

Class 19

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Background

Pertussis (a.k.a Whooping Cough) is a highly infectious lung infection caused by the bacteria *B. pertussis*.

The CDC tracks case numbers in the US and makes this data available online:

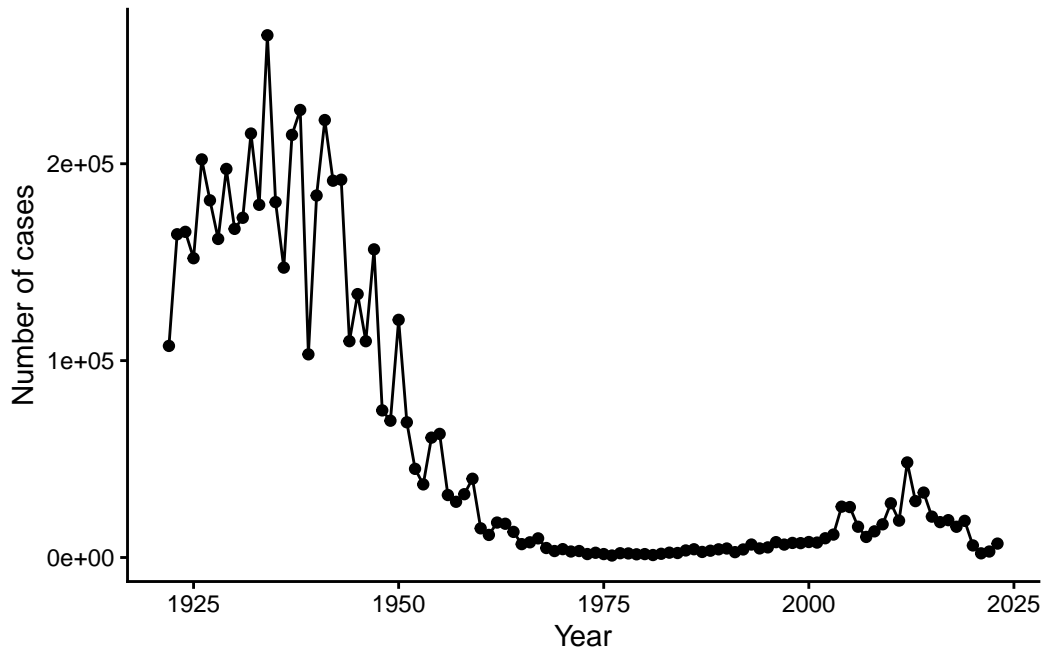
Q1. With the help of the R “addin” package datapasta assign the CDC pertussis case number data to a data frame called cdc and use ggplot to make a plot of cases numbers over time.

```
library(ggplot2)
```

Warning: package 'ggplot2' was built under R version 4.5.2

```
cdcgraph <- ggplot(cdc) +
  aes(year, cases) +
  geom_point() +
  geom_line() +
  labs(x="Year",y="Number of cases") +
  theme_classic()

cdcgraph
```

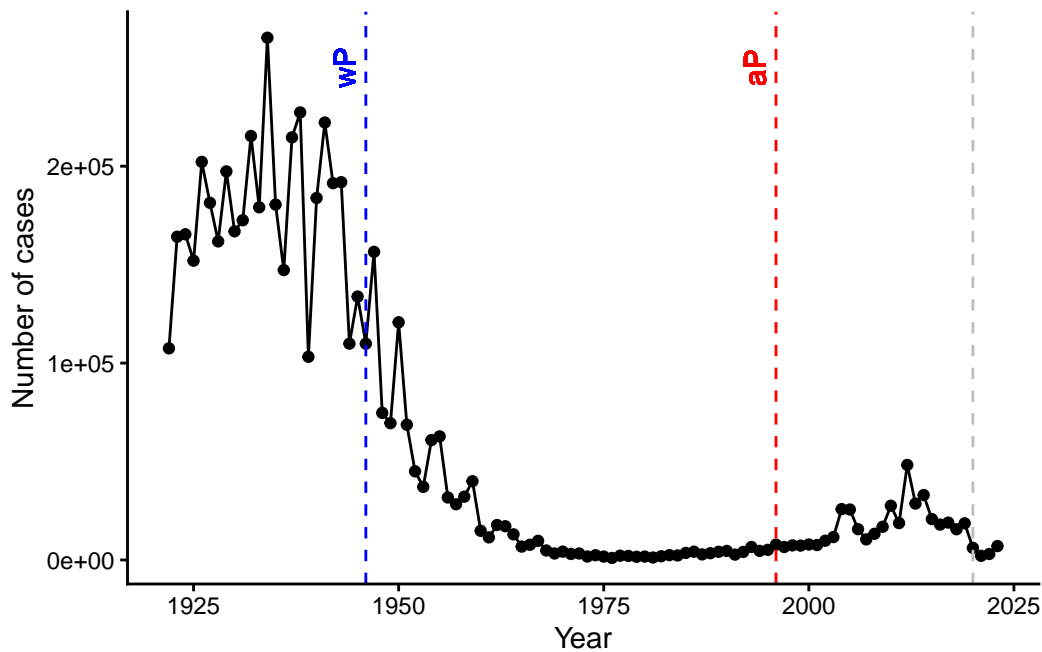


Q2. Using the ggplot `geom_vline()` function add lines to your previous plot for the 1946 introduction of the wP vaccine and the 1996 switch to aP vaccine (see example in the hint below). What do you notice?

```
cdcgraph +
  geom_vline(xintercept = 1946, linetype="dashed", color = "blue") +
  geom_vline(xintercept = 1996, linetype="dashed", color = "red") +
  geom_vline(xintercept = 2020, linetype="dashed", color = "grey") +
  geom_text(aes(x=1946, y=250000, label="wP"),
    angle=90, vjust = -0.5, color="blue") +
  geom_text(aes(x=1996, y=250000, label="aP"),
    angle=90, vjust = -0.5, color="red")
```

Warning in geom_text(aes(x = 1946, y = 250000, label = "wP"), angle = 90, : All aesthetics have been overridden. Please consider using `annotate()` or provide this layer with data containing a single row.

Warning in geom_text(aes(x = 1996, y = 250000, label = "aP"), angle = 90, : All aesthetics have been overridden. Please consider using `annotate()` or provide this layer with data containing a single row.



Q3. Describe what happened after the introduction of the aP vaccine? Do you have a possible explanation for the observed trend?

Maybe the vaccine wasn't as effective as hoped, or there were changes in vaccination rates, pathogen evolution, or reporting practices. Further investigation would be needed to determine the exact cause.

The CMI-PB Project

The CMI-PB project is a collaboration between researchers at UCSD and the Scripps Institution of Oceanography to study the microbial communities in the coastal waters of Southern California. The project involves collecting water samples from various locations along the coast and analyzing the microbial DNA using high-throughput sequencing techniques.

They make their data available via a JSON format running API. We can read JSON format with the `read_json` function from the `jsonlite` R package..

```
library(jsonlite)
subject <- read_json("https://www.cmi-pb.org/api/subject", simplifyVector = TRUE)
head(subject, 3)
```

	subject_id	infancy_vac	biological_sex	ethnicity	race
1	1	wP	Female	Not Hispanic or Latino	White
2	2	wP	Female	Not Hispanic or Latino	White
3	3	wP	Female	Unknown	White

	year_of_birth	date_of_boost	dataset
1	1986-01-01	2016-09-12	2020_dataset
2	1968-01-01	2019-01-28	2020_dataset
3	1983-01-01	2016-10-10	2020_dataset

Q4. How many aP and wP infancy vaccinated subjects are in the dataset?

```
table(subject$infancy_vac)
```

```
aP wP
87 85
```

```
subject$infancy_vac
```

```
[1] "wP" "wP" "wP" "wP" "wP" "wP" "wP" "wP" "aP" "wP" "wP" "wP" "aP" "wP" "wP"
[16] "wP" "wP" "aP" "wP" "wP" "wP" "wP" "wP" "wP" "wP" "wP" "aP" "wP" "aP" "wP"
[31] "wP" "aP" "wP" "wP" "wP" "aP" "aP" "aP" "wP" "wP" "wP" "aP" "aP" "aP" "aP"
[46] "aP" "aP" "aP" "aP" "aP" "aP" "aP" "aP" "aP" "aP" "aP" "aP" "aP" "aP" "aP"
[61] "wP" "wP" "wP" "wP" "wP" "wP" "wP" "wP" "wP" "aP" "aP" "wP" "wP" "wP" "aP"
[76] "aP" "wP" "wP" "wP" "wP" "wP" "aP" "aP" "aP" "aP" "aP" "aP" "aP" "aP" "aP"
[91] "aP" "aP" "aP" "aP" "aP" "aP" "wP" "wP" "aP" "aP" "aP" "aP" "wP" "wP" "wP"
[106] "aP" "aP" "wP" "wP" "aP" "wP" "aP" "aP" "wP" "aP" "aP" "aP" "aP" "aP" "wP"
[121] "aP" "aP" "wP" "aP" "wP" "wP" "aP" "wP" "wP" "wP" "aP" "wP" "aP" "wP" "wP"
[136] "wP" "aP" "aP" "wP" "aP" "wP" "aP" "aP" "aP" "aP" "wP" "aP" "wP" "wP" "wP"
[151] "wP" "wP" "aP" "aP" "aP" "aP" "aP" "aP" "wP" "aP" "aP" "aP" "wP" "wP" "wP"
[166] "aP" "aP" "wP" "aP" "wP" "wP" "wP"
```

Q5. How many Male and Female subjects/patients are in the dataset?

```
table(subject$biological_sex)
```

```
Female    Male
    112     60
```

Q6. What is the breakdown of race and biological sex (e.g. number of Asian females, White males etc...)?

```
table(subject$race, subject$biological_sex)
```

	Female	Male
American Indian/Alaska Native	0	1
Asian	32	12
Black or African American	2	3
More Than One Race	15	4
Native Hawaiian or Other Pacific Islander	1	1
Unknown or Not Reported	14	7
White	48	32

Let's read more tables

```
library(jsonlite)
specimen <- read_json("https://www.cmi-pb.org/api/v5_1/specimen", simplifyVector = TRUE)
ab_titer <- read_json("https://www.cmi-pb.org/api/v5_1/plasma_ab_titer", simplifyVector = TRUE)
```

Working with Dates

Q7. Using this approach determine (i) the average age of wP individuals, (ii) the average age of aP individuals; and (iii) are they significantly different?

```
library(lubridate)
```

Warning: package 'lubridate' was built under R version 4.5.2

Attaching package: 'lubridate'

The following objects are masked from 'package:base':

date, intersect, setdiff, union

```
library(dplyr)
```

Attaching package: 'dplyr'

The following objects are masked from 'package:stats':

filter, lag

The following objects are masked from 'package:base':

intersect, setdiff, setequal, union

```
subject$age <- today() - ymd(subject$year_of_birth)
```

```
# (i)
```

```
ap <- subject %>% filter(infancy_vac == "aP")  
round(summary(time_length(ap$age, "years" )))
```

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
23	27	28	28	29	35

```
# (ii)
```

```
wp <- subject %>% filter(infancy_vac == "wP")  
round(summary(time_length(wp$age, "years")))
```

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
23	33	35	37	40	58

```
# (iii)
```

```
t.test(ap$age, wp$age)
```

Welch Two Sample t-test

```
data: ap$age and wp$age
t = -12.918 days, df = 104.03, p-value < 2.2e-16
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 -3686.855 days -2705.535 days
sample estimates:
Time differences in days
mean of x mean of y
 10165.28  13361.47
```

- i) 28
- ii) 37
- iii) yes, significantly different (p 2.2e-16)

Q8. Determine the age of all individuals at time of boost?

```
subject$boost_age <- ymd(subject$date_of_boost) - ymd(subject$year_of_birth)
round(head(time_length(subject$boost_age,"years")))
```

```
[1] 31 51 34 29 26 29
```

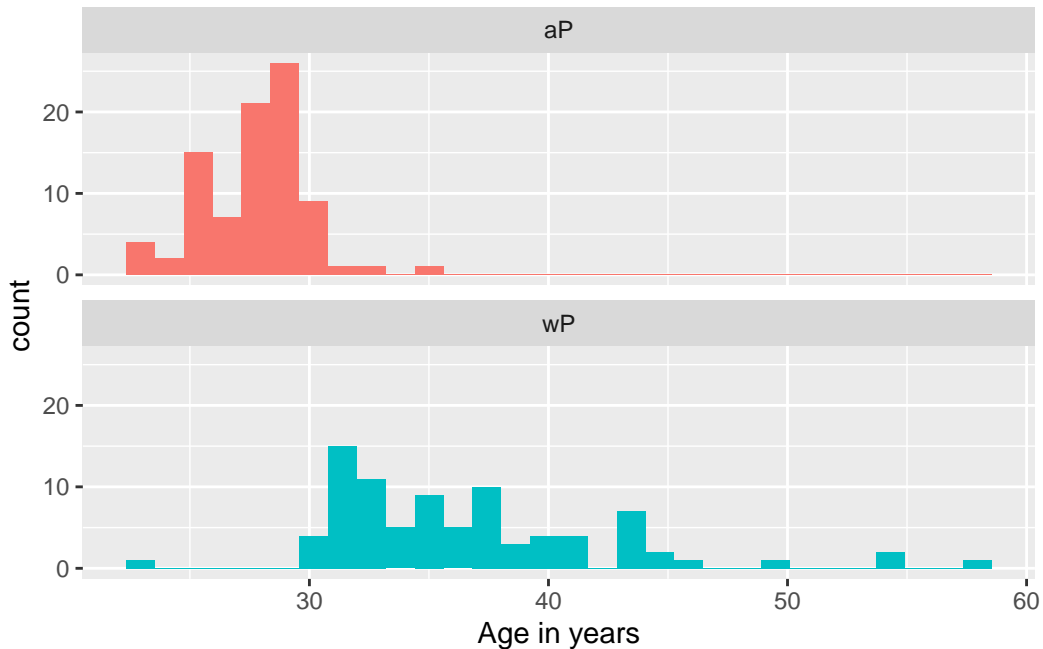
```
round(summary(time_length(subject$boost_age,"years")))
```

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
19	21	26	26	30	51

Q9a. With the help of a faceted boxplot or histogram, do you think these two groups are significantly different?

```
ggplot(subject) +
  aes(time_length(age, "year"),
       fill=as.factor(infancy_vac)) +
  geom_histogram(show.legend=FALSE) +
  facet_wrap(vars(infancy_vac), nrow=2) +
  xlab("Age in years")
```

`stat_bin()` using `bins = 30`. Pick better value `binwidth`.



