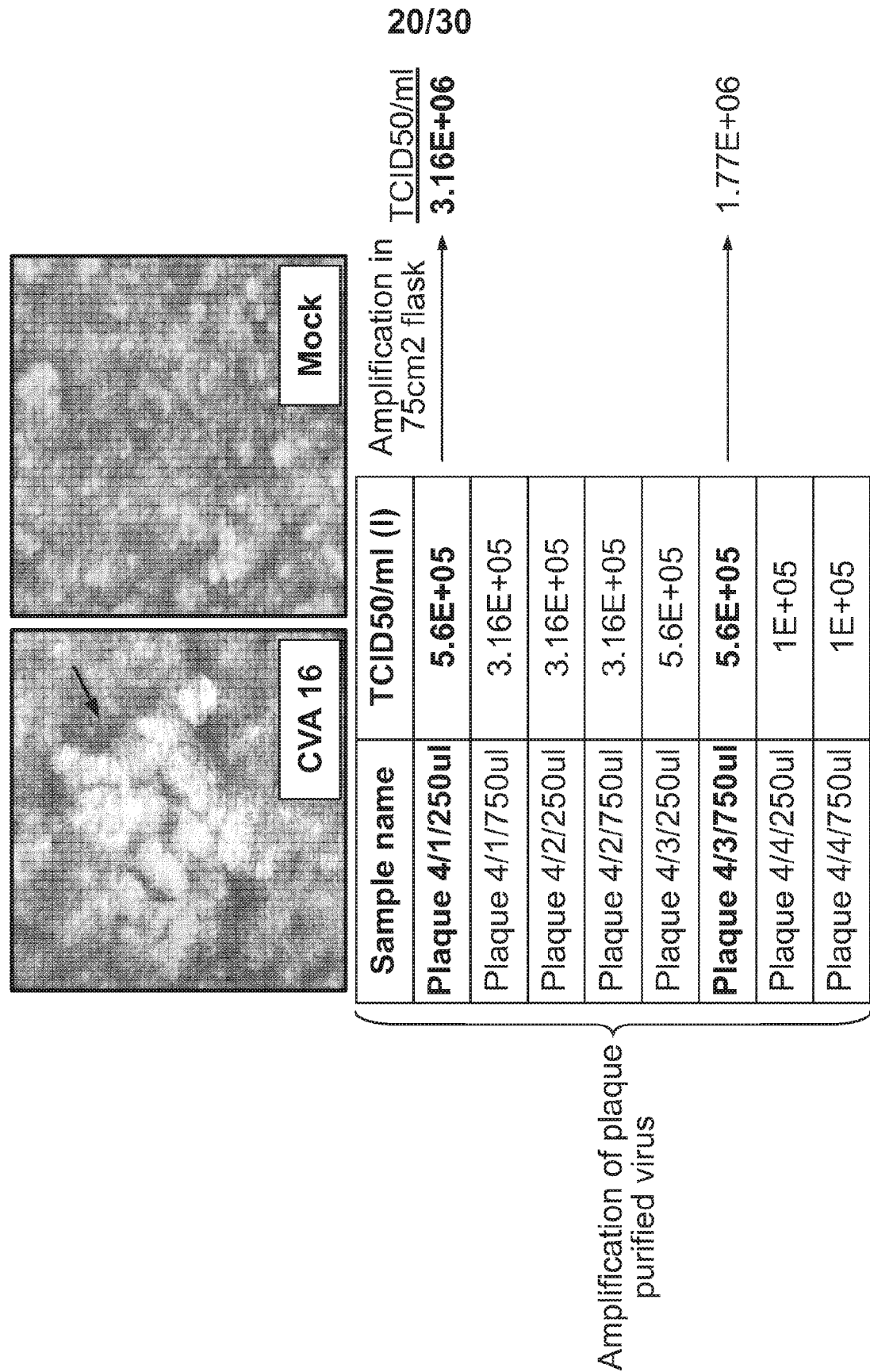


FIG. 15B

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SEQ ID NO: 36	CVA16/P-3	GDPIDMIDQTVNNQVNRSLTALQVLPTAANTEASSHRLGTGVVPALQAAETGASSNASD
SEQ ID NO: 44	CVA16/1-250-Middle	GDPIDMIDQTVNNQVNRSLTALQVLPTAANTEASSHRLGTGVVPALQAAETGASSNASD
SEQ ID NO: 28	CVA16/P-0	GDPIDMIDQTVNNQVNRSLTALQVLPTAANTEASSHRLGTGVVPALQAAETGASSNASD

