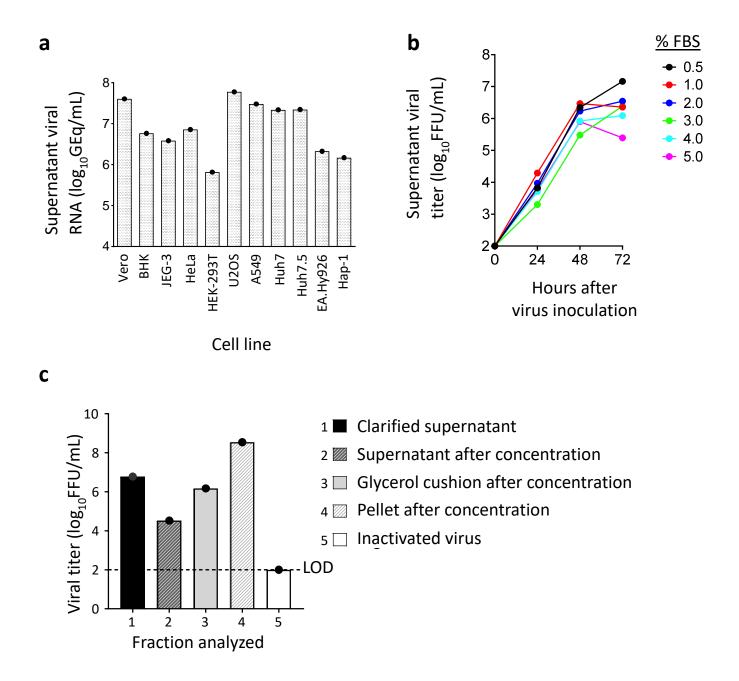
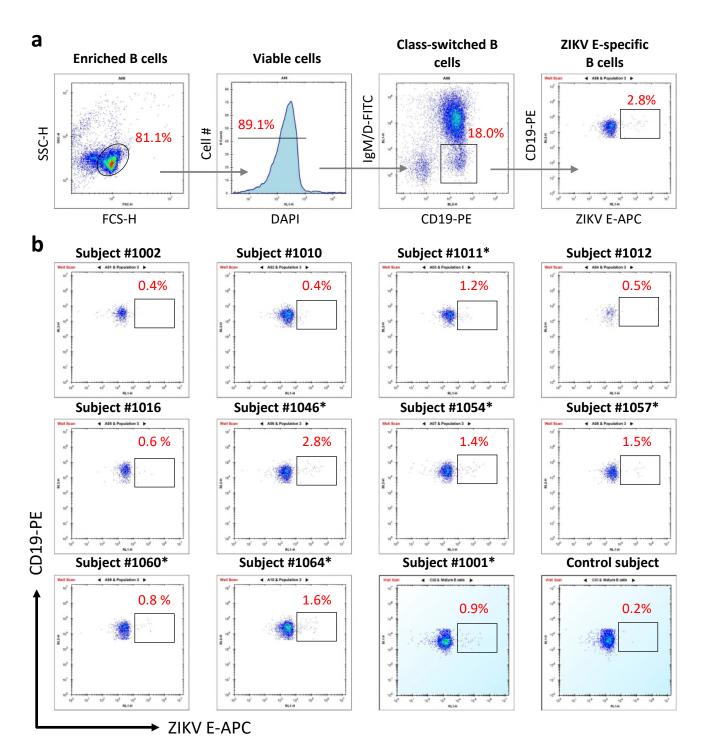
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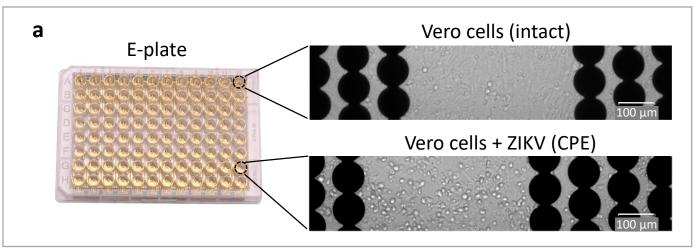
Supplementary Figure 1. ZIKV stock production.

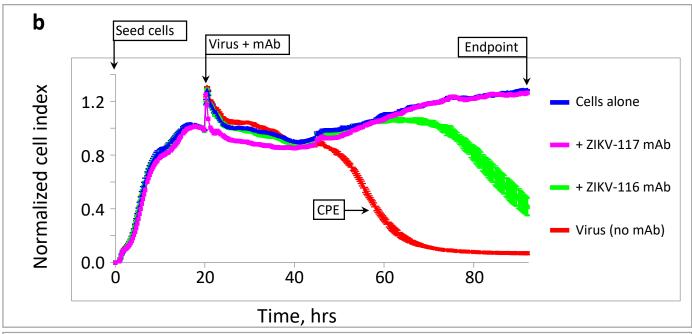
(a) Propagation of ZIKV Dakar MA was assessed in a panel of immortalized cell lines. Viral growth was assessed by qRT-PCR from clarified cell culture supernatants harvested 72 hrs after virus inoculation. Data represented a single measurement from one experiment. (b) Propagation of ZIKV Dakar MA in Vero cells grown in roller bottles was determined at various FBS concentrations. Viral growth was measured by FFA of culture supernatants. Data represented mean ± SD values of technical duplicates from a single experiment. (c) Concentration and inactivation of ZIKV Dakar MA was assessed in indicated fractions obtained after ultra-centrifugation of infected Vero cell culture supernatant (72 hrs after virus inoculation), as well as following treatment with hydrogen peroxide. Viral titer was measured by FFA. LOD was 100 FFU/mL. Data represented a single measurement from one experiment.

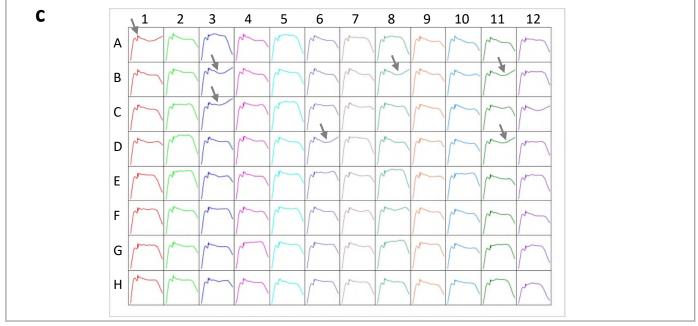


Supplementary Figure 2. Frequency of ZIKV E-reactive memory B cells identified from previously infected subjects. (a) Flow cytometric identification of target-specific B cells after labeling of magnetically enriched total B cells with phenotyping antibodies, biotinylated ZIKV E protein, and fluorochrome-conjugated streptavidin (see Methods). (b) Percent (%) of ZIKV E-reactive B cells from each subject was assessed by analytical flow cytometry using an iQue Plus Screener flow cytometer. Up to 10,000 enriched B cells were analyzed for each subject. Plots represent viable CD19⁺IgM⁻IgD⁻ population and are gated as in a. Subject with no history for ZIKV exposure served as a control for background E protein staining, and subject #1001 described previously¹ served as a positive control for E protein staining (blue background plots). Seven subjects selected for ZIKV-specific mAb discovery are indicated with "*" symbol.

Supplementary Figure 3

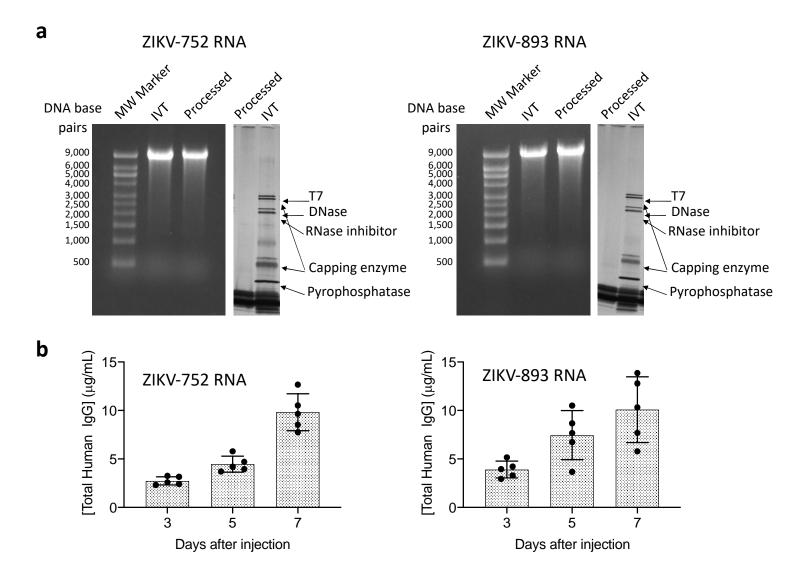






Supplementary Figure 3. Rapid RTCA screening for neutralizing activity of mAbs to identify lead candidates for *in vivo* protection studies.

(a) Enlarged brightfield image (right) of shadowed electrodes and adherent Vero cells (with or without virus to visualize CPE) from single wells of 96-well E-plates (left). Single well Vero cell images are representative of five or more images taken for each condition. (b) Representative sensograms for Vero cells that were inoculated with ZIKV (Brazil strain) in the presence of fully neutralizing ZIKV-117 (magenta) and partially neutralizing ZIKV-116 (green). mAbs ZIKV-117 and ZIKV-116 were described previously ¹. Uninfected cells (blue) and infected cells without antibody addition (red) served as controls for intact monolayer and full CPE, respectively. Data represented mean ± SD values of technical duplicates. (c) Example sensograms from one 96-well E-plate analysis showing rapid identification of mAbs that fully neutralize ZIKV (indicated with grey arrows). Neutralization was assessed for 1:25 micro-scale purified mAbs dilution (see Methods) using ZIKV Brazil strain. Plates were measured continuously for 45 hrs after applying virus and mAb mixtures to the Vero cell monolayers.



Supplementary Figure 4. Large-scale production and qualification of ZIKV-753 and ZIKV-893 RNAs.

(a) Quality and purity of large-scale produced RNA. Following large-scale *in vitro* transcription (IVT) and capping, ZIKV-752 and ZIKV-893 RNA were purified and concentrated by Capto Core chromatography and tangential flow filtration, prior to sterile-filtration and storage at -80°C. ZIKV-752 and -893 RNA were analyzed by denaturing gel electrophoresis as well as silver-stain SDS-PAGE to assess quality and purity of post-processed RNA. The experiment was repeated independently at least three times and for several post-processed RNA preparations with similar results in addition to ZIKV-752 and -893 analysis shown here (b) Human IgG concentration in mouse plasma after RNA delivery. To verify function, processed ZIKV-752 and -893 were formulated with NLC, and 40 µg of formulation was injected intramuscularly into C57BL/6 mice (n=5 mice per group). Blood was collected on days 3, 5, and 7, and concentrations of total human IgG protein were determined in serum by ELISA using recombinant ZIKV-752 and -893 mAbs to generate a standard curve. Dots show measurements from individual mice and mean ± SD values are shown.