I think they are significantly different!

Join (or link, or merge) using the

Q9b. Complete the code to join specimen and subject tables to make a new merged data frame containing all specimen records along with their associated subject details: Q10. Now using the same procedure join meta with titer data so we can further analyze this data in terms of time of visit aP/wP, male/female etc.

```
library(dplyr)

meta <- inner_join(subject, specimen)
```

Joining with `by = join_by(subject_id)`

```
head(meta)
```

	subject_id	infancy_vac	biological_sex	ethnicity	race
1	1	wP	Female	Not Hispanic or Latino	White
2	1	wP	Female	Not Hispanic or Latino	White
3	1	wP	Female	Not Hispanic or Latino	White
4	1	wP	Female	Not Hispanic or Latino	White
5	1	wP	Female	Not Hispanic or Latino	White

	1	wP	Female Not Hispanic or Latino White			
	year_of_birth	date_of_boost	dataset	age	boost_age	specimen_id
1	1986-01-01	2016-09-12	2020_dataset	14586 days	11212 days	1
2	1986-01-01	2016-09-12	2020_dataset	14586 days	11212 days	2
3	1986-01-01	2016-09-12	2020_dataset	14586 days	11212 days	3
4	1986-01-01	2016-09-12	2020_dataset	14586 days	11212 days	4
5	1986-01-01	2016-09-12	2020_dataset	14586 days	11212 days	5
6	1986-01-01	2016-09-12	2020_dataset	14586 days	11212 days	6
	actual_day_relative_to_boost	planned_day_relative_to_boost	specimen_type			
1		-3			0	Blood
2		1			1	Blood
3		3			3	Blood
4		7			7	Blood
5		11			14	Blood
6		32			30	Blood
	visit					
1	1					
2	2					
3	3					
4	4					
5	5					
6	6					

```
ab_data <- inner_join(meta,ab_titer)
```

Joining with `by = join_by(specimen_id)`

```
head(ab_data)
```

	subject_id	infancy_vac	biological_sex	ethnicity	race	
1	1	wP	Female Not Hispanic or Latino White			
2	1	wP	Female Not Hispanic or Latino White			
3	1	wP	Female Not Hispanic or Latino White			
4	1	wP	Female Not Hispanic or Latino White			
5	1	wP	Female Not Hispanic or Latino White			
6	1	wP	Female Not Hispanic or Latino White			
	year_of_birth	date_of_boost	dataset	age	boost_age	specimen_id
1	1986-01-01	2016-09-12	2020_dataset	14586 days	11212 days	1
2	1986-01-01	2016-09-12	2020_dataset	14586 days	11212 days	1
3	1986-01-01	2016-09-12	2020_dataset	14586 days	11212 days	1
4	1986-01-01	2016-09-12	2020_dataset	14586 days	11212 days	1

```

5   1986-01-01    2016-09-12 2020_dataset 14586 days 11212 days      1
6   1986-01-01    2016-09-12 2020_dataset 14586 days 11212 days      1
  actual_day_relative_to_boost planned_day_relative_to_boost specimen_type
1              -3              0          Blood
2              -3              0          Blood
3              -3              0          Blood
4              -3              0          Blood
5              -3              0          Blood
6              -3              0          Blood
  visit isotype is_antigen_specific antigen      MFI MFI_normalised unit
1     1     IgE           FALSE   Total 1110.21154    2.493425 UG/ML
2     1     IgE           FALSE   Total 2708.91616    2.493425 IU/ML
3     1     IgG            TRUE     PT   68.56614    3.736992 IU/ML
4     1     IgG            TRUE     PRN 332.12718    2.602350 IU/ML
5     1     IgG            TRUE     FHA 1887.12263   34.050956 IU/ML
6     1     IgE            TRUE     ACT   0.10000    1.000000 IU/ML
  lower_limit_of_detection
1          2.096133
2          29.170000
3           0.530000
4          6.205949
5          4.679535
6          2.816431

```

Q11. How many specimens (i.e. entries in abdata) do we have for each isotype?

```
head(ab_data$isotype)
```

```
[1] "IgE" "IgE" "IgG" "IgG" "IgG" "IgE"
```

How many different antigens are there in the dataset?

```
unique(ab_data$antigen)
```

```

[1] "Total"  "PT"      "PRN"     "FHA"     "ACT"     "LOS"     "FELD1"
[8] "BETV1"  "LOLP1"   "Measles" "PTM"     "FIM2/3"  "TT"      "DT"
[15] "OVA"    "PD1"

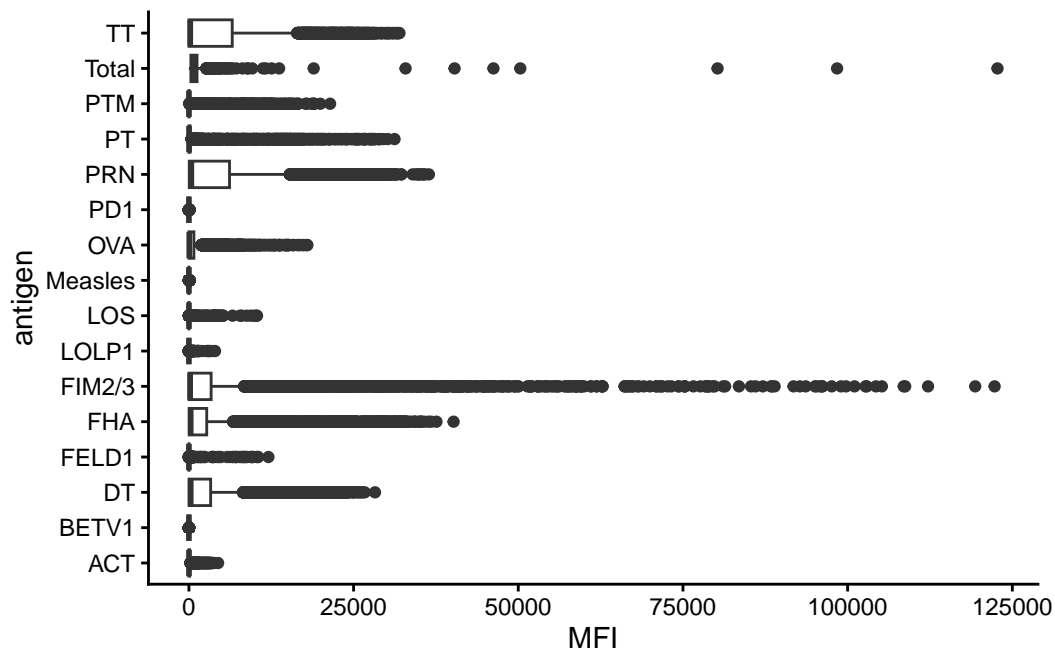
```

```

ggplot(ab_data) +
  aes(MFI,antigen) +
  geom_boxplot() +
  theme_classic()

```

Warning: Removed 1 row containing non-finite outside the scale range
(`stat_boxplot()`).



Q12. What are the different `$dataset` values in `abdata` and what do you notice about the number of rows for the most “recent” dataset?

```
table(ab_data$dataset)
```

```
2020_dataset 2021_dataset 2022_dataset 2023_dataset
      31520       8085       7301      15050
```

There’s a lot more rows in the most recent dataset!

Focus in IgG

IgG is crucial for long-term immunity and responding to bacterial and viral infections

```
ab_data |>
  filter(isotype == "IgG") -> igg_data
igg_data
```

	subject_id	infancy_vac	biological_sex	ethnicity
1	1	wP	Female Not Hispanic or Latino	
2	1	wP	Female Not Hispanic or Latino	
3	1	wP	Female Not Hispanic or Latino	
4	1	wP	Female Not Hispanic or Latino	
5	1	wP	Female Not Hispanic or Latino	
6	1	wP	Female Not Hispanic or Latino	
7	1	wP	Female Not Hispanic or Latino	
8	1	wP	Female Not Hispanic or Latino	
9	1	wP	Female Not Hispanic or Latino	
10	1	wP	Female Not Hispanic or Latino	
11	1	wP	Female Not Hispanic or Latino	
12	1	wP	Female Not Hispanic or Latino	
13	1	wP	Female Not Hispanic or Latino	
14	1	wP	Female Not Hispanic or Latino	
15	1	wP	Female Not Hispanic or Latino	
16	1	wP	Female Not Hispanic or Latino	
17	1	wP	Female Not Hispanic or Latino	
18	1	wP	Female Not Hispanic or Latino	
19	1	wP	Female Not Hispanic or Latino	
20	1	wP	Female Not Hispanic or Latino	
21	1	wP	Female Not Hispanic or Latino	
22	3	wP	Female	Unknown
23	3	wP	Female	Unknown
24	3	wP	Female	Unknown
25	3	wP	Female	Unknown
26	3	wP	Female	Unknown
27	3	wP	Female	Unknown
28	3	wP	Female	Unknown
29	3	wP	Female	Unknown
30	3	wP	Female	Unknown
31	3	wP	Female	Unknown
32	3	wP	Female	Unknown
33	3	wP	Female	Unknown
34	3	wP	Female	Unknown
35	3	wP	Female	Unknown
36	3	wP	Female	Unknown
37	3	wP	Female	Unknown
38	3	wP	Female	Unknown
39	3	wP	Female	Unknown
40	3	wP	Female	Unknown
41	3	wP	Female	Unknown
42	3	wP	Female	Unknown

43	4	wP	Male Not Hispanic or Latino
44	4	wP	Male Not Hispanic or Latino
45	4	wP	Male Not Hispanic or Latino
46	4	wP	Male Not Hispanic or Latino
47	4	wP	Male Not Hispanic or Latino
48	4	wP	Male Not Hispanic or Latino
49	4	wP	Male Not Hispanic or Latino
50	4	wP	Male Not Hispanic or Latino
51	4	wP	Male Not Hispanic or Latino
52	4	wP	Male Not Hispanic or Latino
53	4	wP	Male Not Hispanic or Latino
54	4	wP	Male Not Hispanic or Latino
55	4	wP	Male Not Hispanic or Latino
56	4	wP	Male Not Hispanic or Latino
57	4	wP	Male Not Hispanic or Latino
58	4	wP	Male Not Hispanic or Latino
59	4	wP	Male Not Hispanic or Latino
60	4	wP	Male Not Hispanic or Latino
61	4	wP	Male Not Hispanic or Latino
62	4	wP	Male Not Hispanic or Latino
63	4	wP	Male Not Hispanic or Latino
64	5	wP	Male Not Hispanic or Latino
65	5	wP	Male Not Hispanic or Latino
66	5	wP	Male Not Hispanic or Latino
67	5	wP	Male Not Hispanic or Latino
68	5	wP	Male Not Hispanic or Latino
69	5	wP	Male Not Hispanic or Latino
70	5	wP	Male Not Hispanic or Latino
71	5	wP	Male Not Hispanic or Latino
72	5	wP	Male Not Hispanic or Latino
73	5	wP	Male Not Hispanic or Latino
74	5	wP	Male Not Hispanic or Latino
75	5	wP	Male Not Hispanic or Latino
76	5	wP	Male Not Hispanic or Latino
77	5	wP	Male Not Hispanic or Latino
78	5	wP	Male Not Hispanic or Latino
79	5	wP	Male Not Hispanic or Latino
80	5	wP	Male Not Hispanic or Latino
81	5	wP	Male Not Hispanic or Latino
82	5	wP	Male Not Hispanic or Latino
83	5	wP	Male Not Hispanic or Latino
84	5	wP	Male Not Hispanic or Latino
85	6	wP	Female Not Hispanic or Latino