SEQ ID NO: 36	CVA16/P-3	KNLIETRCVLNHHSTQETAIGNFFSRAGLVSIITMPTTGTONTDGYVNWIDIDLMGYAQLR
SEQ ID NO: 44	CVA16/1-250-Middle	KNLIETRCVLNHHSTQETAIGNFFSRAGLVSIITMPTTGTONTDGYVNWIDIDLMGYAQLR
SEQ ID NO: 28	CVA16/P-0	KNLIETRCVLNHHSTQETAIGNFFSRAGLVSIITMPTTGTONTDGYVNWIDIDLMGYAQLR

SEQ ID NO: 36	CVA16/P-3	RKCELFYMRFDAEFTFVAKPNGELVPQLLQYMYVPPGAPKPTS RDSFAWQTATNPSVF
SEQ ID NO: 44	CVA16/1-250-Middle	RKCELFYMRFDAEFTFVAKPNGELVPQLLQYMYVPPGAPKPTS RDSFAWQTATNPSVF
SEQ ID NO: 28	CVA16/P-0	RKCELFYMRFDAEFTFVAKPNGLVPQLLQYMYVPPGAPKPTS RDSFAWQTATNPSVF

SEQ ID NO: 36	CVA16/P-3	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSIRTVGT
SEQ ID NO: 44	CVA16/1-250-Middle	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSIRTVGT
SEQ ID NO: 28	CVA16/P-0	VKMTDPPAQVSPFMSPASAYQWFYDGYPTFGEHLQANDLDYGQCPNNMMGTFSIRTVGT

SEQ ID NO: 36	CVA16/P-3	EKSPHSITLRVYMRIKHVRAWIPRPLRNQPYLFKTNPNYKNDIKCTSTSRDKITTL
SEQ ID NO: 44	CVA16/1-250-Middle	EKSPHSITLRVYMRIKHVRAWIPRPLRNQPYLFKTNPNYKNDIKCTSTSRDKITTL
SEQ ID NO: 28	CVA16/P-0	EKSPHSITLRVYMRIKHVRAWIPRPLRNQPYLFKTNPNYKNDIKCTSTSRDKITTL