Supplementary Tables

Supplementary Table 1. Research subject demographics and ZIKV exposure history.

Subject ID	Gender	Age	Ethnicity	ZIKV strain lineage*	Year infected	Country in which infection occurred	PBMCs collection timepoint
1001**	Male	41	Hispanic or Latino	Asian	2015	Brazil	7 months after infection
1011**	Female	25	Not Hispanic or Latino	Asian	2016	Haiti	March 2016
1046**	Female	58	Hispanic or Latino	Asian	2016	Dominican Republic	>90 days after infection
1054**	Female	62	Not Hispanic or Latino	Asian	2016	Puerto Rico	>90 days after infection
1057**	Male	40	Not Hispanic or Latino	Asian	2016	Nicaragua	5 weeks and six months post 1st symptom
1060**	Female	35	Not Hispanic or Latino	Asian	2016	Guatemala	>90 days after infection
1064**	Male	19	Not Hispanic or Latino	Asian	2016	Guatemala	>90 days after infection
1002	Female	42	Not Hispanic or Latino	Asian	2016	Mexico	>90 days after infection
1010	Female	25	Not Hispanic or Latino	Asian	2016	Haiti	>90 days after infection
1012	Female	19	Not Hispanic or Latino	Asian	2016	Haiti	>90 days after infection
1016	Female	21	Not Hispanic or Latino	Asian	2016	Haiti	>90 days after infection
269***	Male	58	Not Hispanic or Latino	NA	NA	NA	NA

^{* -} The subjects likely had been infected with a strain of Asian lineage of ZIKV, since they contracted the disease during the recent outbreak in South America. Flavivirus immune status at the time of ZIKV infection for these subjects is unknown. ** - subjects selected for ZIKV-specific mAb discovery. *** - uninfected control subject. NA – not applicable.