86	6	wP	Female Not Hispanic or Latino
87	6	wP	Female Not Hispanic or Latino
88	6	wP	Female Not Hispanic or Latino
89	6	wP	Female Not Hispanic or Latino
90	6	wP	Female Not Hispanic or Latino
91	6	wP	Female Not Hispanic or Latino
92	6	wP	Female Not Hispanic or Latino
93	6	wP	Female Not Hispanic or Latino
94	6	wP	Female Not Hispanic or Latino
95	6	wP	Female Not Hispanic or Latino
96	6	wP	Female Not Hispanic or Latino
97	6	wP	Female Not Hispanic or Latino
98	6	wP	Female Not Hispanic or Latino
99	6	wP	Female Not Hispanic or Latino
100	6	wP	Female Not Hispanic or Latino
101	6	wP	Female Not Hispanic or Latino
102	6	wP	Female Not Hispanic or Latino
103	6	wP	Female Not Hispanic or Latino
104	6	wP	Female Not Hispanic or Latino
105	6	wP	Female Not Hispanic or Latino
106	7	wP	Female Hispanic or Latino
107	7	wP	Female Hispanic or Latino
108	7	wP	Female Hispanic or Latino
109	7	wP	Female Hispanic or Latino
110	7	wP	Female Hispanic or Latino
111	7	wP	Female Hispanic or Latino
112	7	wP	Female Hispanic or Latino
113	7	wP	Female Hispanic or Latino
114	7	wP	Female Hispanic or Latino
115	7	wP	Female Hispanic or Latino
116	7	wP	Female Hispanic or Latino
117	7	wP	Female Hispanic or Latino
118	7	wP	Female Hispanic or Latino
119	7	wP	Female Hispanic or Latino
120	7	wP	Female Hispanic or Latino
121	7	wP	Female Hispanic or Latino
122	7	wP	Female Hispanic or Latino
123	7	wP	Female Hispanic or Latino
124	7	wP	Female Hispanic or Latino
125	7	wP	Female Hispanic or Latino
126	7	wP	Female Hispanic or Latino
127	9	aP	Male Not Hispanic or Latino
128	9	aP	Male Not Hispanic or Latino

129	9	aP	Male Not Hispanic or Latino
130	9	aP	Male Not Hispanic or Latino
131	9	aP	Male Not Hispanic or Latino
132	9	aP	Male Not Hispanic or Latino
133	9	aP	Male Not Hispanic or Latino
134	9	aP	Male Not Hispanic or Latino
135	9	aP	Male Not Hispanic or Latino
136	9	aP	Male Not Hispanic or Latino
137	9	aP	Male Not Hispanic or Latino
138	9	aP	Male Not Hispanic or Latino
139	9	aP	Male Not Hispanic or Latino
140	9	aP	Male Not Hispanic or Latino
141	9	aP	Male Not Hispanic or Latino
142	9	aP	Male Not Hispanic or Latino
143	9	aP	Male Not Hispanic or Latino
144	9	aP	Male Not Hispanic or Latino
145	9	aP	Male Not Hispanic or Latino
146	9	aP	Male Not Hispanic or Latino
147	9	aP	Male Not Hispanic or Latino
148	10	wP	Female Not Hispanic or Latino
149	10	wP	Female Not Hispanic or Latino
150	10	wP	Female Not Hispanic or Latino
151	10	wP	Female Not Hispanic or Latino
152	10	wP	Female Not Hispanic or Latino
153	10	wP	Female Not Hispanic or Latino
154	10	wP	Female Not Hispanic or Latino
155	10	wP	Female Not Hispanic or Latino
156	10	wP	Female Not Hispanic or Latino
157	10	wP	Female Not Hispanic or Latino
158	10	wP	Female Not Hispanic or Latino
159	10	wP	Female Not Hispanic or Latino
160	10	wP	Female Not Hispanic or Latino
161	10	wP	Female Not Hispanic or Latino
162	10	wP	Female Not Hispanic or Latino
163	10	wP	Female Not Hispanic or Latino
164	10	wP	Female Not Hispanic or Latino
165	10	wP	Female Not Hispanic or Latino
166	11	wP	Female Hispanic or Latino
167	11	wP	Female Hispanic or Latino
168	11	wP	Female Hispanic or Latino
169	11	wP	Female Hispanic or Latino
170	11	wP	Female Hispanic or Latino
171	11	wP	Female Hispanic or Latino

172	11	wP	Female	Hispanic or Latino
173	11	wP	Female	Hispanic or Latino
174	11	wP	Female	Hispanic or Latino
175	11	wP	Female	Hispanic or Latino
176	11	wP	Female	Hispanic or Latino
177	11	wP	Female	Hispanic or Latino
178	11	wP	Female	Hispanic or Latino
179	11	wP	Female	Hispanic or Latino
180	11	wP	Female	Hispanic or Latino
181	11	wP	Female	Hispanic or Latino
182	11	wP	Female	Hispanic or Latino
183	11	wP	Female	Hispanic or Latino
184	11	wP	Female	Hispanic or Latino
185	11	wP	Female	Hispanic or Latino
186	11	wP	Female	Hispanic or Latino
187	12	wP	Male Not	Hispanic or Latino
188	12	wP	Male Not	Hispanic or Latino
189	12	wP	Male Not	Hispanic or Latino
190	12	wP	Male Not	Hispanic or Latino
191	12	wP	Male Not	Hispanic or Latino
192	12	wP	Male Not	Hispanic or Latino
193	12	wP	Male Not	Hispanic or Latino
194	12	wP	Male Not	Hispanic or Latino
195	12	wP	Male Not	Hispanic or Latino
196	12	wP	Male Not	Hispanic or Latino
197	12	wP	Male Not	Hispanic or Latino
198	12	wP	Male Not	Hispanic or Latino
199	12	wP	Male Not	Hispanic or Latino
200	12	wP	Male Not	Hispanic or Latino
201	12	wP	Male Not	Hispanic or Latino
202	12	wP	Male Not	Hispanic or Latino
203	12	wP	Male Not	Hispanic or Latino
204	12	wP	Male Not	Hispanic or Latino
205	13	aP	Male Not	Hispanic or Latino
206	13	aP	Male Not	Hispanic or Latino
207	13	aP	Male Not	Hispanic or Latino
208	13	aP	Male Not	Hispanic or Latino
209	13	aP	Male Not	Hispanic or Latino
210	13	aP	Male Not	Hispanic or Latino
211	13	aP	Male Not	Hispanic or Latino
212	13	aP	Male Not	Hispanic or Latino
213	13	aP	Male Not	Hispanic or Latino
214	13	aP	Male Not	Hispanic or Latino

215	13	aP	Male Not Hispanic or Latino
216	13	aP	Male Not Hispanic or Latino
217	13	aP	Male Not Hispanic or Latino
218	13	aP	Male Not Hispanic or Latino
219	13	aP	Male Not Hispanic or Latino
220	13	aP	Male Not Hispanic or Latino
221	13	aP	Male Not Hispanic or Latino
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4529	2023_dataset	9473	days	8101	days	1105
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4539	2023_dataset	9473 days	8101 days	1107
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4541	2023_dataset	9473 days	8101 days	1107
4542	2023_dataset	9473 days	8101 days	1107
4543	2023_dataset	9473 days	8101 days	1108
4544	2023_dataset	9473 days	8101 days	1108
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	actual_day_relative_to_boost	planned_day_relative_to_boost	specimen_type
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7	3	IgG	TRUE	PT 5.963762e+01	3.25036934
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9	3	IgG	TRUE	FHA 5.729134e+02	10.33756213
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18	6	IgG	TRUE	FHA 1.773239e+02	3.19960519
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25	2	IgG	TRUE	PT 1.307630e+01	0.71268463
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27	2	IgG	TRUE	FHA 4.159133e+01	0.75046769
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97	5	IgG	TRUE	PT	1.625000e+02	8.85657487
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112	3	IgG	TRUE	PT	4.107241e+01	2.23852839
113	3	IgG	TRUE	PRN	8.814238e+02	6.90630990
114	3	IgG	TRUE	FHA	1.185769e+02	2.13958295
115	4	IgG	TRUE	PT	9.268763e+01	5.05166119
116	4	IgG	TRUE	PRN	1.564662e+03	12.25975653
117	4	IgG	TRUE	FHA	6.400000e-02	0.08443681
118	5	IgG	TRUE	PT	6.990745e+01	3.81009595
119	5	IgG	TRUE	PRN	1.016814e+02	0.79671478
120	5	IgG	TRUE	FHA	1.413182e+02	2.54992390
121	6	IgG	TRUE	PT	2.882964e+01	1.57127294
122	6	IgG	TRUE	PRN	1.194874e+02	0.93623204
123	6	IgG	TRUE	FHA	1.319043e+02	2.38006107
124	7	IgG	TRUE	PT	1.676128e+01	0.91352323
125	7	IgG	TRUE	PRN	1.151625e+03	9.02344724
126	7	IgG	TRUE	FHA	7.926652e+01	1.43027310
127	1	IgG	TRUE	PT	4.051410e+00	0.22080995
128	1	IgG	TRUE	PRN	1.983310e+01	0.15540035
129	1	IgG	TRUE	FHA	2.083516e+01	0.37594650
130	2	IgG	TRUE	PT	3.550618e+00	0.19351580
131	2	IgG	TRUE	PRN	1.913890e+01	0.14996099
132	2	IgG	TRUE	FHA	1.858811e+01	0.33540114
133	3	IgG	TRUE	PT	6.419504e+00	0.34987579

134	3	IgG	TRUE	PRN	2.872214e+02	2.25049529
135	3	IgG	TRUE	FHA	3.572994e+01	0.64470556
136	4	IgG	TRUE	PT	1.665922e+01	0.90796079
137	4	IgG	TRUE	PRN	5.119509e+02	4.01134101
138	4	IgG	TRUE	FHA	3.233428e+02	5.83434917
139	5	IgG	TRUE	PT	1.740970e+01	0.94886320
140	5	IgG	TRUE	PRN	5.170230e+02	4.05108290
141	5	IgG	TRUE	FHA	3.320398e+02	5.99127661
142	6	IgG	TRUE	PT	1.646815e+01	0.89754717
143	6	IgG	TRUE	PRN	5.128717e+02	4.01855586
144	6	IgG	TRUE	FHA	3.523074e+02	6.35698095
145	7	IgG	TRUE	PT	1.011236e+01	0.55114405
146	7	IgG	TRUE	PRN	4.192339e+02	3.28486650
147	7	IgG	TRUE	FHA	1.660255e+02	2.99573825
148	1	IgG	TRUE	PT	5.360000e-01	0.02921307
149	1	IgG	TRUE	PRN	8.517523e+00	0.06673822
150	1	IgG	TRUE	FHA	5.802152e+00	0.10469316
151	2	IgG	TRUE	PT	5.360000e-01	0.02921307
152	2	IgG	TRUE	PRN	9.411465e+00	0.07374261
153	2	IgG	TRUE	FHA	5.916982e+00	0.10676512
154	3	IgG	TRUE	PT	4.638202e+00	0.25279129
155	3	IgG	TRUE	PRN	1.380042e+03	10.81318654
156	3	IgG	TRUE	FHA	1.373764e+02	2.47879825
157	4	IgG	TRUE	PT	3.821589e+00	0.20828423
158	4	IgG	TRUE	PRN	1.256335e+03	9.84389357
159	4	IgG	TRUE	FHA	1.239740e+02	2.23696783
160	5	IgG	TRUE	PT	5.135951e+00	0.27991960
161	5	IgG	TRUE	PRN	1.421686e+03	11.13948206
162	5	IgG	TRUE	FHA	3.626739e+02	6.54403364
163	6	IgG	TRUE	PT	3.418229e+00	0.18630034
164	6	IgG	TRUE	PRN	1.107510e+03	8.67778753
165	6	IgG	TRUE	FHA	1.529553e+02	2.75990244
166	1	IgG	TRUE	PT	4.453207e+01	2.42708675
167	1	IgG	TRUE	PRN	1.032303e+03	8.08851042
168	1	IgG	TRUE	FHA	2.524351e+02	4.55490076
169	2	IgG	TRUE	PT	3.613811e+01	1.96959897
170	2	IgG	TRUE	PRN	8.266159e+02	6.47686850
171	2	IgG	TRUE	FHA	1.682969e+02	3.03672400
172	3	IgG	TRUE	PT	3.523752e+01	1.92051552
173	3	IgG	TRUE	PRN	7.795843e+02	6.10835688
174	3	IgG	TRUE	FHA	1.582893e+02	2.85614874
175	4	IgG	TRUE	PT	5.337719e+02	29.09163758
176	4	IgG	TRUE	PRN	1.238873e+03	9.70707220