FIG. 16

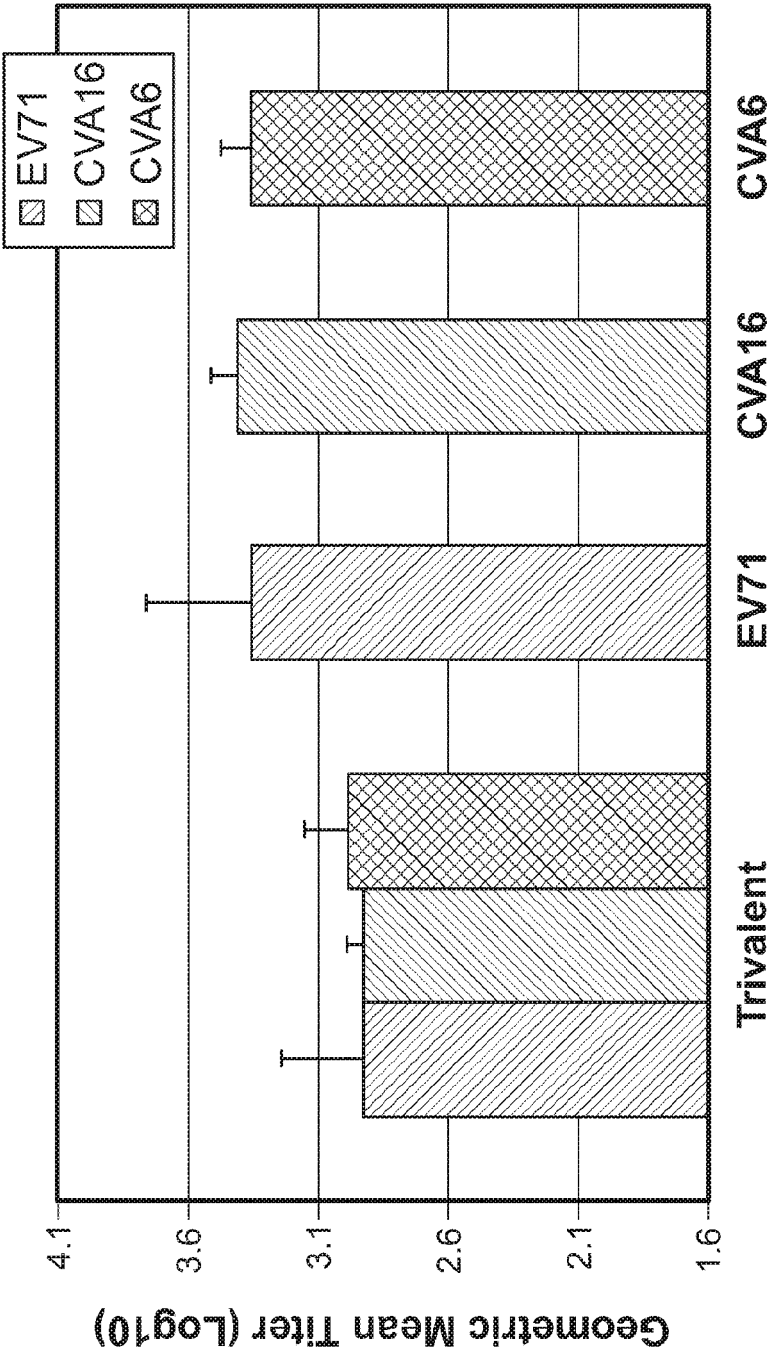


FIG. 17

Vaccine	Challenge
Trivalent	EV71
CVA6	EV71
CVA16	EV71
EV71	EV71
Alum Only	EV71
Trivalent	CVA16
CVA6	CVA16
CVA16	CVA16
Alum Only	CVA16