								Microscali	e-purified mAb anal	ysis to identify cand	dates for <i>in vivo</i> st	udy							Analysis of midiso	cale-purified mAb or in vivo studies
Clone ID	*Sorting method to Isolate mAb	**Purified mA b yield (µg)	***ELISA binding O.D. 450 nm to ZIKV E2 assessed for 1:10 CHO culture supernatant dilution	***ELISA binding O.D.450 nm to ZIKV E2 assessed for 1:100 purified mAb dilution	****Antigenic site determined by competition binding with reference mAb	ZIKV Brazil neutralization assessed by RTCA for 1:10 CHO culture supernatant dilution (+/-)	ZIKV Brazil neutralization assessed by RTCA for 1:25 purified mAb dilution (+/-)	ZIKV Dakar neutralization assessed by FRNT for 1:16 purified mAb dilution (+/-)	ZIKV Brazil neutralization assessed by FRNT for 1:16 purified mAb dilution (+/-)	ZIKV Dakar neutralization reassessed by RTCA for neutralizing mAbs	ZIKV Brazil neutralization reassessed by RTCA for neutralizing mAbs	ZIKV Dakar ICS0 (ng/mL) assessed by RTCA for purified mAbs (ng/mL)	ZIKV Brazill ICSO (ng/mL) assessed by RTCA for purified mAbs	ZIKV Dakar ICSO (ng/mL) assessed by FRNT for purified mAbs	ZIKV Brazil IC50 (ng/mL) assessed by FRNT for purified mAbs	***** ADCP assessed for purified mAbs (Z-score)	*****ADNP assessed for purified mAbs (Z-score)	*****ADCD assessed for purified mAbs (Z-score)	ZIKV Dakar IC50 (ng/ml) assessed by RTCA for purified mAbs	ZIKV Brazil ICSO (ng/ml) assessed by RTCA for purified mAbs
2KV-117 contol 2KV-403	ND ND	232 21	3.4	4.2	ND ND	+	*	+	+	+ ND	+ NO	42 NO	7 NO	34 NO	34 NO	2.3 0.5	0.6	2.6 -0.2	ND ND	ND ND
2KV-406 2KV-407	ND ND	41			ND ND				- :	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0.6 0.6	0.4	-0.2	NO NO	ND ND
2KV-409 2KV-409	ND ND	40.5 179			ND ND				-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.5	0.4	-0.2	ND ND	ND ND
2KV-411 2KV-412	ND ND	46 125	-	-	ND ND	-	-	-	-	ND ND	ND ND	ND ND	ND ND	ND ND	NO NO	-0.8 -0.6	-0.2	-0.2	NO NO	ND ND
2KV-413 2KV-414 2KV-415	ND ND	25 17			ND ND					ND ND	ND ND	ND ND	ND ND	8,582 ND	3,692 NO	-0.2 0.4 0.6	-0.4 -0.4 -0.2	-0.3 -0.2	NO NO	ND ND
2KV-416 2KV-417	ND ND	40.5			ND ND	÷	- :	i		ND ND	NO NO	ND ND	NO NO	ND ND	NO NO	0.0		-0.2 -0.2	ND NO	ND ND
2KV-418 2KV-419	ND ND	25			ND ND					ND ND	ND ND	NO NO	NO NO	ND ND	ND ND	-0.5 -0.7 0.6	-0.1	-0.2 -0.2	ND ND	ND ND
2KV-420 2KV-421	ND ND	40.5 40.5 150			ND ND					ND ND	NO NO	ND ND	NO NO	ND ND	NO NO	-0.2 0.2	-0.5	-0.2	NO NO	NO NO
21KV-422 21KV-423	ND ND	195	3.0	4.2	ND 116					ND +	NO +	ND ND	NO 55	ND ND	ND 1,212	-0.2	0.2	-0.2	ND >3,000	ND 305
21KV-424 21KV-425	ND ND	46			ND ND					ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0.1	0.0	-0.2	NO NO	ND ND
2KV-426 2KV-427	ND ND	30 40.5		-	ND ND			- :	-	ND ND	ND ND	NO NO	NO NO	ND ND	NO NO	0.0	0.1	-0.2	ND ND	ND ND
2KV-428 2KV-429	ND ND	5		-	ND ND	-	-	-		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0.2 -0.4	-0.4	-0.2	ND ND	ND ND
2KV-430 2KV-431	ND Sub-panel 1	102			ND ND					ND ND	ND ND	ND ND	NO NO	ND ND	NO NO	-0.7 0.4	-0.2	-0.2	NO NO	ND ND
28V-432 28V-433 28V-434	ND ND	40.5 5	- :	- :	ND ND ND		- 1			ND ND	ND ND	NO NO	ND ND 447	ND ND	NO NO	0.9	0.0	-0.2 -0.2	NO NO	ND ND
28V-436 28V-436 28V-436	ND ND	92 32	3.7	4.2	ND ND FL	-		-	- :	ND ND	ND pri	411 NO NO	447 NO NO	730 ND ND	715 ND ND	0.2 -0.1 3.4		-0.2 -0.2 5.2	112 NO	308 NO
2KV-43F 2KV-43F 2KV-43E	ND Sub-panel 2 ND	209	3./	4.2	PL ND ND					ND ND	NO NO	NO NO	ND ND	ND ND	ND ND	-0.7	0.3 -0.3	-0.2 -0.2	NO NO	ND ND
2KV-429 2KV-440	ND Sub-panel 1 ND	22 46	3.1	4.1	Unknown					ND ND	ND ND	NO NO	NO NO	ND ND	NO NO	0.6	0.1	-0.2 -0.2	ND ND	ND ND
2KV-441 2KV-442	ND ND	106	-		ND ND		-	÷	-	ND ND	ND ND	ND ND	ND ND	ND ND	NO NO	-0.4 0.6	0.2	-0.2	ND ND	NO NO
21KV-44S	Sub-panel 1 ND	5 74		-	ND ND	-	-	-	-	ND ND	ND ND	ND ND	NO NO	ND ND	NO NO	-0.6	-0.1	-0.2	NO NO	ND ND
2KV-447 2KV-448	ND ND	40.5 13		-	ND ND	-	-	-	- :	ND ND	ND ND	NO NO	NO NO	ND ND	NO NO	-0.1 0.6		-0.2 -0.2	ND ND	ND ND
2KV-451 2KV-452 2KV-453	Sub-panel 2 ND ND	113	- :	- :	ND ND ND		- 1	- :	- :	ND ND	ND ND	ND ND	NO NO	ND ND	ND ND	0.2 -0.7 -1.0	0.1	-0.2 -0.2 -0.2	NO NO	NO NO
2KV-454 2KV-455	ND ND	40.5			ND ND	-				ND ND	NO NO	NO NO	NO NO	ND ND	NO NO	0.5		-0.2	NO NO	ND ND
28V-456 28V-457	ND ND	107			ND ND					ND ND	NO NO	NO NO	NO NO	ND ND	ND ND	-0.9	0.2	-0.2	NO NO	NO NO
2KV-458 2KV-459	ND ND	9		-	ND ND	-	-	-		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0.8		-0.2	NO NO	ND ND
2KV-460 2KV-461	ND Sub-panel 1	40.5 40		-	ND ND	-	-	-	- :	ND ND	ND ND	ND ND	NO NO	ND ND	NO NO	0.5 -1.0		-0.2	ND NO	ND ND
21KV-462 21KV-463	ND Sub-panel 1	33 82		-	ND ND	-	-	-	-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-1.0 -0.3		-0.2	NO NO	ND ND
21KV-464 21KV-465	ND Sub-panel 1	142	-	-	116 ND			-		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.5	0.1	-0.1 -0.2	ND ND	ND ND
2KV-467 2KV-468	Sub-panel 1 ND Sub-panel 2	-0.5 -0.5		- :	ND ND		-			ND ND	ND ND	ND ND	NO NO	ND ND	NO NO	0.0 0.2 0.1	-0.2 0.2 0.1	-0.2 -0.2 -0.2	NO NO	ND ND ND
												100								
2KV-469 2KV-470 2KV-471	Sub-panel 2	40.5 34	3.4	4.0	NO NO Unknown		-	-		ND ND ND	ND ND	ND ND ND	NO NO	ND ND	NO NO	0.0	0.1	-0.2	NO.	ND ND
	Sub-panel 2 Sub-panel 1 ND	40.5 29 40.5 40.5	3.4	4.0	ND ND Unknown ND		-		:	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND				0.1		MO MO MO	ND ND ND
28V-470 28V-471 28V-472 28V-473 28V-474 28V-475	Sub-panel 2 Sub-panel 1 ND ND ND Sub-panel 2	40.5 40.5 40.5 13 40.5	3.4	4.0	ND ND ND ND	-	-	-		ND ND ND ND ND	ND ND ND ND ND ND	NO NO NO NO NO	NO NO NO NO NO	ND ND ND ND ND	NO NO NO NO NO	0.0 0.3 0.1 -0.3 -0.5	0.1 0.2 -0.1 -0.4 -0.3	02 02 02 02 02	MD MD MD MD MD MD	NO NO NO NO NO
28V-420 28V-421 28V-422 28V-422 28V-424 28V-425 28V-425 28V-427	Sub-panel 2 Sub-panel 1 ND ND ND Sub-panel 2 ND Sub-panel 2 ND Sub-panel 2	40.5 29 40.5 40.5 1 40.5 47	3.4	4.0	ND Unknown ND			-		ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	NO NO NO NO NO NO NO	NO NO NO NO NO NO NO	ND ND ND ND ND ND ND ND	NO NO NO NO NO NO NO	0.0 0.3 0.1 -0.3 -0.5 0.4 -0.6	0.1 0.2 0.1 0.4 0.3 0.3 0.3	-0.2 -0.2 -0.2 -0.2 -0.2 -0.2 -0.2 -0.2	MD MD MD MD MD MD MD MD	NO NO NO
2KV-470 2KV-471 2KV-472 2KV-472 2KV-474 2KV-475 2KV-475 2KV-477 2KV-478	Sub-panel 2 Sub-panel 1 NO ND ND Sub-panel 2 Sub-panel 2 Sub-panel 2 Sub-panel 1 Sub-panel 1	40.3 34 40.5 40.5 1 40.3 40.3 40.3 67	3.4	4.0	ND ND ND ND			-		ND ND ND ND ND	ND ND ND ND ND ND	NO NO NO NO NO	NO NO NO NO NO	ND ND ND ND ND	ND ND ND ND ND ND	0.0 0.3 0.1 -0.3 -0.5	0.1 0.2 0.1 0.4 0.3 0.3 0.3	02 02 02 02 02 02 03 03	MD MD MD MD MD MD	NO NO NO NO NO
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285-420 285-421 285-422 285-423 285-424 285-425 285-425 285-425 285-425 285-425 285-425 285-426 285-426 285-426 285-426 285-426 285-486 285-486 285-486 285-486 285-486 285-486 285-486 285-486 285-486 285-486 285-486	Sub-panel 2 Sub-panel 3 Sub-panel 3 ND ND ND ND Sub-panel 2 Sub-panel 2 Sub-panel 3	67 117 84 11 9 59 31 23	3.4		NO Unknown 100 100 100 100 100 100 100 1					NO N	NO N	NO N	NO N	NO N	NO N	0.00 0.31 0.31 0.31 0.31 0.31 0.31 0.31	01 02 03 04 03 03 01 01 01 02 04 03 04 03 04 03 04 04 03 04 04 04 04 04 04 04 04 04 04 04 04 04	21 22 22 22 22 22 22 22 22 22 22 22 22 2	MG M	NO N
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200-02 200-02 200-02 200-02 200-02 200-03 200-03 200-03 200-03 200-03 200-03 200-03 200-03 200-03 200-03 200-03 200-03 200-03 200-03 200-03 200-03 200-04 20	Sub-panel 2	67 117 34 21 22 59 31 21 40.5 61 63	3.4	4.0	NO NO NO NO NO NO NO NO					NO N	NO N	NO N	NO N	100 100 100 100 100 100 100 100 100 100	NO N	0.00 0.01 0.01 0.01 0.01 0.01 0.01 0.01	01 01 01 01 01 01 01 01 01 01 01 01 01 0	31 32 32 32 32 32 32 32 32 32 32 32 32 32	NO N	NO N
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390-029 200-027 200	Sub-panel 3 NO Sub-panel 3 NO NO NO NO NO Sub-panel 2 No	67 117 117 119 119 119 111 111 111 111 11			100 Unknown 100 Un					160 150 150 150 150 150 150 150 150 150 15	100 100 100 100 100 100 100 100 100 100	160 160 160 160 160 160 160 160 160 160	160 160 160 160 160 160 160 160 160 160	160 160 160 160 160 160 160 160 160 160	NO NO NO NO NO NO NO NO	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	01 01 01 01 01 01 01 01 01 01 01 01 01 0	21 22 22 22 22 22 22 22 22 22 22 22 22 2	100 100 100 100 100 100 100 100 100 100	10 10 10 10 10 10 10 10 10 10 10 10 10 1
200-02 200-02 200-02 200-02 200-02 200-02 200-02 200-02 200-02 200-02 200-02 200-03 20	Sub-panel 2 NO Sub-panel 3 NO N	67 117 117 119 119 119 111 111 111 111 11	0.4	0.8	100 Unknown 100 Un					160 150 150 150 150 150 150 150 150 150 15	Mg Mg Mg Mg Mg Mg Mg Mg	160 160 160 160 160 160 160 160 160 160	160 160 160 160 160 160 160 160 160 160	160 160 160 160 160 160 160 160 160 160	No	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	01 01 01 01 01 01 01 01 01 01 01 01 01 0	21 22 22 22 22 22 22 22 22 22 22 22 22 2		10 10 10 10 10 10 10 10 10 10 10 10 10 1
3 ev 429 3 ev 429 3 ev 427 3 ev 427 4 ev 4	Soft-pened 2 Soft-pened 3 NO NO NO NO Soft-pened 2 Soft-pened 2 Soft-pened 3 Soft-pened 4 Soft-p	67 117 117 119 119 119 111 111 111 111 11	0.4	0.8	10					160 150 150 150 150 150 150 150 150 150 15	Mg Mg Mg Mg Mg Mg Mg Mg	100 100 100 100 100 100 100 100 100 100	160 160 160 160 160 160 160 160 160 160	160 160 160 160 160 160 160 160 160 160	Miles Mile	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	91 92 93 93 93 93 93 93 93 93 93 93 93 93 93	10 10 10 10 10 10 10 10 10 10 10 10 10 1	0 0 0 0 0 0 0 0 0 0
200 CS 20	May person May	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.4	0.8	100 100					10 10 10 10 10 10 10 10	Mo	100 100 100 100 100 100 100 100 100 100	160 160 160 160 160 160 160 160 160 160	160 160 160 160 160 160 160 160 160 160	No No No No No No No No	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		10 10 10 10 10 10 10 10
300 CS	Soft-parent 2 Soft-parent 3 NO Soft-parent 3 NO Soft-parent 3 NO Soft-parent 3 Soft-parent 3 NO Soft-parent 3 Soft-parent 3 NO NO Soft-parent 3	20	0.4	0.8	100 100					100 100 100 100 100 100 100 100 100 100	Mo	60 100 100 100 100 100 100 100 100 100 1	100 100 100 100 100 100 100 100 100 100	10 10 10 10 10 10 10 10	MO MO MO MO MO MO MO MO	0.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	91 92 93 93 93 93 93 93 93 93 93 93 93 93 93	10 10 10 10 10 10 10 10	0 0 0 0 0 0 0 0 0 0
200 C23 200 C2	Shi perel 2 his perel 1 his perel 2 his perel 3 his perel 2 his perel 3 his pe	10 10 10 10 10 10 10 10 10 10 10 10 10 1	0.4	0.8	100 100					Miles Mile	MO	60 100 100 100 100 100 100 100 100 100 1	100 100	S		0.00	0.00	1		10 10 10 10 10 10 10 10
200 020 200	Shapering Services of the Serv	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.4	0.8	10					10 10 10 10 10 10 10 10	Mo	60 100 100 100 100 100 100 100 100 100 1		10 10 10 10 10 10 10 10		0.00 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	91 92 93 93 93 93 93 93 93 93 93 93 93 93 93		0 0 0 0 0 0 0 0 0 0
200 420 200	Shapers of the series of the s	101 101 101 101 101 101 101 101 101 101	0.4	0.8	100 100					10 10 10 10 10 10 10 10	Mo	60 100 100 100 100 100 100 100 100 100 1		10 10 10 10 10 10 10 10		0.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	91 92 93 93 93 93 93 93 93 93 93 93 93 93 93		0 0 0 0 0 0 0 0 0 0
200 020 200	Shapers of the series of the s	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.4	0.8	100 100					100 100 100 100 100 100 100 100 100 100	Mo	60 100 100 100 100 100 100 100 100 100 1		10 10 10 10 10 10 10 10		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	91 92 93 93 93 93 93 93 93 93 93 93 93 93 93		0 0 0 0 0 0 0 0 0 0
200 425 200	And percent of the pe	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.4	0.8	100 100					100 100 100 100 100 100 100 100 100 100	Mo	100 100	10 10 10 10 10 10 10 10	10 10 10 10 10 10 10 10		0.00	0.00	1		0
200 025 200 025	And percent of the pe	11 11 11 11 11 11 11 11 11 11 11 11 11	0.4	0.8	100 100					10 10 10 10 10 10 10 10	Mo	60 100 100 100 100 100 100 100 100 100 1				100 mm m	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	91 92 93 93 93 93 93 93 93 93 93 93 93 93 93		N
200 025 200	Shaper Sh	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.4	0.8	10					10 10 10 10 10 10 10 10	Mo	60 100 100 100 100 100 100 100 100 100 1		10 10 10 10 10 10 10 10		100 mm m	0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	91 91 91 91 91 91 91 91 91 91 91 91 91 9		
200 023 200 025 200	Shapers of the series of the s	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.4	0.8	100 100					10 10 10 10 10 10 10 10	MO	100 100 100 100 100 100 100 100 100 100		No. No.		10 10 10 10 10 10 10 10 10 10 10 10 10 1	1	91 92 92 92 92 92 92 92 92 92 92 92 92 92		R
200 020 200	And merch of the m	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.4	0.8	100 100					100 100 100 100 100 100 100 100 100 100	Mo	100 100	10 10 10 10 10 10 10 10	10 10 10 10 10 10 10 10		0.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	91 92 92 92 92 92 92 92 92 92 92 92 92 92		10 10 10 10 10 10 10 10
200 025 200 02	Abberton State of the State of	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.4	0.8	100 100					10 10 10 10 10 10 10 10	Mo	100 100				100 100 100 100 100 100 100 100 100 100	0.00	1		
200 023 200	And percent of the pe	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.4	0.8	100 100					No	Mo	100 100	10 10 10 10 10 10 10 10	No. No.		100 mm m	0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	1		
200 C23 200 C2	Shapers Shaper	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.4	0.8	100 100					100 100 100 100 100 100 100 100 100 100	Mo	100 100	10 10 10 10 10 10 10 10	10 10 10 10 10 10 10 10		100 100 100 100 100 100 100 100 100 100	0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	91 92 93 93 93 93 93 93 93 93 93 93 93 93 93		
200 023 200	And merch of the m	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.4	0.8	10					10 10 10 10 10 10 10 10	Mo	100 100		10 10 10 10 10 10 10 10		10 10 10 10 10 10 10 10 10 10 10 10 10 1	1	91 92 93 93 93 93 93 93 93 93 93 93 93 93 93		R
200 023 200 02	Abberteit Abbert	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.4	0.8	100 100					100 100 100 100 100 100 100 100 100 100	May May	100 100 100 100 100 100 100 100 100 100	10 10 10 10 10 10 10 10	10 10 10 10 10 10 10 10		10 10 10 10 10 10 10 10 10 10 10 10 10 1	1	91 92 93 93 93 93 93 93 93 93 93 93 93 93 93		0