177	4	IgG	TRUE	FHA	1.081146e+03	19.50804277
178	5	IgG	TRUE	PT	4.145139e+02	22.59183883
179	5	IgG	TRUE	PRN	9.920211e+02	7.77288424
180	5	IgG	TRUE	FHA	1.994546e+03	35.98929430
181	6	IgG	TRUE	PT	1.991238e+02	10.85264293
182	6	IgG	TRUE	PRN	6.319714e+02	4.95175010
183	6	IgG	TRUE	FHA	7.393619e+02	13.34093480
184	7	IgG	TRUE	PT	1.434999e+02	7.82103317
185	7	IgG	TRUE	PRN	7.010340e+01	0.54928832
186	7	IgG	TRUE	FHA	1.671654e+02	3.01630766
187	1	IgG	TRUE	PT	2.426124e+00	0.13222859
188	1	IgG	TRUE	PRN	1.117052e+02	0.87525520
189	1	IgG	TRUE	FHA	4.239256e+01	0.76492492
190	2	IgG	TRUE	PT	2.736522e+00	0.14914591
191	2	IgG	TRUE	PRN	1.144883e+02	0.89706151
192	2	IgG	TRUE	FHA	3.563300e+01	0.64295654
193	3	IgG	TRUE	PT	5.360000e-01	0.02921307
194	3	IgG	TRUE	PRN	2.691901e+01	0.21092130
195	3	IgG	TRUE	FHA	9.201571e+01	1.66031750
196	4	IgG	TRUE	PT	2.495638e+01	1.36017276
197	4	IgG	TRUE	PRN	1.478117e+02	1.15816441
198	4	IgG	TRUE	FHA	2.749114e+02	4.96045917
199	5	IgG	TRUE	PT	9.687427e+01	5.27984158
200	5	IgG	TRUE	PRN	9.238261e+02	7.23854927
201	5	IgG	TRUE	FHA	8.544696e+02	15.41792073
202	6	IgG	TRUE	PT	3.544540e+01	1.93184542
203	6	IgG	TRUE	PRN	4.052294e+02	3.17513535
204	6	IgG	TRUE	FHA	6.400000e-02	0.08443681
205	1	IgG	TRUE	PT	2.901240e+01	1.58123355
206	1	IgG	TRUE	PRN	1.513044e+02	1.18553056
207	1	IgG	TRUE	FHA	6.152968e+01	1.11023220
208	2	IgG	TRUE	PT	3.688192e+01	2.01013838
209	2	IgG	TRUE	PRN	1.789100e+02	1.40183166
210	2	IgG	TRUE	FHA	2.812796e+02	5.07536671
211	3	IgG	TRUE	PT	4.178865e+01	2.27756513
212	3	IgG	TRUE	PRN	5.208797e+01	0.40813016
213	3	IgG	TRUE	FHA	1.297595e+02	2.34136104
214	4	IgG	TRUE	PT	4.028783e+01	2.19576744
215	4	IgG	TRUE	PRN	1.742536e+03	13.65346671
216	4	IgG	TRUE	FHA	4.172322e+03	75.28475227
217	5	IgG	TRUE	PT	5.806193e+01	3.16449137
218	5	IgG	TRUE	PRN	1.950008e+03	15.27909747
219	5	IgG	TRUE	FHA	1.226448e+03	22.12983937

220	6	IgG	TRUE	PT	2.044619e+02	11.14358372
221	6	IgG	TRUE	PRN	6.692579e+03	52.43904684
222	6	IgG	TRUE	FHA	6.400000e-02	0.08443681
223	7	IgG	TRUE	PT	1.711338e+02	9.32713483
224	7	IgG	TRUE	PRN	1.980464e+03	15.51772986
225	7	IgG	TRUE	FHA	5.200000e+03	93.82801540
226	1	IgG	TRUE	PT	2.250771e+01	1.22671504
227	1	IgG	TRUE	PRN	3.263699e+02	2.55723964
228	1	IgG	TRUE	FHA	3.820506e+01	0.68936633
229	2	IgG	TRUE	PT	2.606545e+01	1.42061899
230	2	IgG	TRUE	PRN	4.187382e+02	3.28098230
231	2	IgG	TRUE	FHA	4.620979e+01	0.83380242
232	3	IgG	TRUE	PT	8.942424e-01	0.04873800
233	3	IgG	TRUE	PRN	6.879474e+01	0.53903448
234	3	IgG	TRUE	FHA	2.086295e+01	0.37644798
235	4	IgG	TRUE	PT	2.042297e+02	11.13092955
236	4	IgG	TRUE	PRN	6.416130e+01	0.50272959
237	4	IgG	TRUE	FHA	1.229908e+02	2.21922731
238	5	IgG	TRUE	PT	2.690013e+02	14.66110672
239	5	IgG	TRUE	PRN	6.958961e+01	0.54526258
240	5	IgG	TRUE	FHA	1.421788e+02	2.56545363
241	1	IgG	TRUE	PT	5.545653e+00	0.30224919
242	1	IgG	TRUE	PRN	1.330958e+02	1.04285885
243	1	IgG	TRUE	FHA	6.737060e+01	1.21562486
244	2	IgG	TRUE	PT	3.514701e+00	0.19155823
245	2	IgG	TRUE	PRN	1.040989e+02	0.81565638
246	2	IgG	TRUE	FHA	5.010027e+01	0.90400163
247	3	IgG	TRUE	PT	2.014169e+01	1.09776245
248	3	IgG	TRUE	PRN	2.758500e+02	2.16139583
249	3	IgG	TRUE	FHA	3.302796e+01	0.59595155
250	4	IgG	TRUE	PT	1.618016e+01	0.88185086
251	4	IgG	TRUE	PRN	7.132532e+02	5.58862610
252	4	IgG	TRUE	FHA	6.217074e+01	1.12179949
253	5	IgG	TRUE	PT	1.004895e+02	5.47687617
254	5	IgG	TRUE	PRN	2.340790e+03	18.34103176
255	5	IgG	TRUE	FHA	6.400000e-02	0.08443681
256	6	IgG	TRUE	PT	1.174317e+01	0.64002640
257	6	IgG	TRUE	PRN	1.166437e+03	9.13950276
258	6	IgG	TRUE	FHA	5.158434e+01	0.93078005
259	7	IgG	TRUE	PT	6.656937e+00	0.36281637
260	7	IgG	TRUE	PRN	5.174686e+02	4.05457497
261	7	IgG	TRUE	FHA	3.212832e+01	0.57971848
262	1	IgG	TRUE	PT	5.271166e+01	2.87289077

263	1	IgG	TRUE	PRN 5.305970e+01	0.41574411
264	1	IgG	TRUE	FHA 1.305932e+02	2.35640452
265	2	IgG	TRUE	PT 2.396038e+01	1.30588864
266	2	IgG	TRUE	PRN 1.256876e+02	0.98481254
267	2	IgG	TRUE	FHA 5.080979e+01	0.91680413
268	3	IgG	TRUE	PT 3.844803e+00	0.20954945
269	3	IgG	TRUE	PRN 9.273972e+01	0.72665298
270	3	IgG	TRUE	FHA 5.311417e+01	0.95838403
271	4	IgG	TRUE	PT 8.667540e+01	4.72398240
272	4	IgG	TRUE	PRN 5.887727e+01	0.46132710
273	4	IgG	TRUE	FHA 1.190047e+02	2.14730260
274	5	IgG	TRUE	PT 9.944042e+01	5.41970147
275	5	IgG	TRUE	PRN 6.562860e+01	0.51422649
276	5	IgG	TRUE	FHA 1.467373e+02	2.64770588
277	6	IgG	TRUE	PT 5.779780e+01	3.15009551
278	6	IgG	TRUE	PRN 5.739574e+01	0.44971868
279	6	IgG	TRUE	FHA 1.246199e+02	2.24862334
280	7	IgG	TRUE	PT 4.414412e+01	2.40594281
281	7	IgG	TRUE	PRN 5.589049e+01	0.43792448
282	7	IgG	TRUE	FHA 1.211307e+02	2.18566340
283	1	IgG	TRUE	PT 1.829349e+02	9.97031964
284	1	IgG	TRUE	PRN 5.124735e+01	0.40154363
285	1	IgG	TRUE	FHA 1.357472e+02	2.44940192
286	2	IgG	TRUE	PT 1.471305e+02	8.01890564
287	2	IgG	TRUE	PRN 4.835943e+01	0.37891562
288	2	IgG	TRUE	FHA 1.289503e+02	2.32675912
289	3	IgG	TRUE	PT 1.435148e+02	7.82184318
290	3	IgG	TRUE	PRN 4.855403e+01	0.38044034
291	3	IgG	TRUE	FHA 1.289136e+02	2.32609760
292	4	IgG	TRUE	PT 1.625990e+02	8.86197308
293	4	IgG	TRUE	PRN 5.302816e+01	0.41549700
294	4	IgG	TRUE	FHA 1.341906e+02	2.42131468
295	5	IgG	TRUE	PT 1.689009e+02	9.20543572
296	5	IgG	TRUE	PRN 5.600045e+01	0.43878607
297	5	IgG	TRUE	FHA 1.401211e+02	2.52832385
298	6	IgG	TRUE	PT 1.298864e+02	7.07906798
299	6	IgG	TRUE	PRN 5.151702e+01	0.40365657
300	6	IgG	TRUE	FHA 1.304913e+02	2.35456579
301	7	IgG	TRUE	PT 9.833932e+01	5.35968966
302	7	IgG	TRUE	PRN 4.808457e+01	0.37676193
303	7	IgG	TRUE	FHA 1.228700e+02	2.21704700
304	1	IgG	TRUE	PT 4.074401e+01	2.22062993
305	1	IgG	TRUE	PRN 2.508894e+02	1.96581906

306	1	IgG	TRUE	FHA	5.795644e+02	10.45757330
307	2	IgG	TRUE	PT	2.795453e+01	1.52357789
308	2	IgG	TRUE	PRN	1.605668e+02	1.25810542
309	2	IgG	TRUE	FHA	3.035511e+02	5.47723109
310	3	IgG	TRUE	PT	2.132857e+01	1.16244994
311	3	IgG	TRUE	PRN	1.151682e+02	0.90238930
312	3	IgG	TRUE	FHA	4.441353e+01	0.80139104
313	4	IgG	TRUE	PT	1.906822e+02	10.39256335
314	4	IgG	TRUE	PRN	8.732788e+01	0.68424908
315	4	IgG	TRUE	FHA	1.746558e+02	3.15146227
316	5	IgG	TRUE	PT	1.829061e+02	9.96874747
317	5	IgG	TRUE	PRN	7.181812e+01	0.56272384
318	5	IgG	TRUE	FHA	1.725602e+02	3.11365058
319	6	IgG	TRUE	PT	1.416498e+02	7.72019871
320	6	IgG	TRUE	PRN	6.919332e+01	0.54215751
321	6	IgG	TRUE	FHA	1.530398e+02	2.76142639
322	7	IgG	TRUE	PT	1.116795e+02	6.08675823
323	7	IgG	TRUE	PRN	6.522203e+01	0.51104084
324	7	IgG	TRUE	FHA	1.398602e+02	2.52361659
325	1	IgG	TRUE	PT	6.382116e+01	3.47838076
326	1	IgG	TRUE	PRN	3.298965e+02	2.58487186
327	1	IgG	TRUE	FHA	5.876777e+01	1.06039684
328	2	IgG	TRUE	PT	6.693838e+01	3.64827565
329	2	IgG	TRUE	PRN	5.373607e+01	0.42104376
330	2	IgG	TRUE	FHA	1.022067e+02	1.84420230
331	3	IgG	TRUE	PT	7.681929e+01	4.18680488
332	3	IgG	TRUE	PRN	5.495146e+01	0.43056679
333	3	IgG	TRUE	FHA	1.048874e+02	1.89257214
334	4	IgG	TRUE	PT	1.688730e+02	9.20391366
335	4	IgG	TRUE	PRN	6.582207e+01	0.51574239
336	4	IgG	TRUE	FHA	1.280483e+02	2.31048423
337	5	IgG	TRUE	PT	1.701837e+02	9.27535380
338	5	IgG	TRUE	PRN	7.015329e+01	0.54967928
339	5	IgG	TRUE	FHA	1.243605e+02	2.24394244
340	6	IgG	TRUE	PT	8.618554e+01	4.69728443
341	6	IgG	TRUE	PRN	6.301735e+01	0.49376630
342	6	IgG	TRUE	FHA	1.037441e+02	1.87194287
343	7	IgG	TRUE	PT	7.018579e+01	3.82526577
344	7	IgG	TRUE	PRN	6.065126e+01	0.47522701
345	7	IgG	TRUE	FHA	1.002833e+02	1.80949649
346	1	IgG	TRUE	PT	8.912066e+01	4.85725419
347	1	IgG	TRUE	PRN	6.462526e+01	0.50636494
348	1	IgG	TRUE	FHA	1.057359e+02	1.90788230

349	2	IgG	TRUE	PT	9.381605e+01	5.11316216
350	2	IgG	TRUE	PRN	6.552807e+01	0.51343875
351	2	IgG	TRUE	FHA	1.054893e+02	1.90343246
352	3	IgG	TRUE	PT	2.483628e+01	1.35362715
353	3	IgG	TRUE	PRN	3.028811e+02	2.37319536
354	3	IgG	TRUE	FHA	6.706044e+02	12.10028529
355	4	IgG	TRUE	PT	1.116587e+02	6.08562490
356	4	IgG	TRUE	PRN	5.466406e+01	0.42831490
357	4	IgG	TRUE	FHA	1.336939e+02	2.41235184
358	5	IgG	TRUE	PT	1.332696e+02	7.26345933
359	5	IgG	TRUE	PRN	5.648016e+01	0.44254475
360	5	IgG	TRUE	FHA	1.405000e+02	2.53516075
361	6	IgG	TRUE	PT	9.902579e+01	5.39710358
362	6	IgG	TRUE	PRN	5.330458e+01	0.41766286
363	6	IgG	TRUE	FHA	1.238193e+02	2.23417628
364	7	IgG	TRUE	PT	6.589953e+01	3.59165598
365	7	IgG	TRUE	PRN	5.145723e+01	0.40318812
366	7	IgG	TRUE	FHA	1.139081e+02	2.05534020
367	1	IgG	TRUE	PT	1.071943e+02	5.84230335
368	1	IgG	TRUE	PRN	2.814854e+02	2.20555137
369	1	IgG	TRUE	FHA	7.893819e+02	14.24348716
370	2	IgG	TRUE	PT	9.663384e+00	0.52667375
371	2	IgG	TRUE	PRN	1.840038e+03	14.41743859
372	2	IgG	TRUE	FHA	4.930228e+01	0.88960296
373	3	IgG	TRUE	PT	3.046665e+00	0.16604934
374	3	IgG	TRUE	PRN	8.320161e+02	6.51918115
375	3	IgG	TRUE	FHA	1.907422e+01	0.34417236
376	4	IgG	TRUE	PT	2.561991e+01	1.39633657
377	4	IgG	TRUE	PRN	1.552265e+03	12.16261739
378	4	IgG	TRUE	FHA	9.594110e+02	17.31146681
379	5	IgG	TRUE	PT	3.536885e+01	1.92767308
380	5	IgG	TRUE	PRN	1.796709e+03	14.07793693
381	5	IgG	TRUE	FHA	6.400000e-02	0.08443681
382	6	IgG	TRUE	PT	2.291502e+01	1.24891414
383	6	IgG	TRUE	PRN	1.442427e+03	11.30199434
384	6	IgG	TRUE	FHA	2.945337e+02	5.31452145
385	7	IgG	TRUE	PT	1.334159e+01	0.72714312
386	7	IgG	TRUE	PRN	1.203822e+03	9.43242795
387	7	IgG	TRUE	FHA	9.293797e+01	1.67695863
388	1	IgG	TRUE	PT	6.387587e+01	3.48136253
389	1	IgG	TRUE	PRN	1.873719e+02	1.46813418
390	1	IgG	TRUE	FHA	1.890452e+02	3.41110325
391	2	IgG	TRUE	PT	5.805951e+00	0.31643595