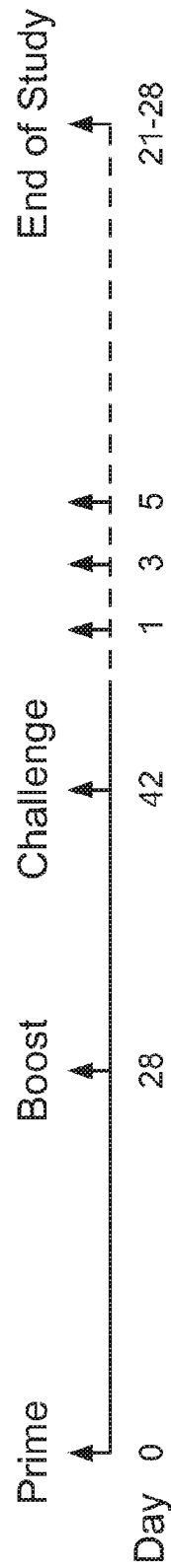


FIG. 18

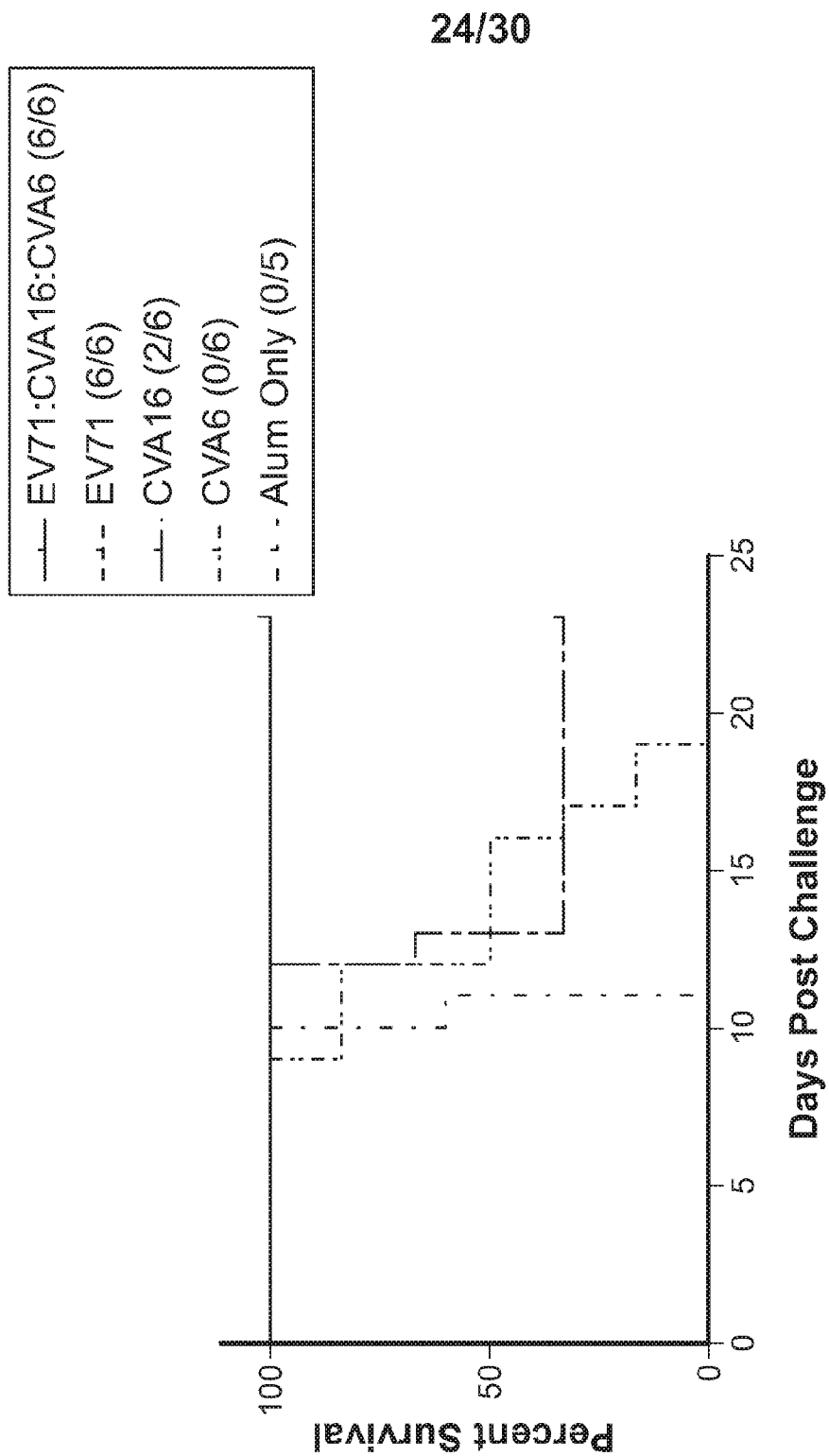