2169-556 2169-557 2169-558	Sub-panel 1		-	-	NO			<u> </u>		NO.	ND	ND	NO.	NO.	ND.		3 0.0	-0.2	NO	ND
2107-558	Sub-panel 1 Sub-panel 1	220	-	-	ND ND	-	-	-	-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.	B 0.3	-0.2	ND ND	ND ND
2107-559	Sub-panel 2 Sub-panel 2	73 40.5		-	ND ND	-	-	-		ND ND	NO NO NO	ND ND	ND ND	ND ND	ND ND	-0. -0.	7 -0.3 3 -0.1	-0.2	ND ND	ND ND ND
2HV-560 2HV-561	Sub-panel 1 Sub-panel 1	63			NO NO					NO NO	NO NO	ND ND	ND ND	ND ND	ND ND	-0.	4 -0.4	-0.1	NO NO	ND
200-562	Sub-panel 1	- 1			ND					ND NO	ND	ND	ND ND	ND ND	ND.	0.	1 01	-0.2	ND ND	ND ND
210V-563 210V-564	Sub-panel 1 Sub-panel 2	133	4.0 1.8	3.9 2.4	FL Unknown		- :			NO NO	ND ND	ND ND	ND ND	ND ND	ND NO	2.	9 05	-0.2	ND ND	ND ND
21KV-566 21KV-567	Sub-panel 2 Sub-panel 1	53	3.6	4.1	DIII	+			-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-1. 5.	4 0.4 5 6.1	-0.2	ND ND	ND ND
21KV-568 21KV-569	ND Sub-panel 1	158	3.6	4.0	Unknown	+	-			NO NO	NO NO	ND ND	ND ND	ND ND	ND ND	2.	0 11	1.5	NO NO	ND ND
21107-570	ND	- 4	2.3	3.5	DIII	+	+		+	- :	+	ND .	674	ND ND	61	0.	3 -0.2	-0.2	ND	ND
2HV-571 2HV-572	Sub-panel 1 Sub-panel 1	96			ND ND					ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0. 0.	1 0.0	-0.2	ND ND	ND ND
210V-574 210V-575	Sub-panel 2 Sub-panel 1	21		-	ND ND				-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0. -0.	3 0.0	-0.2	ND ND	ND ND
2109-576 2109-577	ND	<0.5			ND ND		-			ND ND	ND ND	ND ND	ND ND	ND ND	90 NO	-0.	4 -0.1		ND ND	ND ND
2107-579	Sub-panel 1 Sub-panel 1	<0.5			ND ND					ND ND	ND ND	ND	ND ND	ND ND	ND ND	-0.			ND ND	ND
2HV-580 2HV-583	Sub-panel 2 ND	110	-		Unknown			- +	- +	+ NO	+ NO	ND ND	492 NO	5,931 NO	3,368 ND	-0. -0.	1 -0.1	-0.2	ND ND	ND ND
210V-584 210V-585	Sub-panel 1 Sub-panel 2	e05	-	-	ND ND	-	-	-		NO NO	NO NO	ND ND	ND ND	ND ND	ND ND	-0. 0.	0 -0.1	-0.2	ND ND	ND ND
21KV-586 21KV-587	Sub-panel 1	41 172			ND ND					ND ND	ND	ND ND	NO NO	ND ND	ND ND	-0.	7 0.0			ND
2107-589	ND Sub-panel 1		- :		ND	- :				ND ND	NO NO	ND ND	ND ND	ND ND	ND ND	-0.	5 -0.6		ND ND	ND ND
2169-591 2169-592 2169-593	Sub-panel 2 Sub-panel 1		-	-	ND ND	-	-	-		ND ND	ND ND	ND ND	ND ND	NO NO	ND ND	-0. -0.	3 -0.6 6 -0.4	-0.1	ND ND	ND ND
21KV-592 21KV-595	Sub-panel 1 Sub-panel 1	- 0	-	-	ND ND	-	-		-	NO NO	NO NO	ND ND	ND ND	ND ND	ND ND	-0.	-0.3	-0.1	NO NO	ND ND ND
21KV-597 21KV-599	Sub-panel 1	<0.5	-		ND ND					ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0.	6 -0.0	0.0	ND ND	ND ND
21107-600	Sub-panel 2 Sub-panel 1	<0.5 <0.5			ND ND					ND ND	ND ND	ND	ND ND	ND ND	ND	-0. -0.	7 -0.1	-0.1	ND ND	ND
2HV-601 2HV-602	Sub-panel 1 Sub-panel 1	43	-	-	ND ND	-	-	+		ND ND	NO NO	ND ND	ND ND	ND ND	ND ND	-0.	9 -0.0	-0.1	ND ND	ND ND
2107-604 2107-605	Sub-panel 1 Sub-panel 1	50			ND ND			+		NO NO NO	ND ND ND	ND ND	ND ND ND	ND ND	ND ND	-0. 0.	1 -0.5	-0.2	ND ND	ND ND ND
21KV-606 21KV-608	Sub-panel 2	112	2.8	3.8	NO DIII	- :		- :		NO +	NO +	ND ND	ND 75	ND 2,165	5,661	-0.	3 -0.1		ND >3,000	ND 118
2107-610 2107-612	Sub-panel 1 Sub-panel 1	97	0		ND ND	·	·	+		ND ND	NO NO	ND	NO NO	2,165 ND ND	ND ND	-0.	9 -04	-0.2	NO NO	ND ND
2107-613	Sub-panel 1 Sub-panel 1	28			NO NO					ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0. -0.	1 -0.3 4 -0.3	-0.2	ND ND	ND
2107-614 2107-616	Sub-panel 1 Sub-panel 2	21			ND ND					ND ND	ND ND	ND ND	NO NO	NO NO	9 9	0.	1 -0.5	-0.2	ND ND	ND ND
2169-618 2169-619	Sub-panel 2 Sub-panel 1	52			ND ND					NO NO	ND ND	ND ND	ND ND	ND ND	ND ND	-0.	4 0.0	-0.2	ND ND	ND ND
2107-620	Sub-panel 1	26 64			NO NO	÷				ND ND	ND	ND	ND ND	ND ND	M	-0.	-0.2	-0.2	ND ND	ND
21KV-621	Sub-panel 2 Sub-panel 1	24 40.5	1.1		Unknown					ND ND	ND ND	ND ND	NO NO	NO NO	NO NO	-1. 0.	0 -0.5	-0.2	ND ND	ND ND
21KV-623 21KV-625	Sub-panel 2 Sub-panel 1	40 40.5			ND ND	<u></u>				NO NO	ND ND	ND ND	ND ND	ND ND	ND ND	-1. 0.	2 -0.5	-0.1	ND ND	ND ND
21KV-626 21KV-628	Sub-panel 1 Sub-panel 1	<0.5			ND ND					ND ND	ND ND	ND ND	NO NO	ND ND	ND ND	0.	6 -0.4	-0.2	ND ND	ND ND
21KV-629 21KV-620	Sub-panel 1	12		-	NO NO		-		-	NO NO	NO NO	ND ND	ND ND	ND ND	ND	0.	5 00	-0.2	ND ND	ND ND
2107-634	Sub-panel 1 ND	126 50	3.3 0.6	3.5	116			-		ND ND	ND ND	ND	NO NO 127	ND ND	ND	1	6 00	-0.1	ND ND	ND ND 171
21KV-635 21KV-636 21KV-637	Sub-panel 2 Sub-panel 2	145 <0.5		0.6	Unknown			-	+	+ NO	+ NO	258 NO	ND ND	333 NO NO	647 ND	0.	e -0.1 0 -0.8	-0.2	90 NO	171 ND ND
2HV-638	Sub-panel 2 Sub-panel 1	<0.5	-	-	ND ND	-	-	-	-	ND ND	ND ND	ND ND	NO NO	ND ND	NO NO	0.	3 -0.5 4 -0.3	-0.2	NO NO	ND
21KV-639 21KV-640	Sub-panel 1 Sub-panel 1	28	-		ND ND	-		-	-	NO NO	NO NO	ND ND	ND ND	ND ND	ND ND	0.	1 -0.1	-0.2	ND ND	ND ND
2107-641	Sub-panel 1	<0.5			ND ND					ND ND	NO NO	ND ND	NO NO	NO NO	NO NO	0.	4 -0.2	-0.2	NO NO	ND ND
21KV-642 21KV-643 21KV-644	Sub-panel 2 Sub-panel 1	28			ND ND		- :			ND ND	ND	ND	ND ND	ND ND	ND	0.	2 -0.5	-0.2	ND ND	
210V-644 210V-646	Sub-panel 2 Sub-panel 1	178	3.2	2.9	Unknown		-	-	-	ND ND	ND ND	ND ND	NO NO	ND ND	ND ND	-0.	8 -0.1 6 -0.5	0.3	ND ND	ND ND ND
21KV-647 21KV-648	Sub-panel 1 Sub-panel 2	24	2.9	2.3	Unknown	-		-		NO NO	NO NO	ND ND	NO NO	NO NO	ND ND	0.	s -0.3 9 0.3	-0.2	ND ND	ND ND
21KV-649 21KV-650	Sub-panel 1 Sub-panel 1	40.5	2.8 3.2	2.2 4.0	DIII FL					NO NO	ND ND	ND ND	ND ND	ND ND	ND NO	0.	4 -0.1	-0.2	ND ND	ND ND
21KV-651 21KV-653	Sub-panel 1	114	3.3	4.1	FL NO		- :			NO NO	ND	ND ND	ND ND	ND ND	ND ND	5	8 7.4	4.4	ND ND	ND ND
2107-655	Sub-panel 1 Sub-panel 1	11	·		ND			·	-	NO NO	ND ND	ND ND	ND ND	ND ND	ND ND	-0.	0 -0.5 4 -0.8	-0.2	ND ND	ND ND
2107-657 2107-658	Sub-panel 1 Sub-panel 1	118			ND ND					NO NO	+ NO NO	ND ND	153 NO	ND ND	1,143 ND	-0.	7 -0.2	-0.2	ND ND	ND ND ND
210V-659 210V-661	Sub-panel 1 Sub-panel 2	87 26		0.6	ND ND	:		-		ND ND	ND ND	ND ND	ND ND	ND ND	NO NO	-0. 0.	1 03	-0.2	ND ND	ND
21KV-662 21KV-663	Sub-panel 1 Sub-panel 1	79	-	-	ND ND	-	-	-	-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0. 0.	8 0.1 8 -0.1	-0.2	ND ND	ND ND
2107-664	Sub-panel 2 Sub-panel 1	<0.5 200	-	- :	NO NO	-	-			NO NO	ND ND	ND ND	NO NO	NO NO	NO NO	-0. 0.	2 -0.5	-0.2	ND ND	ND ND
21KV-666 21KV-667	Sub-panel 1 Sub-panel 1	213	-		NO NO	-		-	-	NO NO	NO NO	ND ND	ND ND	ND ND	ND ND	-0.	3 00	-0.2	ND ND	ND ND
2107-668 2107-669	Sub-panel 2	55	0.6		Unknown		+	+		-	+	158	109 ND	262 ND	272 ND	-0.	5 -0.1	0.3		195 ND
2104-670	Sub-panel 1 Sub-panel 1			0.3	UIIKIIOWII	+				100		10						0.2	128	
2169-671 2169-673	Sub-panel 1	174	-	0.3	NO NO	+ 		÷	-	NO NO	NO NO	ND ND	ND ND	ND ND	ND.	-0.	5 00 3 02	-0.2	ND ND	ND
21KV-674 21KV-677	Sub-panel 2	11 174 <0.5	3.1	-	NO NO NO DIII	+ - - - - +				ND ND	ND ND	ND ND ND	ND ND	ND ND	ND ND	0. -0. 0. 2.	5 0.0 3 0.2 0 -0.2 2 0.5	-0.2 -0.2 2.3	ND ND ND ND	ND ND ND
2107-679	Sub-panel 2 Sub-panel 1 Sub-panel 1	13 274 <0.5 343 7	-	2.8	ND ND	+ 			-	ND NO	ND ND	ND ND ND	ND ND ND ND	NO NO NO	ND ND	0. -0. 0. 2. -0.	5 00 3 02 0 -02 2 05 4 -03	-0.2 -0.2 2.3 -0.2	ND ND	ND ND ND ND
2104-640	Sub-panel 1 Sub-panel 1 Sub-panel 1	11 174 40.5 143 7 52 290	3.1	-	NO NO DIII Unknown	+	-	-		NO NO NO NO NO	ND ND ND ND ND	ND ND ND ND ND ND	ND ND	NO NO	NO NO NO	0. -0. 0. 2. -0. -1. 2.	3 02 0 -02 2 05 4 -03 1 -04	-0.2 -0.2 2.3 -0.2 -0.2 -0.2	ND ND ND ND	ND ND ND ND ND
21KV-681	Sub-panel 1 Sub-panel 1 Sub-panel 1 Sub-panel 1 Sub-panel 2	224 <0.5 343 7 52 290 75 221	3.1	2.8	NO NO NO DIII Unknown NO 116 NO 116	+	- - - - - +	- - - - - - +	· · · · · · · · · · · · · · · · · · ·	NO NO NO NO + + NO + +	NO NO NO NO + NO + +	ND N	ND ND ND ND	NO NO NO	ND ND ND ND	0. -0. 0. 2. -0. -1. 2. -0.	3 0.2 0 -0.2 2 0.5 4 -0.3	-0.2 -0.2 2.3 -0.2 -0.2 -0.2	ND ND ND ND ND	ND N
21KV-681 21KV-681 21KV-682	Sub-panel 1 Sub-panel 1 Sub-panel 1 Sub-panel 1 Sub-panel 2 Sub-panel 2 Sub-panel 2	22 244 40,5 243 27 290 275 228 228 33	3.1	2.8 3.4	NO NO NO DIII Unknown NO 116 NO 116 NO	+ + +	+	- - - - - - - +	- - - - - - +	NO N	NO NO NO NO + NO	ND N	ND ND ND ND ND 1,300 ND 184 ND	ND N	ND N	00. 0. 201. 201. 20000000.	3 02 0 -02 2 05 4 -03 1 -04	-02 -02 -03 -02 -02 -02 -02 -02 -03 -03 -03 -03 -03 -03 -03 -03 -03 -03	NO N	NO N
2104-680 2104-681 2104-682 2104-685 2104-686 2104-687	Sub-panel 1 Sub-panel 1 Sub-panel 1 Sub-panel 1 Sub-panel 2 Sub-panel 2	22 274 40.5 243 7 52 290 75 228 3 3 3 3 1 3 1	3.1	2.8 3.4	NO NO NO DIII Unknown NO 1166 NO	+	+	+	- - - - - +	NO NO NO + NO + NO + NO	NO NO NO NO + NO + NO NO + NO	ND N	NO N	NO N	NO N	00. 201. 20. 201001001001.	3 02 0 -02 2 05 4 -03 1 -04	-0.2 -0.2 -0.2 -0.2 -0.2 -0.2 -0.2 -0.2	NO N	ND N
2107-680 2107-681 2107-682 2107-685 2107-686	Sub-panel 1 Sub-panel 1 Sub-panel 1 Sub-panel 1 Sub-panel 2	22 224 245 245 245 245 245 245 245 245 2	3.1	2.8 3.4	NO NO NO DIII Unknown NO 1156 NO 1156 NO	+	+	+		NO N	ND N	ND N	NO N	NO N	ND ND ND ND 1,114 ND	000112011011011.	3 02 0 -02 2 05 4 -03 1 -04	-0.2 -0.2 -0.2 -0.2 -0.2 -0.2 -0.2 -0.2	NO N	ND N
200-680 200-681 200-682 200-685 200-686 200-687 200-689 200-690	Sub-parel 1 Sub-parel 1 Sub-parel 1 Sub-parel 1 Sub-parel 2 Sub-parel 2 Sub-parel 2 Sub-parel 2 Sub-parel 2 Sub-parel 3 Sub-parel 3 Sub-parel 4 Sub-parel 1 Sub-parel 1 Sub-parel 1	212 224 243 243 243 243 243 243 243 243 24	3.1	2.8 3.4	NO N	+			- - - - - - - - - - - - - - - - - - -	NO N	NO N	NO N	NO N	ND N	NO N	000120001010000000000	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-0.2 -0.2 -0.2 -0.2 -0.2 -0.2 -0.2 -0.2	NO N	ND N
200-660 200-681 200-682 200-685 200-685 200-687 200-689 200-680 200-682 200-682	Sub-parel 1 Sub-parel 1 Sub-parel 1 Sub-parel 1 Sub-parel 2 Sub-parel 2 Sub-parel 2 Sub-parel 2 Sub-parel 2 Sub-parel 2 Sub-parel 3 Sub-parel 1	11 2144 2144 2144 2144 2144 2144 2144 2	3.1	2.8 3.4	NO N	+		+	- - - - - - - - - - - - - - - - - - -	NO N	NO N	NO N	NO N	NO N	MO M	0000000000	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	01 01 02 02 02 02 02 02 02 02 03 02 03 04 02 04 04 04 04 04 04 04 04 04 04 04 04 04	NO N	NO N
2004-680 2004-681 2004-682 2004-685 2004-685 2004-689 2004-689 2004-682 2004-684 2004-685 2004-685	Sub-parel 1 Sub-parel 1 Sub-parel 1 Sub-parel 1 Sub-parel 2 Sub-parel 1	11 174 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.1 3.5 3.5 1.9 3.2	2.8 3.4 1.8 3.5	NO N	+			- - - - - - - - - - - - - - - - - - -	NO N	NO N	NO N	NO N	NO N	MC M	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	01 01 02 02 02 02 02 02 02 03 03 04 02 04 02 04 04 04 04 04 04 04 04 04 04 04 04 04	NO N	NO N
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2107-772	Sub-panel 1 Sub-panel 1	2	3.7	2.7	ND 117			-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.	0.3	2 -0.1	ND ND	ND ND ND
21KV-773 21KV-774	Sub-panel 1 Sub-panel 1	<0.5		-	NO NO		-	-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0. -0.	1 -0.4	e -0.:	ND ND	ND ND
21KV-77S 21KV-77G	Sub-panel 1	45	0.4	0.5	Unknown		-		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.	-0.2	2 -0.2	ND ND	ND ND
200/-777	Sub-panel 1 Sub-panel 1	<0.5			ND ND				ND ND	ND	ND	ND ND	ND ND	ND ND	0.	1 0.1	3 -0.4	ND ND	ND
2HV-778 2HV-779	Sub-panel 1 Sub-panel 1	<0.5	-		ND ND		+ :	-	ND ND	ND ND	ND ND	ND ND	NG NG	ND ND	0.	2 0.2	2 -0.1	ND ND	ND ND
21KV-780 21KV-781	Sub-panel 1	34			ND ND		-		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0. -0.	9 -0.1	3 -0.2 2 -0.2	NO.	ND ND
2107-782	Sub-panel 1 Sub-panel 2	40.5			ND ND			-	NO NO	NO NO	ND	ND ND	ND ND	NO.	0.	-0.1	3 -0.3	ND	ND
21KV-784 21KV-786	Sub-panel 1 Sub-panel 1	- 4			ND ND		+ :		ND ND	NO NO	ND ND	NO NO	NO NO	NO NO	-0.	0.1	1 -0.1	NO NO	ND ND
21KV-789 21KV-790	Sub-panel 1	83	3.5	3.5	Unknown		-		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	4.	3.1	2 -0.1	ND ND	ND ND
2HV-792	Sub-panel 1 Sub-panel 1	78			ND ND				ND.	ND ND	ND	ND ND	ND ND	10	-0.	7 0.1	1 -0.3	ND ND	ND
2HV-793 2HV-794	Sub-panel 1 Sub-panel 2	189	3.8	4.0	FL NO		+ :-	-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	3.	9 6.3 B 0.4	7 7.6	ND ND	ND ND
2107-795 2107-796	Sub-panel 1	218			ND NO				ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0.	0.1	1 -0.2	ND ND	ND ND
2HW-797	Sub-panel 2 Sub-panel 1	78			ND ND				ND ND	ND	ND ND	ND ND	ND ND	ND ND	-0.	0.3	2 -0.4	ND ND	ND
21KV-798 21KV-799	Sub-panel 1 Sub-panel 1	115	1.9	1.5	Unknown		+ :	-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.	9 11	7 -0.2 1 0.2	ND ND	ND ND
21KV-900 21KV-901	Sub-panel 1	24			ND	-		-	ND ND	ND ND	ND ND	ND ND	ND ND	N0 N0	0.	0.0	-0.3	ND ND	ND ND
2HV-902	Sub-panel 1 Sub-panel 2	75 40.5			ND ND				ND ND	ND ND	ND	ND ND	ND ND	ND.	-0.	2 -0.4	4 -0.2	ND ND	ND
21KV-903 21KV-904	Sub-panel 1 Sub-panel 1	40.5	-	-	ND ND		+ :		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0.	0.1	s -0.2	ND ND	ND ND
21KV-90G 21KV-90G	Sub-panel 1	83			NO NO				NO NO	ND ND	ND ND	ND ND	ND ND	ND ND	-0.	0.2	2 -0.4	ND ND	ND ND
2HV-907	Sub-panel 1 Sub-panel 2	40.5			NO NO				ND ND	ND ND	ND	ND ND	ND ND	ND ND	0.	0.1	3 -0.1	ND	ND ND
2HV-810 2HV-811	Sub-panel 1 Sub-panel 1	54 343	-		ND ND		+ :	-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-1. 0.	9 0.1	2 -0.1 1 -0.1	ND ND	ND ND
21KV-813 21KV-814	Sub-panel 1 Sub-panel 2	25			ND ND		-		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0.	-0.4		ND ND	ND ND
2004-815	Sub-panel 1	30			ND NO		-	-	ND	ND	ND	ND ND	ND ND	ND OM	0.	0.0	-0.3	ND	ND
2HV-916 2HV-917	Sub-panel 1 Sub-panel 1	115	3.6	3.8 3.0	Unknown	+ +		*	+ NO	+ NO	ND ND	218 ND	1,761 NO	513 NO	3. 0.	2 -0.1	1 -0.1	>3,000 NO	299 ND
21KV-818 21KV-819	Sub-panel 1 Sub-panel 1	79	-	-	ND ND			-	ND ND	NO NO	ND ND	NO NO	NO NO	NO NO	-0.	0.2	2 -0.1	ND ND	ND ND ND
2IKV-920	Sub-panel 1	12			ND ND				ND	ND ND	ND ND	ND ND	ND	ND ND		-0.2		NO	ND
21KV-921 21KV-922	Sub-panel 1 Sub-panel 1	300			NO NO				ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0.	-0.5	-0.1	ND ND	ND ND
21KV-92G 21KV-930	Sub-panel 1 Sub-panel 1	35	3.7	4.0	FL ND			-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	3. n	1 12	2 1.5	ND ND	ND ND
2109-832	Sub-panel 1	35	-		ND ND			-	ND ND	ND ND	ND	ND ND	ND ND	ND ND	-0.	-0.1	1 -0.1	ND ND	ND
21KV-941 21KV-942	Sub-panel 1 Sub-panel 2	62 72			NO NO				ND ND	NO NO	ND ND	NO NO	ND ND	ND ND	-0. -0.	9 -0.4			ND ND
21KV-943 21KV-944	Sub-panel 2 Sub-panel 1	46			ND ND			-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0. -0.	9 -0.1	3 -0.2 8 -0.2	ND ND	ND ND
21XV-945 21XV-946	Sub-panel 1	40.5 282	3.8	4.0	Unknown	+ +	+	+	-	+	ND	ND ND	ND ND	ND ND	-0.	3.5	5.4	ND ND	ND