392	2	IgG	TRUE	PRN	2.513400e+02	1.96935023
393	2	IgG	TRUE	FHA	2.880693e+01	0.51978791
394	3	IgG	TRUE	PT	1.966594e+00	0.10718333
395	3	IgG	TRUE	PRN	1.023830e+02	0.80221175
396	3	IgG	TRUE	FHA	1.499334e+01	0.27053752
397	4	IgG	TRUE	PT	1.371755e+02	7.47634110
398	4	IgG	TRUE	PRN	6.768119e+01	0.53030938
399	4	IgG	TRUE	FHA	1.351576e+02	2.43876308
400	5	IgG	TRUE	PT	8.998965e+01	4.90461599
401	5	IgG	TRUE	PRN	6.460081e+01	0.50617337
402	5	IgG	TRUE	FHA	1.291678e+02	2.33068360
403	6	IgG	TRUE	PT	1.124450e+02	6.12847970
404	6	IgG	TRUE	PRN	6.569762e+01	0.51476731
405	6	IgG	TRUE	FHA	1.342734e+02	2.42280869
406	7	IgG	TRUE	PT	7.609423e+01	4.14728768
407	7	IgG	TRUE	PRN	6.275005e+01	0.49167185
408	7	IgG	TRUE	FHA	1.253301e+02	2.26143830
409	1	IgG	TRUE	PT	5.895038e+00	0.32129134
410	1	IgG	TRUE	PRN	4.496968e+01	0.35235555
411	1	IgG	TRUE	FHA	1.233317e+02	2.22537858
412	2	IgG	TRUE	PT	6.333229e+00	0.34517365
413	2	IgG	TRUE	PRN	4.934584e+01	0.38664451
414	2	IgG	TRUE	FHA	1.161691e+02	2.09613713
415	3	IgG	TRUE	PT	5.301253e+00	0.28892887
416	3	IgG	TRUE	PRN	3.801353e+01	0.29785129
417	3	IgG	TRUE	FHA	1.048466e+02	1.89183610
418	4	IgG	TRUE	PT	7.992845e+01	4.35626048
419	4	IgG	TRUE	PRN	7.340488e+01	0.57515677
420	4	IgG	TRUE	FHA	1.725602e+02	3.11365058
421	5	IgG	TRUE	PT	1.322196e+02	7.20623213
422	5	IgG	TRUE	PRN	4.527043e+03	35.47119920
423	5	IgG	TRUE	FHA	3.725596e+03	67.22408990
424	6	IgG	TRUE	PT	1.287069e+02	7.01478560
425	6	IgG	TRUE	PRN	7.669145e+01	0.60090834
426	6	IgG	TRUE	FHA	1.887348e+02	3.40550221
427	7	IgG	TRUE	PT	7.821953e+01	4.26312098
428	7	IgG	TRUE	PRN	7.658569e+01	0.60007966
429	7	IgG	TRUE	FHA	1.782984e+02	3.21718863
430	1	IgG	TRUE	PT	3.774999e+00	0.20574500
431	1	IgG	TRUE	PRN	1.393840e+02	1.09212982
432	1	IgG	TRUE	FHA	2.905770e+01	0.52431273
433	2	IgG	TRUE	PT	2.995838e+00	0.16327916
434	2	IgG	TRUE	PRN	1.250694e+02	0.97996938

435	2	IgG	TRUE	FHA	2.788720e+01	0.50319246
436	3	IgG	TRUE	PT	2.867299e+00	0.15627354
437	3	IgG	TRUE	PRN	1.190190e+02	0.93256157
438	3	IgG	TRUE	FHA	2.735905e+01	0.49366253
439	4	IgG	TRUE	PT	2.363176e+01	1.28797842
440	4	IgG	TRUE	PRN	5.623034e+02	4.40587310
441	4	IgG	TRUE	FHA	1.167246e+02	2.10616147
442	5	IgG	TRUE	PT	1.600102e+01	0.87208731
443	5	IgG	TRUE	PRN	3.739185e+02	2.92980178
444	5	IgG	TRUE	FHA	1.051856e+02	1.89795387
445	6	IgG	TRUE	PT	1.461359e+01	0.79647014
446	6	IgG	TRUE	PRN	3.968450e+02	3.10944011
447	6	IgG	TRUE	FHA	1.506632e+02	2.71854404
448	7	IgG	TRUE	PT	1.257752e+01	0.68549982
449	7	IgG	TRUE	PRN	3.854399e+02	3.02007682
450	7	IgG	TRUE	FHA	1.223446e+02	2.20756785
451	1	IgG	TRUE	PT	1.250248e+01	0.68141033
452	1	IgG	TRUE	PRN	9.458779e+01	0.74113341
453	1	IgG	TRUE	FHA	1.499876e+01	0.27063538
454	2	IgG	TRUE	PT	5.855506e+00	0.31913680
455	2	IgG	TRUE	PRN	5.102666e+01	0.39981444
456	2	IgG	TRUE	FHA	8.729732e+00	0.15751797
457	3	IgG	TRUE	PT	9.181613e+00	0.50041625
458	3	IgG	TRUE	PRN	7.312615e+01	0.57297277
459	3	IgG	TRUE	FHA	1.158317e+01	0.20900502
460	4	IgG	TRUE	PT	2.309943e+01	1.25896521
461	4	IgG	TRUE	PRN	8.000794e+02	6.26894368
462	4	IgG	TRUE	FHA	7.441052e+01	1.34265226
463	5	IgG	TRUE	PT	9.055533e+00	0.49354466
464	5	IgG	TRUE	PRN	4.352892e+02	3.41066611
465	5	IgG	TRUE	FHA	4.810761e+01	0.86804640
466	6	IgG	TRUE	PT	1.030604e+01	0.56169992
467	6	IgG	TRUE	PRN	2.817626e+02	2.20772312
468	6	IgG	TRUE	FHA	2.852954e+01	0.51478270
469	7	IgG	TRUE	PT	1.283892e+01	0.69974671
470	7	IgG	TRUE	PRN	2.398816e+02	1.87956854
471	7	IgG	TRUE	FHA	2.495473e+01	0.45027945
472	1	IgG	TRUE	PT	1.201846e+01	0.65502996
473	1	IgG	TRUE	PRN	1.500665e+02	1.17583156
474	1	IgG	TRUE	FHA	5.409993e+01	0.97617101
475	2	IgG	TRUE	PT	3.798321e+00	0.20701609
476	2	IgG	TRUE	PRN	4.819894e+01	0.37765808
477	2	IgG	TRUE	FHA	2.114614e+01	0.38155779

478	3	IgG	TRUE	PT	1.145785e+01	0.62447577
479	3	IgG	TRUE	PRN	1.389232e+02	1.08851948
480	3	IgG	TRUE	FHA	5.287750e+01	0.95411354
481	4	IgG	TRUE	PT	1.893884e+01	1.03220454
482	4	IgG	TRUE	PRN	6.776894e+02	5.30996874
483	4	IgG	TRUE	FHA	1.321208e+02	2.38396762
484	5	IgG	TRUE	PT	4.574896e+01	2.49340964
485	5	IgG	TRUE	PRN	5.429478e+01	0.42542144
486	5	IgG	TRUE	FHA	1.171198e+02	2.11329135
487	6	IgG	TRUE	PT	1.027561e+02	5.60041042
488	6	IgG	TRUE	PRN	5.765564e+01	0.45175510
489	6	IgG	TRUE	FHA	1.236559e+02	2.23122817
490	7	IgG	TRUE	PT	3.381657e+01	1.84307076
491	7	IgG	TRUE	PRN	5.392311e+01	0.42250923
492	7	IgG	TRUE	FHA	1.152235e+02	2.07907510
493	1	IgG	TRUE	PT	1.295780e+01	0.70622597
494	1	IgG	TRUE	PRN	1.019760e+02	0.79902286
495	1	IgG	TRUE	FHA	1.221793e+02	2.20458553
496	2	IgG	TRUE	PT	3.798321e+00	0.20701609
497	2	IgG	TRUE	PRN	3.505703e+01	0.27468591
498	2	IgG	TRUE	FHA	4.330267e+01	0.78134676
499	3	IgG	TRUE	PT	9.240235e+00	0.50361130
500	3	IgG	TRUE	PRN	7.727307e+01	0.60546556
501	3	IgG	TRUE	FHA	9.731366e+01	1.75591306
502	4	IgG	TRUE	PT	5.360000e-01	0.02921307
503	4	IgG	TRUE	PRN	6.721845e+01	0.52668361
504	4	IgG	TRUE	FHA	1.256411e+02	2.26704872
505	5	IgG	TRUE	PT	4.395969e+01	2.39589088
506	5	IgG	TRUE	PRN	6.191643e+01	0.48514013
507	5	IgG	TRUE	FHA	1.240056e+02	2.23753748
508	6	IgG	TRUE	PT	4.423585e+01	2.41094249
509	6	IgG	TRUE	PRN	6.495799e+01	0.50897195
510	6	IgG	TRUE	FHA	1.263123e+02	2.27916057
511	7	IgG	TRUE	PT	3.389009e+01	1.84707760
512	7	IgG	TRUE	PRN	6.056246e+02	4.74531248
513	7	IgG	TRUE	FHA	2.213402e+02	3.99382986
514	1	IgG	TRUE	PT	2.492037e+01	1.35821005
515	1	IgG	TRUE	PRN	3.061343e+02	2.39868505
516	1	IgG	TRUE	FHA	8.622713e+02	15.55869309
517	2	IgG	TRUE	PT	1.223861e+01	0.66702882
518	2	IgG	TRUE	PRN	1.703891e+02	1.33506725
519	2	IgG	TRUE	FHA	1.188648e+02	2.14477881
520	3	IgG	TRUE	PT	2.153587e+01	1.17374816

521	3	IgG	TRUE	PRN	2.711251e+02	2.12437427
522	3	IgG	TRUE	FHA	3.169670e+02	5.71930478
523	4	IgG	TRUE	PT	1.064620e+02	5.80239345
524	4	IgG	TRUE	PRN	7.828983e+01	0.61343231
525	4	IgG	TRUE	FHA	1.656671e+02	2.98927220
526	5	IgG	TRUE	PT	1.164783e+02	6.34829906
527	5	IgG	TRUE	PRN	2.739379e+03	21.46414001
528	5	IgG	TRUE	FHA	8.683208e+02	15.66784990
529	6	IgG	TRUE	PT	1.415592e+02	7.71525868
530	6	IgG	TRUE	PRN	7.721252e+01	0.60499112
531	6	IgG	TRUE	FHA	1.655496e+02	2.98715170
532	7	IgG	TRUE	PT	8.791129e+01	4.79134103
533	7	IgG	TRUE	PRN	7.120695e+01	0.55793508
534	7	IgG	TRUE	FHA	1.400349e+02	2.52676938
535	1	IgG	TRUE	PT	1.826877e+01	0.99568429
536	1	IgG	TRUE	PRN	8.105148e+02	6.35070974
537	1	IgG	TRUE	FHA	2.761220e+02	4.98230288
538	2	IgG	TRUE	PT	1.437091e+01	0.78324334
539	2	IgG	TRUE	PRN	6.480000e+02	5.07734041
540	2	IgG	TRUE	FHA	2.283490e+02	4.12029580
541	3	IgG	TRUE	PT	1.839418e+01	1.00251948
542	3	IgG	TRUE	PRN	8.381971e+02	6.56761183
543	3	IgG	TRUE	FHA	3.376331e+02	6.09220079
544	4	IgG	TRUE	PT	3.514443e+01	1.91544177
545	4	IgG	TRUE	PRN	1.010125e+03	7.91473216
546	4	IgG	TRUE	FHA	6.726016e+02	12.13632203
547	5	IgG	TRUE	PT	7.509077e+01	4.09259703
548	5	IgG	TRUE	PRN	6.548496e+01	0.51310098
549	5	IgG	TRUE	FHA	1.425463e+02	2.57208395
550	6	IgG	TRUE	PT	7.084239e+01	3.86105190
551	6	IgG	TRUE	PRN	6.474276e+01	0.50728560
552	6	IgG	TRUE	FHA	1.399148e+02	2.52460105
553	7	IgG	TRUE	PT	5.424624e+01	2.95652855
554	7	IgG	TRUE	PRN	6.446300e+01	0.50509355
555	7	IgG	TRUE	FHA	1.368128e+02	2.46862940
556	1	IgG	TRUE	PT	1.023357e+01	0.55774987
557	1	IgG	TRUE	PRN	1.765636e+02	1.38344723
558	1	IgG	TRUE	FHA	5.032715e+01	0.90809544
559	2	IgG	TRUE	PT	7.595422e+00	0.41396569
560	2	IgG	TRUE	PRN	1.378834e+02	1.08037180
561	2	IgG	TRUE	FHA	4.192474e+01	0.75648362
562	3	IgG	TRUE	PT	3.704702e+00	0.20191367
563	3	IgG	TRUE	PRN	7.440739e+01	0.58301185