FIG. 19

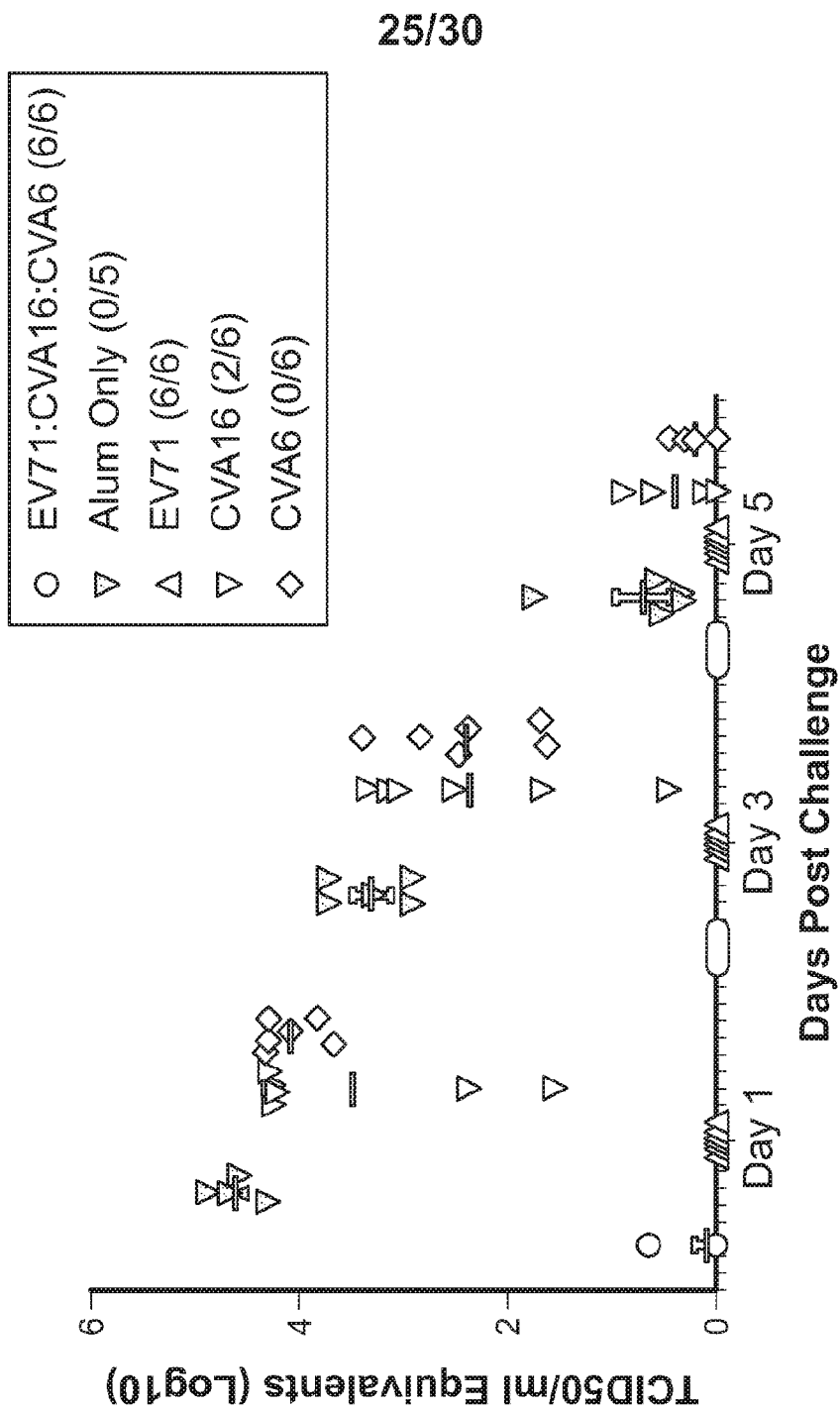


FIG. 20