200-947	Sub-panel 1 Sub-panel 1	34 71			ND ND				ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0. -1.	0.1		ND ND	ND ND
2HV-948	Sub-panel 1 Sub-panel 1	<0.5	3.3	3.5	NO Unknown				ND ND	ND	ND ND	ND ND	ND ND	ND ND	-0.	-0.1	-0.3	ND ND	ND
21KV-969 21KV-950	Sub-panel 2	- 57 - 40.5			NO NO				ND ND	NO NO	ND	ND ND	ND ND	ND ND	-0.	-0.1	-0.3	ND ND	ND ND
2HV-851 2HV-852	Sub-panel 1 Sub-panel 2	36 48			ND ND				ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0. -0.	0.0	6 -0.1 3 -0.1	ND ND	ND ND
21KV-853 21KV-854	Sub-panel 2 Sub-panel 1	23		-	ND ND			-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-1	-0.2	2 -0.1	ND ND	ND ND
200-855	Sub-panel 1	40	1.8	1.6 3.9	Unknown			-	ND ND	ND	ND	ND ND	ND ND	ND ND	-0.	0.0	-0.3	ND ND	ND
21KV-956 21KV-957	Sub-panel 1 Sub-panel 1	202 47	3.5	3.9	FL NO				ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	4.	6.1	0 -0.	ND ND	ND ND
21KV-858 21KV-859	Sub-panel 1 Sub-panel 1	26			ND ND			-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0.	2 -0.1 6 -0.2	1 -0.1 2 -0.1	ND ND	ND ND
21KV-860 21KV-861	Sub-panel 2	54			ND ND		-		ND ND	NO NO	ND ND	ND ND	ND ND	ND ND	-0.	-0.2	2 -0.3	ND ND	ND ND
2HV-962	Sub-panel 1 Sub-panel 1	53 52	3.8	4.1	FL NO			- :	ND	ND	ND	ND ND	ND ND	ND ND	-0.	2.3	3 3.0	ND	ND
21KV-863 21KV-864	Sub-panel 1 Sub-panel 2	73		-	ND ND			-	ND ND	ND ND	ND ND	NO NO	ND ND	ND ND	-0. n	0.1	1 -0.1	ND ND	ND ND
210V-865 210V-866	Sub-panel 1	125	-	-	NO NO			-	ND ND	ND ND	ND	ND ND	ND ND	ND ND	-0.	0.5	-0.2	NO.	ND ND
21KV-967	Sub-panel 1 Sub-panel 2	43										No.	Jan.						
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210V-969 210V-969 210V-970 210V-971	Sub-panel 1 Sub-panel 1 Sub-panel 1	234 234 73 18	2.0	0.9	NO NO NO Unknown	· · · · · · · · · · · · · · · · · · ·	+	+	ND ND	NO NO	ND ND	ND ND ND 66 NO NO	ND ND ND 945	ND ND	-1 0 -0 -0 0	2 -02 7 -02 7 -03	2 -0.2 2 -0.2 2 -0.3 0 -0.3	ND ND	ND ND ND 215 ND ND
2169-868 2169-869 2169-870 2169-871 2169-872	Sub-panel 1 Sub-panel 1 Sub-panel 1 Sub-panel 1 Sub-panel 1	234 73 18 64	2.0	0.9	NO NO Unknown Unknown	· · · · · · · · · · · · · · · · · · ·	+	+	NO NO NO + NO - NO NO - NO	NO NO NO + NO + NO + NO	ND ND ND ND ND ND ND ND	ND ND 66 ND ND ND	ND ND ND 945 ND ND ND	MD MD MD MD MD MD MD	-1 0 -0 -0 0 0	2 -0.2 7 -0.2 7 -0.2	2 -0.2 2 -0.2 2 -0.3 0 -0.3 0 -0.3	ND ND 283 ND ND ND ND ND	ND ND 215 ND ND ND ND ND ND ND
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200 M2	1. Sch gest 1. Sch gest 2. Sch	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.2 3.7 3.7 3.2 3.2 3.5 1.5 	3,1 3,1 3,7 3,7 3,3 3,3 3,8 3,3 1,3 1,3 1,3 1,3 1,3 1,3 1,3	West	+ + + + + + + + + + + + + + + + + + +	+ + +		100 100	100 100 100 100 100 100 100 100 100 100	MO MO MO MO MO MO MO MO	100 100 100 100 100 100 100 100 100 100	100 100 100 100 100 100 100 100 100 100	C C C C C C C C C C	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0			60 100 100 100 100 100 100 100 100 100 1	W W W W W W W W W W
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21KV-588 21KV-590	Sub-panel 1 Sub-panel 1	25	3.5	3.1	NO NO	-	NO NO	1		NO NO	ND ND	ND ND	ND ND	ND ND	ND ND	0.	5 -0.4	-0.4	NO NO	ND ND
2169-594 2169-596	Sub-panel 1 Sub-panel 1	40 51	0.9	0.8	ND ND	-	NO NO			ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.	2 04	-0.4	NO NO	ND ND ND ND
21KV-598 21KV-603 21KV-607	Sub-panel 2 Sub-panel 1 Sub-panel 2	65		-	ND ND	-	ND ND		-	ND ND	NO NO	ND ND	ND ND	ND ND	ND ND	-0. -0.	0.4	-0.4	NO NO	ND ND
21KV-607 21KV-609 21KV-615	Sub-panel 1 Sub-panel 1	56 28	4.1 3.8	4.0 3.3	DII NO		ND ND	+		+ NO	+ NO	36 ND	38 NO	367 ND	115 NO	2.	1 34 9 13	3.1 1.6	204 ND	125 ND ND
210V-617 210V-624 210V-627	Sub-panel 2 Sub-panel 2 Sub-panel 1	37 78	3.5	2.5	Unknown	+	NO NO	+	+	ND +	NO +	ND 5	ND 20	127	466 2,669	1.	9 05	-0.4 -0.1	NO 689 NO	190
216V-627 216V-631 216V-632	Sub-panel 2 Sub-panel 1	40.5 89	4.0	3.2	ND ND	+	ND ND			ND -	+ ND +	ND ND	ND ND	ND ND	ND ND	0.	6 -0.4 6 -0.1	-0.4	ND ND	ND ND ND
21KV-645 21KV-645 21KV-652	Sub-panel 1 Sub-panel 1	47	4.0 3.8	3.8 3.7	NO NO DII	-	NO NO			NO NO	ND ND	ND ND 49	ND ND 71	ND ND 567	ND ND 156	-0. 1.	6 31	-0.4 3.1	ND ND 309	ND ND 192
2107-654	Sub-panel 2 Sub-panel 1 Sub-panel 1	57	3.9	4.0	NO NO	-	ND ND		+	NO NO	ND ND	ND ND	NO NO	ND ND	ND ND	1 0	2 32	3.0	ND ND	ND
21KV-656 21KV-650 21KV-672	Sub-panel 2 Sub-panel 1	31 <0.5	3.7	3.4	ND ND		ND ND	+	+	+ ND	NO + NO	ND ND	26 ND	ND ND ND	204 ND	1.	1 0.1	-0.4	NO NO	ND ND ND
2103-675 2103-676 2103-678	Sub-panel 1 Sub-panel 1 Sub-panel 1	33 42	4.0	4.1	NO NO		ND ND		+	ND ND ND	ND ND ND	ND ND	ND ND	ND ND	ND ND	-0. 1.	2 23	-0.4	NO NO	ND ND ND
21KV-682 21KV-684	Sub-panel 1 Sub-panel 1	12	3.9 4.0 3.9	3.6 3.7 3.9	Unknown DIII	+	ND ND	+	+	+	+	178 59	221 215	2,071 602	839 1,399	2.	4 1.8 6 0.3	2.1	221 ND	204 ND
21KV-688 21KV-703 21KV-710	Sub-panel 1 Sub-panel 1	23	3.9 - 4.0	3.9	ND ND ND	-	ND ND		-	ND ND ND	ND ND ND	ND ND	ND ND	ND ND	ND ND	2.	7 05	2.1 -0.4 2.5	ND ND ND	ND ND ND
2169-712 2169-712	Sub-panel 1 Sub-panel 1 Sub-panel 1	35 30 24	4.0 4.0 0.7	3.8 0.3	NO NO		NO NO	-		NO +	NO +	ND ND	NO 329	ND ND	2,150	2.	2.0	24	ND ND	ND
2HV-725 2HV-732	Sub-panel 2 Sub-panel 1	36 23	-		ND ND	-	ND ND	- 1		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0. 0.	0.4	-0.4	NO NO	ND ND ND
2107-745 2107-740 2107-744	Sub-panel 1 Sub-panel 1 Sub-panel 2	42			ND ND		ND ND	+		ND ND ND	NO NO	ND ND	NO NO	ND ND	ND ND	-a.	9 04	-0.4	ND ND ND	ND ND
2107-746 2107-745 2107-746 2107-747	Sub-panel 1 Sub-panel 1	32 46	-	-	ND ND		ND ND		-	ND ND	ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND	-0. -0.	4 -0.4 6 -0.5	-0.4	ND ND	ND ND ND ND
2107-247 2107-248 2107-249	Sub-panel 2 Sub-panel 1	35 43	- :	- :	NO NO	÷	ND ND	- :	- :	NO NO NO	ND ND ND	ND ND	ND ND ND	ND ND ND	ND ND	-1.	0 -0.5	-0.4	NO NO	ND ND ND
2107-769 2107-750 2107-751	Sub-panel 1 Sub-panel 1 Sub-panel 1	40.5 40.5			NO NO		ND ND	<u>.</u> .		NO NO	ND ND	ND ND	ND ND	ND ND	ND ND	0.		-0.4	NO NO	ND
21KV-753 21KV-755	Sub-panel 1 Sub-panel 1	<0.5 35			NO NO		ND ND			ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.	0.1	-0.4	NO NO	ND ND ND
2107-756 2107-757 2107-758	Sub-panel 1 Sub-panel 1 Sub-panel 2	12 40.5			ND ND ND	-	ND ND		-	ND ND ND	ND ND ND	ND ND	ND ND	ND ND	ND ND	-0. -0. 0.	2 -0.5	-0.4	ND ND ND	ND ND ND
210V-759 210V-761	Sub-panel 1 Sub-panel 2	7 40.5			NO NO	-	ND ND	-	-	ND ND	ND ND	ND ND	ND ND	ND ND	N0 N0	2.	9 -0.2	-0.4	ND ND	ND ND
2109-762 2109-763 2109-765	Sub-panel 2 Sub-panel 1	34			NO NO		ND ND			NO NO	ND ND	ND ND	ND ND	ND ND ND	ND ND	1	0 -0.5	-0.4	ND ND	ND ND
2107-766 2107-767	Sub-panel 2 Sub-panel 1 Sub-panel 1	40.5 24			NO NO		ND ND		-	ND ND ND	NO NO	ND ND ND	ND ND ND	ND ND ND	ND ND ND	-0. 0.	4 -05	-0.4	ND ND ND	ND ND
210V-768 210V-769	Sub-panel 2 Sub-panel 2	34 40.5	-	-	ND ND	- 1	ND ND		-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	-0. -0.	0.4	-0.4	ND ND	ND ND
2169-783 2169-785 2169-787	Sub-panel 2 Sub-panel 1 Sub-panel 1	20 28	4.1	3.9	ND ND		ND ND			NO NO NO	ND ND ND	ND ND	ND ND ND	ND ND ND	ND ND	-1. 1.	3 -0.4 3 35 1 -0.4	11	ND ND ND	ND ND ND
210V-792 210V-792 210V-791 210V-808	Sub-panel 1 Sub-panel 1 Sub-panel 1	50 75 48	4.1 0.5	3.4	NO NO		ND ND			ND ND	NO NO	ND ND	ND ND	ND ND	ND ND	-0. 0.	0.4 0.1 0.1	-0.1	ND ND	ND
2HV-909	Sub-panel 1 Sub-panel 1	32 76	2.0	1.9	NO NO	-	ND ND	- 1		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	1.	2 -0.4	2.1	ND ND	ND ND ND
216V-812 216V-823 216V-824	Sub-panel 1 Sub-panel 1 Sub-panel 1	99 85	3.9	3.2	ND ND		NO NO			ND ND	ND ND	ND ND	NO NO	ND ND	ND ND	-0. 0.	9 -0.4 6 10	-0.4 2.1	NO NO	ND
21KV-924 21KV-925 21KV-927 21KV-928	Sub-panel 1 Sub-panel 2	11 50		-	ND ND		ND ND		-	ND ND ND	NO NO NO	ND ND ND	ND ND ND	NO NO NO	10 10 10	0.	4 -0.5 8 -0.4	-0.4	ND ND	ND ND ND ND
21KV-928 21KV-929 21KV-921	Sub-panel 1 Sub-panel 1	32	0.6	0.7	NO NO	-	NO NO		-	NO NO	ND ND ND	ND ND	ND ND ND	ND ND ND	ND ND	-1.	9 15	-0.4 -0.4	NO NO	ND ND ND
2107-933 2107-934 2107-935	Sub-panel 1 Sub-panel 1 Sub-panel 1	33	0.2	0.2	NO NO	- :	ND ND			ND ND	ND ND	ND ND	ND	ND ND	ND	-0. 0.	9 -0.4	-0.4	ND ND ND ND	ND
2HV-835	Sub-panel 1																			
2107-936	Sub-panel 1	<0.5		- 1	ND ND		ND ND			ND ND ND	ND ND ND	ND ND	NO NO	NO NO	ND ND	1. -0.	0.5	-0.4	ND ND	ND ND ND
21KV-826 21KV-827 21KV-828	Sub-panel 1 Sub-panel 1 Sub-panel 2	<0.5 35 <0.5 58	-	-	ND ND ND		NO NO NO			ND ND ND	ND ND	ND ND ND	ND ND ND	ND ND	ND ND	1. -0. 0. 0.	0.5 0.4 0.4 0.4	-0.4	NO NO	ND ND
2101-836 2101-837 2101-838 2101-926 2101-927 2101-928	Sub-panel 1 Sub-panel 2 Sub-panel 3 Sub-panel 3 Sub-panel 3 Sub-panel 3	40.5 30.5 40.5 58 44 33 45	-		NO NO NO NO NO NO		NO NO NO NO NO NO NO NO NO			NO NO NO NO NO	NO NO NO NO NO	ND ND ND ND ND ND	ND ND ND ND ND	NO NO NO NO NO	NO NO NO NO	1 -0 0 -0 -0 -0	0.05 0.04 0.05 0.05 0.04 0.04 0.04 0.04	-0.4 -0.4 -0.4 -0.4	NO NO NO NO NO	ND ND ND ND ND ND ND ND
280-936 280-938 280-936 280-937 280-932 280-939 280-939 280-939	Sub-panel 1 Sub-panel 2 Sub-panel 3 Sub-panel 3 Sub-panel 3 Sub-panel 3 Sub-panel 3 Sub-panel 3	40.5 35 40.5 38 44 33 45 3	-		NO N		NO NO NO NO NO			NO N	NO N	ND N	ND ND ND ND ND ND ND	NO N	NO NO NO NO NO NO	1. -0. 0. 0. -0. -0. 0. 1.	4 -0.4 3 -0.4 2 -0.4 1 -0.4 7 -0.4	- 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1	NO N	ND
200-926 200-927 200-926 200-926 200-927 200-929 200-929 200-930 200-931	Sub-panel 1 Sub-panel 2 Sub-panel 3	40.5 315 40.5 318 444 313 45 319 319 319 319 319 319 319 319 319 319			NO NO NO NO NO NO		NO NO NO NO NO NO NO NO NO			NO NO NO NO NO	NO NO NO NO NO	ND ND ND ND ND ND	NO NO NO NO NO NO	NO NO NO NO NO NO	NO N	1. -0. 0. -0. -0. 0. 1. 0. 0.	0.4 3 -0.4 2 -0.4 1 -0.4	-0.1 -0.1 -0.1 -0.1	ND ND ND ND ND ND	ND ND ND ND ND ND
2104-926 2104-927 2104-928 2104-926 2104-927 2104-929 2104-929 2104-92 2104-92 2104-92 2104-92 2104-92 2104-92	Sub-panel 1 Sub-panel 2 Sub-panel 3	405 333 403 354 444 333 453 30 20 20 21 22 22 23	-		NO N		NO N			NO N	NO N	NO N	NO N	NO N	NO N	10000000000	-0.4 -0.4 -0.4 -0.4 -0.4 -0.4 -0.4 -0.4	-0.4 -0.4 -0.4 -0.4 -0.4 -0.4 -0.4 -0.4	NO N	ND N
200-936 2 200-937 200-	Sub-panel 1 Sub-panel 2 Sub-panel 3	40.5 33 34.5 40.5 44.4 32 45.5 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	-		NO N		NO N			NO N	NO N	NO N	NO N	NO N	NO N	1 -0.	4 -0.4 3 -0.4 2 -0.4 1 -0.4 7 -0.4	-0.4 -0.4 -0.4 -0.4 -0.4 -0.4	NO N	ND N
2004-0362 2004-0372 2004-038 2004-035 2004-035 2004-037 2004-037 2004-037 2004-037 2004-037 2004-037 2004-038 2004-038 2004-038 2004-038 2004-038 2004-038 2004-038 2004-038 2004-038	Sub-panel 1 Sub-panel 2 Sub-panel 3	67 28 22 42 42 34	-		NO N		NO N			NO N	NO N	NO N	NO N	NO N	NO N	10000000000	-0.4 -0.4 -0.4 -0.4 -0.4 -0.4 -0.4 -0.4	-0.4 -0.4 -0.4 -0.4 -0.4 -0.4 -0.4 -0.4	100 100 100 100 100 100 100 100 100 100	NO N
2004-0307 2004-0337 2004-0338 2004-0327 2004-0338 2004-0327 2004-032 2004-042 2004-042	Sub-parel 1 Sub-parel 2 Sub-parel 3	67 28 22 42 42 34	3.5	3.0	NO N		NO N			NO N	NO N	NO N	NO N	NO N	NO N	10000000000	-0.4 -0.4 -0.4 -0.4 -0.4 -0.4 -0.4 -0.4	-0.4	100 100 100 100 100 100 100 100 100 100	NO N
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200-056 200-05	Sub-pared 1 Sub-pared 2 Sub-pared 3 Sub-pa	67 28 22 42 42 34	3.5	3.0	100 100 100 100 100 100 100 100 100 100		160 160 160 160 160 160 160 160 160 160			100 100 100 100 100 100 100 100 100 100	100 100 100 100 100 100 100 100 100 100	NO N	NO N	NO N	NO N	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1	100 100 100 100 100 100 100 100 100 100	10 10 10 10 10 10 10 10 10 10 10 10 10 1
200-046 200-04	Sub-pared 1 Sub-pared 2 Sub-pared 3 Sub-pared 4 Sub-pared 4 Sub-pared 4 Sub-pared 4 Sub-pared 5 Sub-pa	67 28 22 42 42 34	3.5	3.0	NO N		160 160 160 160 160 160 160 160 160 160	***************************************		100 100 100 100 100 100 100 100 100 100	100 100 100 100 100 100 100 100 100 100	NO N	NO N	NO N	NO N	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			100 100 100 100 100 100 100 100 100 100	10 10 10 10 10 10 10 10 10 10 10 10 10 1
200-016 200-01	Sub-parent 1 Sub-parent 2 Sub-parent 3	67 28 22 42 42 34	3.5	3.0	100 100 100 100 100 100 100 100 100 100		160 160 160 160 160 160 160 160 160 160	***************************************	***************************************	100 100 100 100 100 100 100 100 100 100	100 100 100 100 100 100 100 100 100 100	NO N	100 100 100 100 100 100 100 100 100 100	100 100 100 100 100 100 100 100 100 100	160 160 160 160 160 160 160 160 160 160	1. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	60 100 100 100 100 100 100 100 100 100 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1
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200-016 200-01	Sub-parent 1 Sub-parent 2 Sub-parent 2 Sub-parent 3	22 22 22 22 22 22 22 22 22 22 22 22 22	3.5	3.0	100 100 100 100 100 100 100 100 100 100		160 160 160 160 160 160 160 160 160 160			10 10 10 10 10 10 10 10	100 100 100 100 100 100 100 100 100 100	NO N	100 100 100 100 100 100 100 100 100 100	MO M	160 160 160 160 160 160 160 160 160 160	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 de	100 100 100 100 100 100 100 100 100 100	10 10 10 10 10 10 10 10 10 10 10 10 10 1
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2100-1001	Sub-panel 3	55	3.2	1.2	ND	+	ND ND	+	+	+	+	ND	97	ND	1,666	0.8	1.1 2.1	ND ND	ND
ZHV-1002	Sub-panel 3	4			ND ND		ND			ND ND	ND ND	ND	ND ND	ND	ND.	-1.2	2.4 -0.4	ND ND	ND
21KV-1003	Sub-panel 3	36			ND ND		ND			ND ND	ND ND	ND	ND ND	ND	ND.	-0.5	2.4 -0.4	ND ND	ND
ZIKV-1004	Sub-panel 3	<0.5			ND ND		ND			ND ND	ND ND	ND	ND ND	ND	ND.	0.2	15 -0.4	ND ND	ND
21101-1005	Sub-panel 3	<0.5			ND ND		ND ND			ND ND	ND	ND	ND ND	ND	ND ND	-1.0	15 -0.4	ND ND	ND
2100-1006	Sub-panel 3	49	4.0	3.5	117	+	ND	+	+	+	+	42	75	334	284	0.8	2.7 2.1	128	138
ZHAV-1007	Sub-panel 3	70	3.8	2.2	Unknown	+	ND	+	+	+	+	382	202	1,820	534	0.5	1.6	1,100	426
2HV-839	Sub-panel 1	57		-	ND ND	-	ND ND			ND ND	ND ND	ND ND	ND ND	ND	ND	-1.2	2.4 -0.4	ND ND	ND
2IKV-840	Sub-panel 1		4.0	3.6	ND ND		ND			ND ND	ND ND	ND	ND ND	ND	ND.	-0.6	15 1.	ND ND	ND
2IXV-898	Sub-panel 1	26			ND ND		ND			ND ND	ND ND	ND	ND ND	ND	ND.	-1.7	2.4 -0.4	ND ND	ND
2IKV-904	Sub-panel 1	83			ND ND		ND			ND ND	ND ND	ND	ND ND	ND	ND.	-1.4	2.4 -0.4	ND ND	ND