564	3	IgG	TRUE	FHA	2.504776e+01	0.45195792
565	4	IgG	TRUE	PT	2.155469e+01	1.17477360
566	4	IgG	TRUE	PRN	2.304141e+02	1.80538731
567	4	IgG	TRUE	FHA	2.076633e+02	3.74704449
568	5	IgG	TRUE	PT	6.269973e+01	3.41726062
569	5	IgG	TRUE	PRN	6.029541e+01	0.47243881
570	5	IgG	TRUE	FHA	1.523079e+02	2.74822002
571	6	IgG	TRUE	PT	4.244389e+01	2.31327662
572	6	IgG	TRUE	PRN	4.780363e+02	3.74560671
573	6	IgG	TRUE	FHA	6.400000e-02	0.08443681
574	7	IgG	TRUE	PT	1.543155e+01	0.84105042
575	7	IgG	TRUE	PRN	2.154585e+02	1.68820365
576	7	IgG	TRUE	FHA	1.418372e+02	2.55928904
577	1	IgG	TRUE	PT	2.229580e+00	0.12151655
578	1	IgG	TRUE	PRN	3.927716e+02	3.07752348
579	1	IgG	TRUE	FHA	1.809727e+01	0.32654449
580	2	IgG	TRUE	PT	2.970301e+00	0.16188733
581	2	IgG	TRUE	PRN	4.322572e+02	3.38690880
582	2	IgG	TRUE	FHA	2.041157e+01	0.36830336
583	3	IgG	TRUE	PT	1.609199e+00	0.08770455
584	3	IgG	TRUE	PRN	3.190734e+02	2.50006825
585	3	IgG	TRUE	FHA	1.579621e+01	0.28502440
586	4	IgG	TRUE	PT	1.825555e+01	0.99496392
587	4	IgG	TRUE	PRN	5.776843e+02	4.52638866
588	4	IgG	TRUE	FHA	1.388163e+02	2.50477996
589	5	IgG	TRUE	PT	3.300308e+01	1.79873358
590	5	IgG	TRUE	PRN	6.628568e+02	5.19374938
591	5	IgG	TRUE	FHA	3.412068e+02	6.15668468
592	6	IgG	TRUE	PT	2.724314e+01	1.48480542
593	6	IgG	TRUE	PRN	6.544175e+02	5.12762399
594	6	IgG	TRUE	FHA	1.956978e+02	3.53114150
595	8	IgG	TRUE	PT	4.884167e+00	0.26619685
596	8	IgG	TRUE	PRN	2.725457e+02	2.13550520
597	8	IgG	TRUE	FHA	3.195008e+01	0.57650243
598	1	IgG	TRUE	PT	3.019657e+01	1.64577368
599	1	IgG	TRUE	PRN	1.887245e+02	1.47873267
600	1	IgG	TRUE	FHA	4.130296e+01	0.74526443
601	2	IgG	TRUE	PT	2.746527e+01	1.49691198
602	2	IgG	TRUE	PRN	1.774785e+02	1.39061507
603	2	IgG	TRUE	FHA	3.695811e+01	0.66686660
604	3	IgG	TRUE	PT	2.919055e+01	1.59094337
605	3	IgG	TRUE	PRN	1.713596e+02	1.34267116
606	3	IgG	TRUE	FHA	3.857508e+01	0.69604294

607	4	IgG	TRUE	PT	1.459129e+02	7.95254476
608	4	IgG	TRUE	PRN	7.756558e+01	0.60775754
609	4	IgG	TRUE	FHA	1.263818e+02	2.28041402
610	5	IgG	TRUE	PT	2.727172e+02	14.86363460
611	5	IgG	TRUE	PRN	9.856625e+01	0.77230625
612	5	IgG	TRUE	FHA	1.852151e+02	3.34199330
613	6	IgG	TRUE	PT	4.075844e+02	22.21416301
614	6	IgG	TRUE	PRN	8.511174e+01	0.66688471
615	6	IgG	TRUE	FHA	1.224335e+02	2.20917243
616	7	IgG	TRUE	PT	1.678208e+02	9.14657064
617	7	IgG	TRUE	PRN	7.692317e+01	0.60272400
618	7	IgG	TRUE	FHA	9.935439e+01	1.79273561
619	1	IgG	TRUE	PT	1.020937e+01	0.55643096
620	1	IgG	TRUE	PRN	2.330574e+01	0.18260983
621	1	IgG	TRUE	FHA	3.273027e+01	0.59058005
622	2	IgG	TRUE	PT	1.151975e+01	0.62784956
623	2	IgG	TRUE	PRN	2.585894e+01	0.20261516
624	2	IgG	TRUE	FHA	3.736294e+01	0.67417116
625	3	IgG	TRUE	PT	1.337095e+01	0.72874345
626	3	IgG	TRUE	PRN	2.766489e+01	0.21676551
627	3	IgG	TRUE	FHA	3.872167e+01	0.69868801
628	4	IgG	TRUE	PT	3.134043e+01	1.70811604
629	4	IgG	TRUE	PRN	1.369927e+02	1.07339324
630	4	IgG	TRUE	FHA	8.749640e+01	1.57877192
631	5	IgG	TRUE	PT	1.540787e+02	8.39759673
632	5	IgG	TRUE	PRN	7.607719e+01	0.59609541
633	5	IgG	TRUE	FHA	2.512554e+02	4.53361433
634	6	IgG	TRUE	PT	1.262250e+02	6.87951327
635	6	IgG	TRUE	PRN	7.418704e+01	0.58128534
636	6	IgG	TRUE	FHA	1.605444e+02	2.89683818
637	7	IgG	TRUE	PT	7.603800e+01	4.14422283
638	7	IgG	TRUE	PRN	6.820847e+01	0.53444079
639	7	IgG	TRUE	FHA	1.451946e+02	2.61986920
640	1	IgG	TRUE	PT	2.169251e+01	1.18228510
641	1	IgG	TRUE	PRN	2.073119e+02	1.62437247
642	1	IgG	TRUE	FHA	9.843216e+01	1.77609497
643	2	IgG	TRUE	PT	2.065205e+01	1.12557828
644	2	IgG	TRUE	PRN	2.022158e+02	1.58444210
645	2	IgG	TRUE	FHA	9.041157e+01	1.63137276
646	3	IgG	TRUE	PT	2.410600e+01	1.31382533
647	3	IgG	TRUE	PRN	2.331715e+02	1.82699251
648	3	IgG	TRUE	FHA	1.095883e+02	1.97739497
649	4	IgG	TRUE	PT	1.723144e+02	9.39148179

650	4	IgG	TRUE	PRN 6.877275e+01	0.53886220
651	4	IgG	TRUE	FHA 1.710255e+02	3.08595837
652	5	IgG	TRUE	PT 1.407706e+02	7.67228073
653	5	IgG	TRUE	PRN 6.638691e+01	0.52016817
654	5	IgG	TRUE	FHA 2.512554e+02	4.53361433
655	6	IgG	TRUE	PT 3.968596e+01	2.16296414
656	6	IgG	TRUE	PRN 5.767023e+01	0.45186945
657	6	IgG	TRUE	FHA 1.898114e+02	3.42492794
658	7	IgG	TRUE	PT 2.751197e+01	1.49945725
659	7	IgG	TRUE	PRN 2.683680e+02	2.10277123
660	7	IgG	TRUE	FHA 1.245341e+02	2.24707515
661	1	IgG	TRUE	PT 2.360127e+01	1.28631632
662	1	IgG	TRUE	PRN 1.729356e+02	1.35502023
663	1	IgG	TRUE	FHA 1.321948e+02	2.38530336
664	2	IgG	TRUE	PT 3.265219e+01	1.77960983
665	2	IgG	TRUE	PRN 2.604134e+02	2.04044382
666	2	IgG	TRUE	FHA 1.916896e+02	3.45881836
667	3	IgG	TRUE	PT 4.159569e+01	2.26704815
668	3	IgG	TRUE	PRN 3.924922e+02	3.07533393
669	3	IgG	TRUE	FHA 4.026069e+02	7.26457838
670	4	IgG	TRUE	PT 7.345474e+01	4.00342993
671	4	IgG	TRUE	PRN 5.810963e+01	0.45531235
672	4	IgG	TRUE	FHA 1.282411e+02	2.31396251
673	5	IgG	TRUE	PT 7.734049e+01	4.21521124
674	5	IgG	TRUE	PRN 9.832758e+02	7.70436161
675	5	IgG	TRUE	FHA 6.400000e-02	0.08443681
676	6	IgG	TRUE	PT 6.973527e+01	3.80071177
677	6	IgG	TRUE	PRN 6.469558e+01	0.50691593
678	6	IgG	TRUE	FHA 1.243780e+02	2.24425816
679	7	IgG	TRUE	PT 4.484448e+01	2.44411398
680	7	IgG	TRUE	PRN 1.036777e+03	8.12356347
681	7	IgG	TRUE	FHA 7.739940e+02	13.96583121
682	1	IgG	TRUE	PT 1.940079e+01	1.05738162
683	1	IgG	TRUE	PRN 5.162612e+02	4.04511425
684	1	IgG	TRUE	FHA 1.667810e+02	3.00937067
685	2	IgG	TRUE	PT 9.597456e+00	0.52308055
686	2	IgG	TRUE	PRN 2.537477e+02	1.98821536
687	2	IgG	TRUE	FHA 7.883554e+01	1.42249665
688	3	IgG	TRUE	PT 1.087948e+01	0.59295350
689	3	IgG	TRUE	PRN 3.115021e+02	2.44074409
690	3	IgG	TRUE	FHA 8.862229e+01	1.59908731
691	4	IgG	TRUE	PT 2.676206e+01	1.45858577
692	4	IgG	TRUE	PRN 5.566831e+02	4.36183577

693	4	IgG	TRUE	FHA	1.340123e+02	2.41809709
694	5	IgG	TRUE	PT	4.140028e+01	2.25639777
695	5	IgG	TRUE	PRN	5.851944e+02	4.58523351
696	5	IgG	TRUE	FHA	1.890452e+02	3.41110325
697	6	IgG	TRUE	PT	2.243961e+01	1.22300337
698	6	IgG	TRUE	PRN	3.343827e+02	2.62002329
699	6	IgG	TRUE	FHA	1.025136e+02	1.84973914
700	1	IgG	TRUE	PT	7.505371e+00	0.40905771
701	1	IgG	TRUE	PRN	8.596242e+01	0.67355012
702	1	IgG	TRUE	FHA	5.801629e+01	1.04683718
703	2	IgG	TRUE	PT	4.670559e+00	0.25455480
704	2	IgG	TRUE	PRN	6.019109e+01	0.47162139
705	2	IgG	TRUE	FHA	4.003441e+01	0.72237493
706	3	IgG	TRUE	PT	2.580434e+01	1.40638789
707	3	IgG	TRUE	PRN	1.008190e+03	7.89957175
708	3	IgG	TRUE	FHA	2.668517e+02	4.81503241
709	4	IgG	TRUE	PT	2.103225e+01	1.14629948
710	4	IgG	TRUE	PRN	6.616176e+02	5.18404011
711	4	IgG	TRUE	FHA	1.300057e+02	2.34580273
712	5	IgG	TRUE	PT	2.126563e+01	1.15901953
713	5	IgG	TRUE	PRN	6.375256e+02	4.99526939
714	5	IgG	TRUE	FHA	1.244909e+02	2.24629557
715	1	IgG	TRUE	PT	1.297263e+01	0.70703442
716	1	IgG	TRUE	PRN	6.116588e+01	0.47925926
717	1	IgG	TRUE	FHA	4.234954e+01	0.76414879
718	2	IgG	TRUE	PT	9.933649e+00	0.54140374
719	2	IgG	TRUE	PRN	4.861818e+01	0.38094303
720	2	IgG	TRUE	FHA	3.557965e+01	0.64199383
721	3	IgG	TRUE	PT	8.835470e+00	0.48155077
722	3	IgG	TRUE	PRN	4.144271e+01	0.32472034
723	3	IgG	TRUE	FHA	3.262979e+01	0.58876696
724	4	IgG	TRUE	PT	9.024783e+01	4.91868692
725	4	IgG	TRUE	PRN	6.141924e+01	0.48124445
726	4	IgG	TRUE	FHA	1.295380e+02	2.33736466
727	5	IgG	TRUE	PT	1.211634e+02	6.60364528
728	5	IgG	TRUE	PRN	7.285579e+01	0.57085443
729	5	IgG	TRUE	FHA	1.638311e+02	2.95614297
730	6	IgG	TRUE	PT	5.811900e+01	3.16760167
731	6	IgG	TRUE	PRN	6.522708e+01	0.51108038
732	6	IgG	TRUE	FHA	1.352731e+02	2.44084740
733	7	IgG	TRUE	PT	1.678167e+01	0.91463437
734	7	IgG	TRUE	PRN	3.254907e+02	2.55035096
735	7	IgG	TRUE	FHA	1.045611e+02	1.88668527