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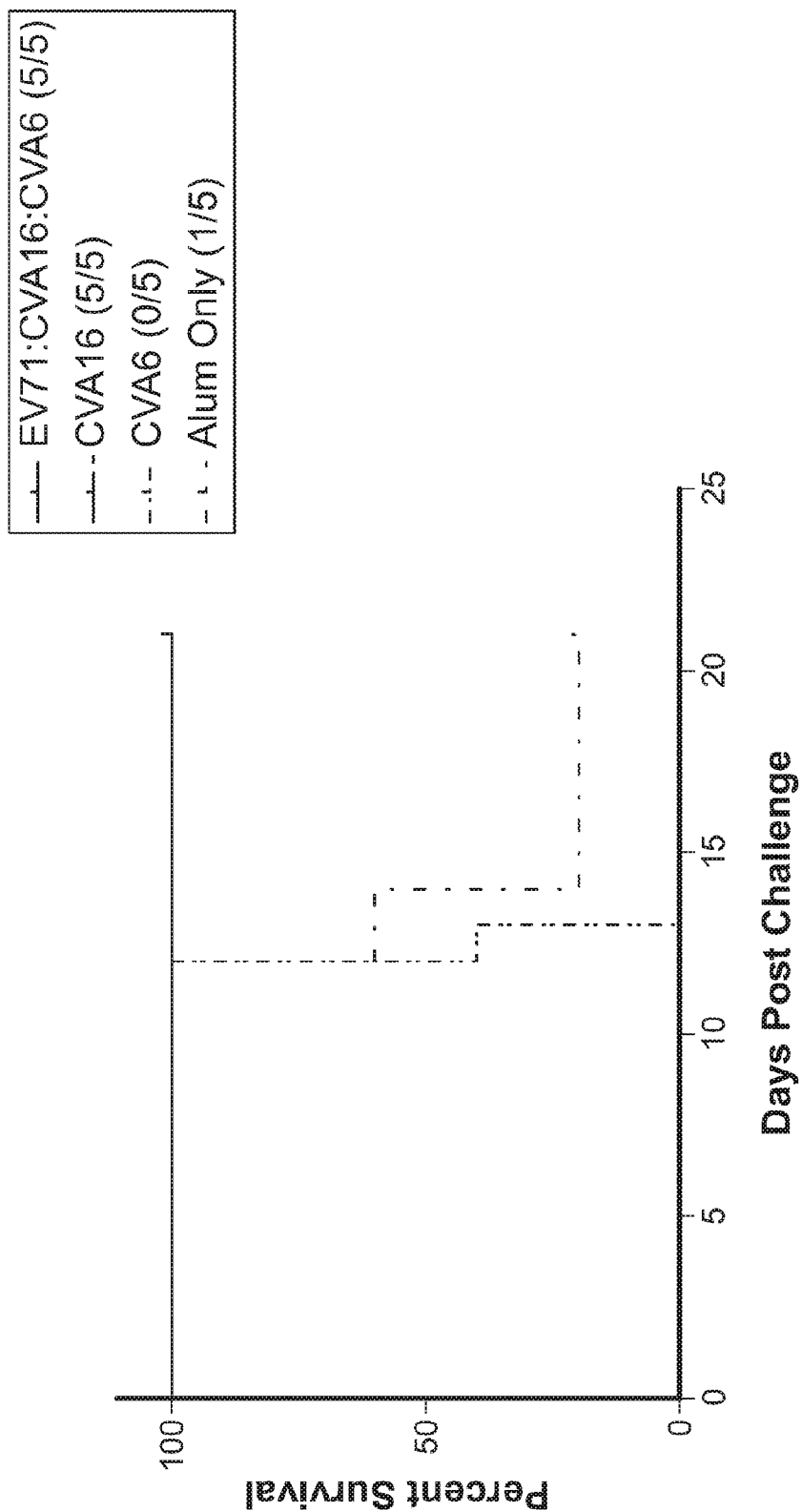