- * mAbs were isolated by indicated B cell labeling and sorting approach. Sub-panel 1 labeling with biotinylated E; Sub-panel 2 labeling with intact E followed by detection with fusion loop-specific mAb; labeling and detection is the same as for Sub-panel 2 and sorting of high-affinity population only. ND not determined when cells were pooled from different sorting approaches for the analysis.
- ** Total volume of each purified mAb was 100 μ L. The limit of IgG detection was 5 μ g/mL, and the amount mAbs that could not be detected by the assay used is indicated as <0.5 μ g.
- *** O.D. 450 nm of 0.3 (three-fold over the negative control) was set as a threshold for mAb reactivity, and non-reactive mAbs are indicated with "-" symbol.
- **** mAbs of known epitope specificity included ZIKV-88 (recognizes FL), ZIKV-116 (recognizes DIII), and ZIKV-117 (recognizes DII) as from a previous report¹.
- ***** Each mAb was tested in a single dilution from micro-scale purified samples and mAb concentration was not normalized. Z-score (z) = $(x-\mu)/\sigma$, where x is raw score that determined as described in the **Methods**, μ is the mean of the population, and σ is the standard deviation of the population.
- ND not determined. "-" symbol indicates neutralizing activity was not detected at the highest tested mAb concentration, 3,000 ng/mL.