736	1	IgG	TRUE	PT	7.433043e+00	0.40511568
737	1	IgG	TRUE	PRN	7.265556e+01	0.56928552
738	1	IgG	TRUE	FHA	6.689593e+01	1.20706003
739	2	IgG	TRUE	PT	2.402022e+02	13.09150273
740	2	IgG	TRUE	PRN	7.624558e+01	0.59741482
741	2	IgG	TRUE	FHA	1.079170e+02	1.94723859
742	3	IgG	TRUE	PT	4.231762e+00	0.23063950
743	3	IgG	TRUE	PRN	5.255804e+01	0.41181337
744	3	IgG	TRUE	FHA	4.666403e+01	0.84199874
745	4	IgG	TRUE	PT	7.188113e+01	3.91766514
746	4	IgG	TRUE	PRN	5.571441e+01	0.43654484
747	4	IgG	TRUE	FHA	1.199849e+02	2.16498960
748	5	IgG	TRUE	PT	1.580558e+02	8.61435564
749	5	IgG	TRUE	PRN	7.541426e+01	0.59090103
750	5	IgG	TRUE	FHA	1.512047e+02	2.72831522
751	6	IgG	TRUE	PT	1.065845e+02	5.80906991
752	6	IgG	TRUE	PRN	7.378435e+01	0.57813008
753	6	IgG	TRUE	FHA	1.351576e+02	2.43876308
754	7	IgG	TRUE	PT	4.548803e+01	2.47918867
755	7	IgG	TRUE	PRN	7.402186e+01	0.57999103
756	7	IgG	TRUE	FHA	1.290268e+02	2.32813963
757	1	IgG	TRUE	PT	1.537562e+01	0.83800194
758	1	IgG	TRUE	PRN	1.060853e+02	0.83122095
759	1	IgG	TRUE	FHA	2.525913e+01	0.45577196
760	2	IgG	TRUE	PT	1.791079e+01	0.97617404
761	2	IgG	TRUE	PRN	1.229962e+02	0.96372447
762	2	IgG	TRUE	FHA	2.784024e+01	0.50234506
763	3	IgG	TRUE	PT	1.095040e+01	0.59681859
764	3	IgG	TRUE	PRN	8.744610e+01	0.68517534
765	3	IgG	TRUE	FHA	2.004209e+01	0.36163648
766	4	IgG	TRUE	PT	9.736591e+01	5.30663653
767	4	IgG	TRUE	PRN	5.346081e+01	0.41888696
768	4	IgG	TRUE	FHA	1.129374e+02	2.03782584
769	5	IgG	TRUE	PT	1.450357e+02	7.90473632
770	5	IgG	TRUE	PRN	6.075938e+01	0.47607422
771	5	IgG	TRUE	FHA	1.210466e+02	2.18414707
772	6	IgG	TRUE	PT	1.085604e+02	5.91676096
773	6	IgG	TRUE	PRN	5.825794e+01	0.45647437
774	6	IgG	TRUE	FHA	1.125551e+02	2.03092715
775	7	IgG	TRUE	PT	3.657272e+01	1.99328622
776	7	IgG	TRUE	PRN	5.280056e+01	0.41371360
777	7	IgG	TRUE	FHA	1.023181e+02	1.84621313
778	1	IgG	TRUE	PT	2.599431e+01	1.41674185

779	1	IgG	TRUE	PRN 1.210951e+03	9.48828973
780	1	IgG	TRUE	FHA 6.400000e-02	0.08443681
781	2	IgG	TRUE	PT 2.673853e+01	1.45730338
782	2	IgG	TRUE	PRN 4.740327e+02	3.71423673
783	2	IgG	TRUE	FHA 1.221231e+02	2.20357146
784	3	IgG	TRUE	PT 2.973470e+01	1.62060080
785	3	IgG	TRUE	PRN 1.290094e+03	10.10840419
786	3	IgG	TRUE	FHA 6.400000e-02	0.08443681
787	4	IgG	TRUE	PT 7.844682e+01	4.27550833
788	4	IgG	TRUE	PRN 1.891719e+03	14.82237945
789	4	IgG	TRUE	FHA 3.813365e+02	6.88077857
790	5	IgG	TRUE	PT 1.985910e+02	10.82360502
791	5	IgG	TRUE	PRN 4.744805e+03	37.17745881
792	5	IgG	TRUE	FHA 8.901165e+03	160.61127768
793	6	IgG	TRUE	PT 1.582781e+02	8.62647047
794	6	IgG	TRUE	PRN 5.313580e+03	41.63403843
795	6	IgG	TRUE	FHA 5.200000e+03	93.82801540
796	7	IgG	TRUE	PT 1.062967e+02	5.79338157
797	7	IgG	TRUE	PRN 5.141615e+03	40.28662011
798	7	IgG	TRUE	FHA 5.510706e+03	99.43435209
799	1	IgG	TRUE	PT 2.143544e+01	1.16827445
800	1	IgG	TRUE	PRN 6.251123e+02	4.89800635
801	1	IgG	TRUE	FHA 4.578810e+01	0.82619351
802	2	IgG	TRUE	PT 1.991070e+01	1.08517287
803	2	IgG	TRUE	PRN 5.547611e+02	4.34677643
804	2	IgG	TRUE	FHA 4.249200e+01	0.76671918
805	3	IgG	TRUE	PT 1.986568e+01	1.08271954
806	3	IgG	TRUE	PRN 5.543428e+02	4.34349916
807	3	IgG	TRUE	FHA 4.463131e+01	0.80532070
808	4	IgG	TRUE	PT 1.462475e+02	7.97078041
809	4	IgG	TRUE	PRN 6.968815e+01	0.54603470
810	4	IgG	TRUE	FHA 1.198196e+02	2.16200669
811	5	IgG	TRUE	PT 1.626313e+02	8.86373049
812	5	IgG	TRUE	PRN 7.393581e+01	0.57931680
813	5	IgG	TRUE	FHA 1.450590e+02	2.61742201
814	6	IgG	TRUE	PT 1.405726e+02	7.66148966
815	6	IgG	TRUE	PRN 7.768805e+01	0.60871715
816	6	IgG	TRUE	FHA 1.395369e+02	2.51778313
817	7	IgG	TRUE	PT 6.919271e+01	3.77114100
818	7	IgG	TRUE	PRN 7.464587e+01	0.58488039
819	7	IgG	TRUE	FHA 1.218328e+02	2.19833265
820	1	IgG	TRUE	PT 1.842714e+01	1.00431571
821	1	IgG	TRUE	PRN 1.887323e+02	1.47879362

822	1	IgG	TRUE	FHA	5.674116e+01	1.02382899
823	2	IgG	TRUE	PT	1.469892e+01	0.80112055
824	2	IgG	TRUE	PRN	1.565405e+02	1.22655752
825	2	IgG	TRUE	FHA	4.662392e+01	0.84127492
826	3	IgG	TRUE	PT	1.418438e+01	0.77307707
827	3	IgG	TRUE	PRN	1.503740e+02	1.17824065
828	3	IgG	TRUE	FHA	4.454959e+01	0.80384615
829	4	IgG	TRUE	PT	2.650881e+01	1.44478329
830	4	IgG	TRUE	PRN	1.284311e+03	10.06309484
831	4	IgG	TRUE	FHA	2.400830e+02	4.33202170
832	5	IgG	TRUE	PT	4.347727e+01	2.36959803
833	5	IgG	TRUE	PRN	2.016905e+03	15.80326165
834	5	IgG	TRUE	FHA	6.400000e-02	0.08443681
835	6	IgG	TRUE	PT	3.329199e+01	1.81448018
836	6	IgG	TRUE	PRN	1.341895e+03	10.51428972
837	6	IgG	TRUE	FHA	1.540964e+03	27.80492851
838	7	IgG	TRUE	PT	2.161737e+01	1.17818975
839	7	IgG	TRUE	PRN	5.971011e+02	4.67852695
840	7	IgG	TRUE	FHA	1.387829e+02	2.50417845
841	1	IgG	TRUE	PT	1.657742e+01	0.90350269
842	1	IgG	TRUE	PRN	8.386397e+01	0.65710797
843	1	IgG	TRUE	FHA	2.454834e+01	0.44294654
844	2	IgG	TRUE	PT	1.471312e+01	0.80189472
845	2	IgG	TRUE	PRN	7.533378e+01	0.59027047
846	2	IgG	TRUE	FHA	2.245076e+01	0.40509810
847	3	IgG	TRUE	PT	1.634493e+01	0.89083146
848	3	IgG	TRUE	PRN	8.025383e+01	0.62882103
849	3	IgG	TRUE	FHA	2.433998e+01	0.43918684
850	4	IgG	TRUE	PT	2.308181e+02	12.58004938
851	4	IgG	TRUE	PRN	8.103991e+01	0.63498030
852	4	IgG	TRUE	FHA	1.326064e+02	2.39273025
853	5	IgG	TRUE	PT	2.938809e+02	16.01709610
854	5	IgG	TRUE	PRN	9.228396e+01	0.72308196
855	5	IgG	TRUE	FHA	1.599920e+02	2.88687165
856	6	IgG	TRUE	PT	1.799022e+02	9.80502883
857	6	IgG	TRUE	PRN	7.153788e+01	0.56052804
858	6	IgG	TRUE	FHA	1.327670e+02	2.39562784
859	7	IgG	TRUE	PT	6.102118e+01	3.32577632
860	7	IgG	TRUE	PRN	5.700062e+01	0.44662276
861	7	IgG	TRUE	FHA	1.101578e+02	1.98766993
862	1	IgG	TRUE	PT	1.891160e+00	0.10307198
863	1	IgG	TRUE	PRN	1.784666e+01	0.13983577
864	1	IgG	TRUE	FHA	1.476261e+01	0.26637422

865	2	IgG	TRUE	PT	2.467442e+00	0.13448051
866	2	IgG	TRUE	PRN	1.968173e+01	0.15421427
867	2	IgG	TRUE	FHA	1.549537e+01	0.27959607
868	3	IgG	TRUE	PT	5.360000e-01	0.02921307
869	3	IgG	TRUE	PRN	8.764068e+00	0.06867000
870	3	IgG	TRUE	FHA	7.942580e+00	0.14331472
871	4	IgG	TRUE	PT	7.765449e+00	0.42323251
872	4	IgG	TRUE	PRN	1.789870e+02	1.40243515
873	4	IgG	TRUE	FHA	2.324352e+02	4.19402483
874	5	IgG	TRUE	PT	3.849907e+01	2.09827627
875	5	IgG	TRUE	PRN	1.562215e+03	12.24058255
876	5	IgG	TRUE	FHA	6.400000e-02	0.08443681
877	6	IgG	TRUE	PT	4.788488e+00	0.26098216
878	6	IgG	TRUE	PRN	2.072009e+02	1.62350205
879	6	IgG	TRUE	FHA	7.250225e+01	1.30821972
880	1	IgG	TRUE	PT	1.805916e+02	9.84260193
881	1	IgG	TRUE	PRN	4.162689e+01	0.32616344
882	1	IgG	TRUE	FHA	1.148528e+02	2.07238618
883	2	IgG	TRUE	PT	1.954764e+02	10.65385586
884	2	IgG	TRUE	PRN	4.335671e+01	0.33971727
885	2	IgG	TRUE	FHA	1.170185e+02	2.11146482
886	3	IgG	TRUE	PT	1.731525e+02	9.43715476
887	3	IgG	TRUE	PRN	4.096267e+01	0.32095896
888	3	IgG	TRUE	FHA	1.144381e+02	2.06490401
889	4	IgG	TRUE	PT	2.393218e+02	13.04351917
890	4	IgG	TRUE	PRN	7.104593e+01	0.55667348
891	4	IgG	TRUE	FHA	1.373493e+02	2.47831062
892	5	IgG	TRUE	PT	2.012391e+02	10.96793431
893	5	IgG	TRUE	PRN	6.857089e+01	0.53728052
894	5	IgG	TRUE	FHA	1.380911e+02	2.49169505
895	1	IgG	TRUE	PT	9.749316e+01	5.31357197
896	1	IgG	TRUE	PRN	5.852579e+01	0.45857315
897	1	IgG	TRUE	FHA	1.086383e+02	1.96025303
898	2	IgG	TRUE	PT	9.446639e+01	5.14860711
899	2	IgG	TRUE	PRN	5.943226e+01	0.46567570
900	2	IgG	TRUE	FHA	1.104782e+02	1.99345154
901	3	IgG	TRUE	PT	1.039093e+02	5.66326261
902	3	IgG	TRUE	PRN	5.948904e+01	0.46612054
903	3	IgG	TRUE	FHA	1.096026e+02	1.97765308
904	4	IgG	TRUE	PT	2.251260e+02	12.26981730
905	4	IgG	TRUE	PRN	7.177704e+01	0.56240199
906	4	IgG	TRUE	FHA	1.393958e+02	2.51523719
907	5	IgG	TRUE	PT	2.808927e+02	15.30921334