FIG. 21

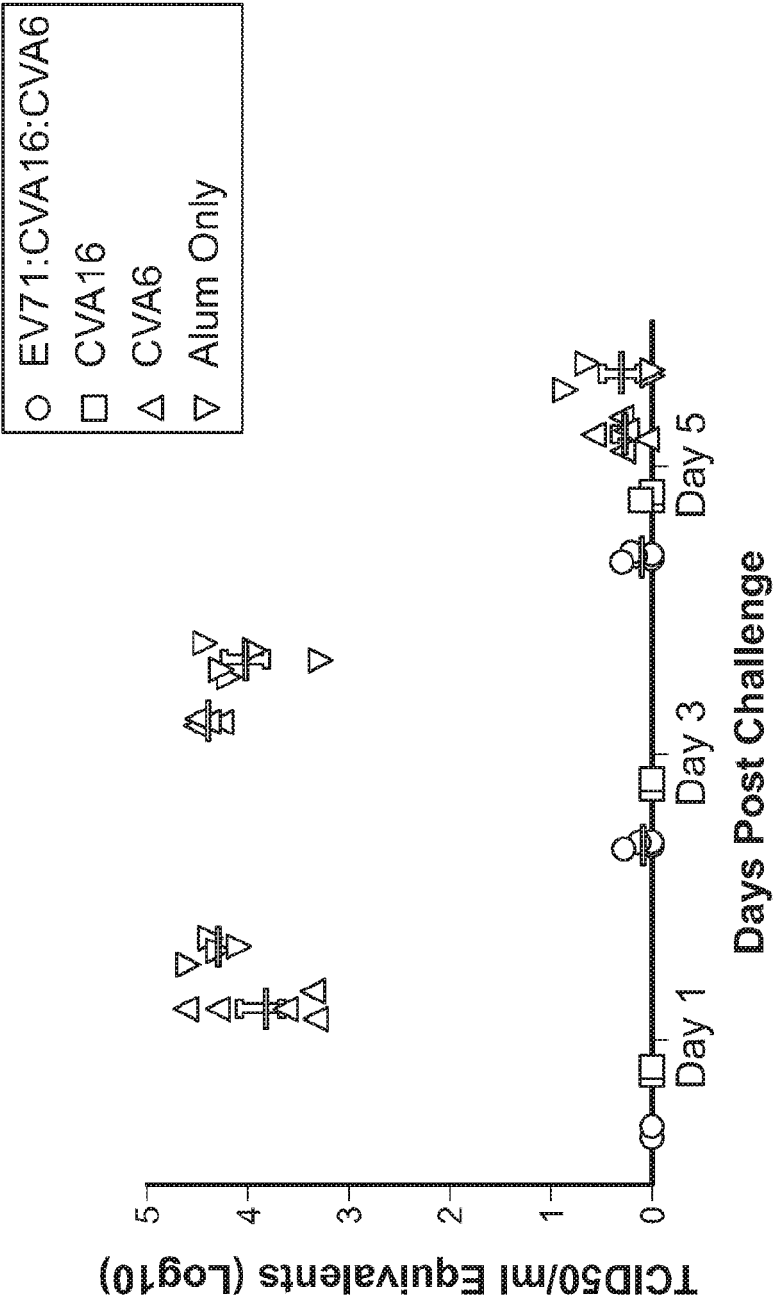


FIG. 22

Serum/Antibodies	Challenge
Trivalent	CVA6
CVA6	CVA6
Normal Mouse	CVA6

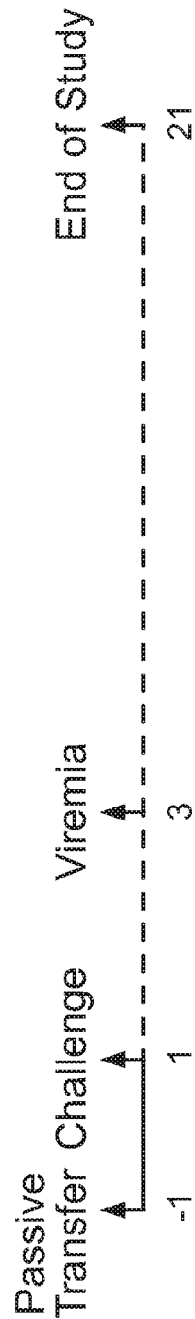


FIG. 23

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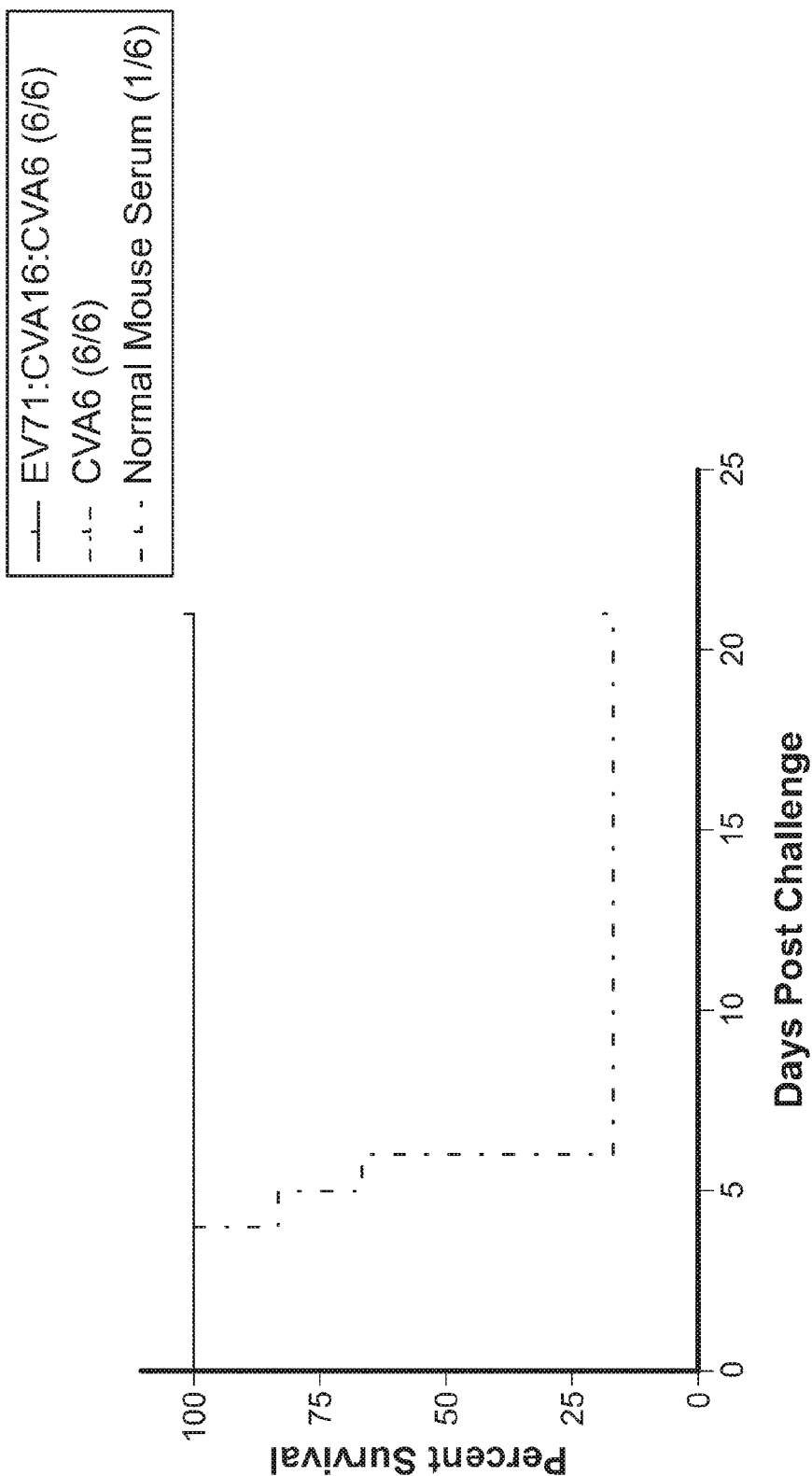