Supplementary Table 3. Inferred antibody germline genes and variable region analysis of selected lead candidates that tested *in vivo* in mice.

		He	avy chain v	ariable gene sequence		L	ight chain v	ariable gene sequence	
mAb clone	V-gene and allele	D-gene and allele	J-gene and allele	CDR3 amino acid sequence	Percent identity of germline	V-gene and allele	J-gene and allele	CDR3 amino acid sequence	Percent identity of germline
ZIKV-423	3-23*01	3-10*01	4*02	AKDRTSGGFGELFKH	89	1-5*03	1*01	QHYHSYPWT	95
ZIKV-434	3-48*03	3-3*01	4*02	ARDRYDFWSGDPMGYFDY	92	1-5*03	1*01	QQYNRGSWT	94
ZIKV-518	2-5*01	6-13*01	5*02	AHTVLVSRNWYVLNWFDP	97	2-14*01	1*01	QVWDDSSDQWV	98
ZIKV-608	3-23*04	3-10*01	4*02	AKDRPSLGVGELYDY	91	1-5*03	J1*01	QQYNSYPWT	100
ZIKV-609	3-23*01	6-19*01	4*02	AKDHPQWLGSHE	94	3-21*02	J1*01	QVWDSTRDQYV	98
ZIKV-624	3-11*05	2-2*02	6*03	ARDRRLYTPYYHYYMDV	98	1-44*01	J3*02	AAWDDSLNGRV	98
ZIKV-635	3-30*18	6-13*01	3*02	AKDSAGRRWQQLSAGI	97	2-28*01	J1*01	MQALQTPWT	99
ZIKV-652	3-23*01	6-19*01	4*02	AKVIDQWLGFDY	97	3-21*02	J3*02	QVWDSSSDQWV	99
ZIKV-668	3-49*05	3/15- 3a*01	5*02	TRDFNDFWTGHHPNWFDP	98	1-39*01	1*01	QQSYSIPRT	99
ZIKV-681	3-23*04	3-10*01	4*02	AKDRVVRGVGENLDH	89	1-27*01	1*01	QKYNSVPWT	92
ZIKV-682	3-30*18	1-26*01	4*02	AKEREWEVRDGGFDY	97	3-21*02	2*01	QVWHSNTDHVV	98
ZIKV-684	3-73*01	3-22*01	4*02	IRQGGYYESSEFDY	96	1-40*01	2*01	QSYDSSLTVHVV	98
ZIKV-752	1-8*01	6-19*01	6*02	ARVTSGSSYGTTYYYYYAMDV	96	1-47*01	3*02	ASWDDRLSGSWV	97
ZIKV-869	3-13*01	2-2*01	6*02	ARVAHHSEYHLLYMPHGMDV	96	2-23*01	3*02	CSYTDNSPYVL	97
ZIKV-893	3-30*18, 3-30-5*01	3-16*02	4*02	AKVGSHYYDYIWGTYRRFDY	97	1-39*01	3*01	QQYGSSPPVT	100
ZIKV-922	3-23*04	3-10*01	4*02	AKDRPSRGVGELYDY	92	1-5*03	J1*01	QQYLSYPWT	95
ZIKV-940	4-59*01	6-19*01	4*02	ARDCASGWDGCDF	96	1-44*01	1*01	AAWDDSLNGYV	99
ZIKV-980	3-30*04	6-19*01	6*02	VRDRKVAGQMIRHGMDV	96	8-61*01	3*02	TLYMGSGISV	98
ZIKV-1006	3-33*01	3-10*01	3*02	ARVGVRGADDAFDI	94	3-21*02	3*02	QVWDSNSDHGV	97
ZIKV-1007	3-9*01	4-17*01	4*02	AKTKAYGDFHFDY	97	3-21*02	2*01	QLWDTSSNPHVV	98