FIG. 24

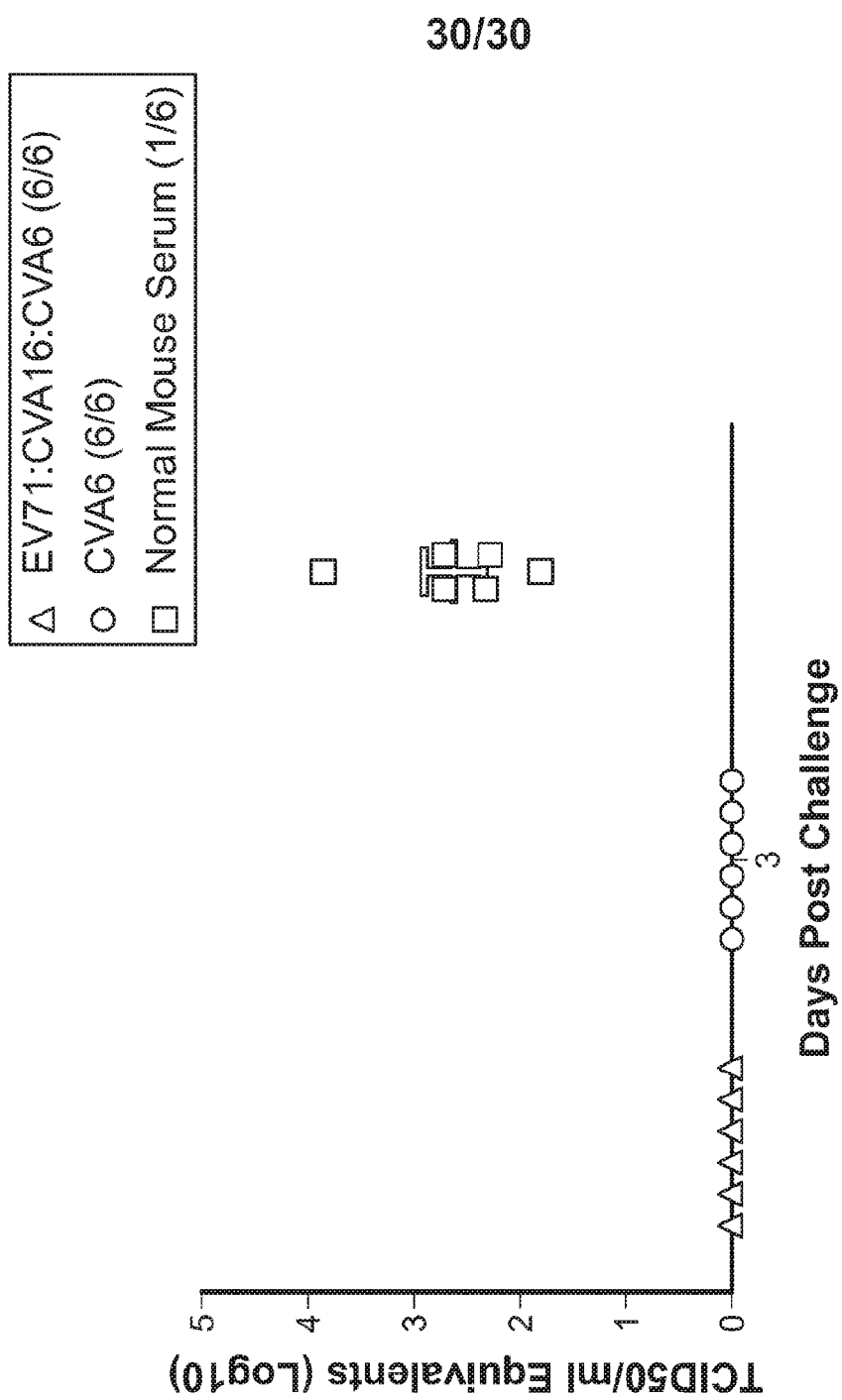


FIG. 25