Supplementary Table 4. Efficacy of mAb-encoding RNA formulation and IgG protein treatment against ZIKV *in vivo* in mice.

			IgG protei	n treatment, #	survived/treat	ted mice (% s	urvival)	
mAb clone	Prophylatic RNA treatment, # survived/treated		Prophylaxi	s dose per mo	use, d-1		Treatmen mouse	t dose per , 1 dpi
	mice (% survival)	70 μg	9 μg	4.5 μg	2 μg	1 μg	9 μg	4.5 μg
ZIKV-423	2/5 (40%)	ND	ND	ND	ND	ND	ND	ND
ZIKV-434	5/5 (100%)	1/5 (20%)	ND	ND	ND	ND	ND	ND
ZIKV-518	0/5(0%)	ND	ND	ND	ND	ND	ND	ND
ZIKV-608	0/5 (0%)	ND	ND	ND	ND	ND	ND	ND
ZIKV-609	5/5 (100%)	ND	2/5 (40%)	ND	ND	ND	ND	ND
ZIKV-624	5/5 (100%)	ND	3/5 (60%)	ND	ND	ND	ND	ND
ZIKV-635	5/5 (100%)	5/5 (100%)	5/5 (100%)	ND	ND	ND	ND	ND
ZIKV-652	5/5 (100%)	ND	ND	ND	ND	ND	ND	ND
ZIKV-668	5/5 (100%)	4/5 (80%)	5/5 (100%)	ND	ND	ND	ND	ND
ZIKV-681	2/5 (40%)	ND	ND	ND	ND	ND	ND	ND
ZIKV-682	4/5 (80%)	ND	ND	ND	ND	ND	ND	ND
ZIKV-684	5/5 (100%)	ND	ND	ND	ND	ND	ND	ND
ZIKV-752	4/5 (80%)	5/5 (100%)	11/14 (79%)	7/9 (78%)	2/4 (50%)	2/4 (50%)	3/5 (60%)	3/5 (60%)
ZIKV-869	2/5 (40%)	ND	4/5 (80%)	ND	ND	ND	ND	ND
ZIKV-893	5/5 (100%)	5/5 (100%)	14/14 (100%)	4/4 (100%)	4/4 (100%)	0/4 (0%)	5/5 (100%)	4/5 (80%)
ZIKV-922	0/5 (0%)	ND	ND	ND	ND	ND	ND	ND
ZIKV-940	5/5 (100%)	ND	9/13 (69%)	3/4 (75%)	2/4 (50%)	2/4 (50%)	5/5 (100%)	4/5 (80%)
ZIKV-980	1/5 (20%)	ND	0/5 (0%)	ND	ND	ND	ND	ND
ZIKV-1006	0/5 (0%)	ND	1/5 (20%)	ND	ND	ND	ND	ND
ZIKV-1007	0/5 (0%)	ND	ND	ND	ND	ND	ND	ND
ZIKV-117 control	5/5 (100%)	ND	14/14 (100%)	9/9 (100%)	3/4 (75%)	0/4 (0%)	4/5 (80%)	5/5 (100%)
FLU-5J8 control	1/5 (0%)	2/5 (40%)	0/5 (0%)	ND	ND	ND	1/5 (20%)	1/5 (20%)
PBS control	1/5 (0%)	ND	ND	1/4 (25%)	1/4 (25%)	1/4 (25%)	ND	ND

References for Supplementary Information.

1. Sapparapu, G. *et al.* Neutralizing human antibodies prevent Zika virus replication and fetal disease in mice. *Nature* **540**, 443-447 (2016).