908	5	IgG	TRUE	PRN 8.341371e+01	0.65357997
909	5	IgG	TRUE	FHA 1.659573e+02	2.99450810
910	6	IgG	TRUE	PT 2.154813e+02	11.74416023
911	6	IgG	TRUE	PRN 7.951684e+01	0.62304639
912	6	IgG	TRUE	FHA 1.490449e+02	2.68934382
913	7	IgG	TRUE	PT 1.707925e+02	9.30853210
914	7	IgG	TRUE	PRN 7.365216e+01	0.57709431
915	7	IgG	TRUE	FHA 1.389999e+02	2.50809238
916	1	IgG	TRUE	PT 5.360000e-01	0.02921307
917	1	IgG	TRUE	PRN 1.332437e+02	1.04401825
918	1	IgG	TRUE	FHA 2.198101e+01	0.39662206
919	2	IgG	TRUE	PT 5.360000e-01	0.02921307
920	2	IgG	TRUE	PRN 7.014974e+01	0.54965143
921	2	IgG	TRUE	FHA 1.153514e+01	0.20813832
922	3	IgG	TRUE	PT 5.360000e-01	0.02921307
923	3	IgG	TRUE	PRN 1.079205e+00	0.04862611
924	3	IgG	TRUE	FHA 1.000000e-02	0.08443681
925	4	IgG	TRUE	PT 3.574487e+00	0.19481668
926	4	IgG	TRUE	PRN 6.512162e+02	5.10254111
927	4	IgG	TRUE	FHA 1.179531e+02	2.12832883
928	5	IgG	TRUE	PT 5.360000e-01	0.02921307
929	5	IgG	TRUE	PRN 7.492671e+01	0.58708094
930	5	IgG	TRUE	FHA 1.407944e+02	2.54047364
931	6	IgG	TRUE	PT 5.383180e+00	0.29339408
932	6	IgG	TRUE	PRN 9.394406e+02	7.36089515
933	6	IgG	TRUE	FHA 2.060484e+02	3.71790599
934	7	IgG	TRUE	PT 1.736680e+00	0.09465256
935	7	IgG	TRUE	PRN 3.639498e+02	2.85169326
936	7	IgG	TRUE	FHA 5.278889e+01	0.95251479
937	1	IgG	TRUE	PT 1.623514e+01	0.88484777
938	1	IgG	TRUE	PRN 1.326963e+02	1.03972910
939	1	IgG	TRUE	FHA 3.815781e+01	0.68851377
940	2	IgG	TRUE	PT 1.359047e+01	0.74070760
941	2	IgG	TRUE	PRN 1.218211e+02	0.95451708
942	2	IgG	TRUE	FHA 3.293418e+01	0.59425942
943	3	IgG	TRUE	PT 1.627634e+01	0.88709323
944	3	IgG	TRUE	PRN 1.395922e+02	1.09376073
945	3	IgG	TRUE	FHA 3.764493e+01	0.67925940
946	4	IgG	TRUE	PT 1.023437e+02	5.57793682
947	4	IgG	TRUE	PRN 6.940100e+01	0.54378476
948	4	IgG	TRUE	FHA 1.242109e+02	2.24124315
949	5	IgG	TRUE	PT 1.399996e+02	7.63025546
950	5	IgG	TRUE	PRN 7.456771e+01	0.58426802

951	5	IgG	TRUE	FHA	1.405517e+02	2.53609433
952	6	IgG	TRUE	PT	1.158109e+02	6.31192769
953	6	IgG	TRUE	PRN	6.867918e+01	0.53812901
954	6	IgG	TRUE	FHA	1.347001e+02	2.43050802
955	7	IgG	TRUE	PT	5.811900e+01	3.16760167
956	7	IgG	TRUE	PRN	6.029994e+01	0.47247427
957	7	IgG	TRUE	FHA	1.212436e+02	2.18770201
958	1	IgG	TRUE	PT	7.738694e+00	0.42177432
959	1	IgG	TRUE	PRN	3.177580e+01	0.24897621
960	1	IgG	TRUE	FHA	2.931012e+01	0.52886735
961	2	IgG	TRUE	PT	6.993442e+00	0.38115658
962	2	IgG	TRUE	PRN	2.944418e+01	0.23070696
963	2	IgG	TRUE	FHA	2.841115e+01	0.51264647
964	3	IgG	TRUE	PT	3.478644e+00	0.18959303
965	3	IgG	TRUE	PRN	1.667368e+01	0.13064497
966	3	IgG	TRUE	FHA	1.695892e+01	0.30600420
967	4	IgG	TRUE	PT	1.656378e+01	0.90275896
968	4	IgG	TRUE	PRN	3.051792e+02	2.39120190
969	4	IgG	TRUE	FHA	7.735306e+01	1.39574702
970	5	IgG	TRUE	PT	5.288206e+01	2.88217808
971	5	IgG	TRUE	PRN	7.986072e+01	0.62574085
972	5	IgG	TRUE	FHA	1.484949e+02	2.67942011
973	6	IgG	TRUE	PT	4.468982e+01	2.43568435
974	6	IgG	TRUE	PRN	7.516468e+01	0.58894548
975	6	IgG	TRUE	FHA	1.380163e+02	2.49034494
976	7	IgG	TRUE	PT	2.099432e+01	1.14423265
977	7	IgG	TRUE	PRN	6.537762e+02	5.12259946
978	7	IgG	TRUE	FHA	1.145478e+02	2.06688352
979	1	IgG	TRUE	PT	2.889154e+01	1.57464676
980	1	IgG	TRUE	PRN	3.171505e+01	0.24850018
981	1	IgG	TRUE	FHA	3.607467e+01	0.65092588
982	2	IgG	TRUE	PT	2.841253e+01	1.54853942
983	2	IgG	TRUE	PRN	3.238278e+01	0.25373213
984	2	IgG	TRUE	FHA	3.626359e+01	0.65433471
985	3	IgG	TRUE	PT	2.086143e+01	1.13698953
986	3	IgG	TRUE	PRN	3.658080e+02	2.86625271
987	3	IgG	TRUE	FHA	8.628959e+01	1.55699630
988	4	IgG	TRUE	PT	3.855953e+01	2.10157135
989	4	IgG	TRUE	PRN	5.204943e+02	4.07828188
990	4	IgG	TRUE	FHA	9.497288e+01	1.71367633
991	5	IgG	TRUE	PT	7.357354e+01	4.00990527
992	5	IgG	TRUE	PRN	8.217151e+01	0.64384683
993	5	IgG	TRUE	FHA	1.385960e+02	2.50080493

994	1	IgG	TRUE	PT	5.363396e+01	2.92315807
995	1	IgG	TRUE	PRN	2.490808e+02	1.95164813
996	1	IgG	TRUE	FHA	6.400000e-02	0.08443681
997	2	IgG	TRUE	PT	4.938502e+01	2.69158207
998	2	IgG	TRUE	PRN	2.376116e+02	1.86178280
999	2	IgG	TRUE	FHA	3.275280e+03	59.09866446
1000	3	IgG	TRUE	PT	5.360000e-01	0.02921307
1001	3	IgG	TRUE	PRN	5.143033e+01	0.40297732
1002	3	IgG	TRUE	FHA	1.301138e+02	2.34775303
1003	4	IgG	TRUE	PT	6.486963e+01	3.53552427
1004	4	IgG	TRUE	PRN	5.776445e+01	0.45260770
1005	4	IgG	TRUE	FHA	1.374998e+02	2.48102495
1006	5	IgG	TRUE	PT	1.099980e+02	5.99511003
1007	5	IgG	TRUE	PRN	6.913304e+01	0.54168516
1008	5	IgG	TRUE	FHA	1.678602e+02	3.02884363
1009	6	IgG	TRUE	PT	3.593304e+01	1.95842264
1010	6	IgG	TRUE	PRN	6.080802e+01	0.47645529
1011	6	IgG	TRUE	FHA	1.409726e+02	2.54368858
1012	7	IgG	TRUE	PT	2.182097e+01	1.18928641
1013	7	IgG	TRUE	PRN	5.993530e+01	0.46961722
1014	7	IgG	TRUE	FHA	1.386949e+02	2.50258983
1015	1	IgG	TRUE	PT	3.135649e+02	17.08991541
1016	1	IgG	TRUE	PRN	4.922250e+01	0.38567806
1017	1	IgG	TRUE	FHA	1.520250e+02	2.74311657
1018	2	IgG	TRUE	PT	1.626649e+02	8.86556036
1019	2	IgG	TRUE	PRN	2.988739e+01	0.23417971
1020	2	IgG	TRUE	FHA	1.662803e+02	3.00033714
1021	3	IgG	TRUE	PT	1.126574e+02	6.14005148
1022	3	IgG	TRUE	PRN	2.294542e+01	0.17978656
1023	3	IgG	TRUE	FHA	1.236309e+02	2.23077721
1024	4	IgG	TRUE	PT	1.235583e+02	6.73417266
1025	4	IgG	TRUE	PRN	4.913634e+01	0.38500300
1026	4	IgG	TRUE	FHA	1.193329e+02	2.15322429
1027	5	IgG	TRUE	PT	2.192793e+02	11.95116199
1028	5	IgG	TRUE	PRN	6.055229e+01	0.47445156
1029	5	IgG	TRUE	FHA	1.671654e+02	3.01630766
1030	6	IgG	TRUE	PT	1.401067e+02	7.63609789
1031	6	IgG	TRUE	PRN	4.806651e+01	0.37662044
1032	6	IgG	TRUE	FHA	1.419408e+02	2.56115882
1033	7	IgG	TRUE	PT	1.270450e+02	6.92420856
1034	7	IgG	TRUE	PRN	4.701240e+01	0.36836110
1035	7	IgG	TRUE	FHA	1.389588e+02	2.50735244
1036	1	IgG	TRUE	PT	6.455294e+01	3.51826438

1037	1	IgG	TRUE	PRN 4.702003e+01	0.36842086
1038	1	IgG	TRUE	FHA 1.080488e+02	1.94961650
1039	2	IgG	TRUE	PT 5.466709e+01	2.97946590
1040	2	IgG	TRUE	PRN 4.620616e+01	0.36204381
1041	2	IgG	TRUE	FHA 1.051380e+02	1.89709431
1042	3	IgG	TRUE	PT 3.128600e+01	1.70514930
1043	3	IgG	TRUE	PRN 4.432966e+01	0.34734073
1044	3	IgG	TRUE	FHA 1.017924e+02	1.83672583
1045	4	IgG	TRUE	PT 1.342113e+02	7.31478393
1046	4	IgG	TRUE	PRN 6.256318e+01	0.49020765
1047	4	IgG	TRUE	FHA 1.117118e+02	2.01571100
1048	5	IgG	TRUE	PT 1.723631e+02	9.39413524
1049	5	IgG	TRUE	PRN 6.951504e+01	0.54467831
1050	5	IgG	TRUE	FHA 1.212905e+02	2.18854747
1051	6	IgG	TRUE	PT 1.583413e+02	8.62991960
1052	6	IgG	TRUE	PRN 6.487054e+01	0.50828675
1053	6	IgG	TRUE	FHA 1.307184e+02	2.35866265
1054	7	IgG	TRUE	PT 1.506017e+02	8.20809541
1055	7	IgG	TRUE	PRN 6.609337e+01	0.51786811
1056	7	IgG	TRUE	FHA 1.232169e+02	2.22330785
1057	1	IgG	TRUE	PT 6.236853e+00	0.33992094
1058	1	IgG	TRUE	PRN 1.225554e+02	0.96027090
1059	1	IgG	TRUE	FHA 3.303900e+01	0.59615069
1060	2	IgG	TRUE	PT 8.250169e+00	0.44965073
1061	2	IgG	TRUE	PRN 1.656491e+02	1.29792752
1062	2	IgG	TRUE	FHA 4.247567e+01	0.76642449
1063	3	IgG	TRUE	PT 3.960090e+00	0.21583280
1064	3	IgG	TRUE	PRN 8.631703e+01	0.67632863
1065	3	IgG	TRUE	FHA 2.696432e+01	0.48654013
1066	4	IgG	TRUE	PT 4.716210e+01	2.57042853
1067	4	IgG	TRUE	PRN 6.560906e+01	0.51407337
1068	4	IgG	TRUE	FHA 1.197446e+02	2.16065298
1069	5	IgG	TRUE	PT 1.206523e+02	6.57578973
1070	5	IgG	TRUE	PRN 7.409696e+01	0.58057950
1071	5	IgG	TRUE	FHA 1.352279e+02	2.44003253
1072	6	IgG	TRUE	PT 9.477905e+01	5.16564782
1073	6	IgG	TRUE	PRN 7.223840e+01	0.56601689
1074	6	IgG	TRUE	FHA 1.218390e+02	2.19844500
1075	7	IgG	TRUE	PT 9.057606e+01	4.93657616
1076	7	IgG	TRUE	PRN 7.185824e+01	0.56303824
1077	7	IgG	TRUE	FHA 1.208574e+02	2.18073251
1078	1	IgG	TRUE	PT 1.520603e+02	8.28759185
1079	1	IgG	TRUE	PRN 4.939791e+01	0.38705253

1080	1	IgG	TRUE	FHA	6.532508e+01	1.17871580
1081	2	IgG	TRUE	PT	1.637493e+02	8.92466390
1082	2	IgG	TRUE	PRN	5.032131e+01	0.39428772
1083	2	IgG	TRUE	FHA	7.614673e+01	1.37398017
1084	3	IgG	TRUE	PT	1.690590e+02	9.21405607
1085	3	IgG	TRUE	PRN	5.051632e+01	0.39581571
1086	3	IgG	TRUE	FHA	7.969666e+01	1.43803450
1087	4	IgG	TRUE	PT	1.975188e+02	10.76516737
1088	4	IgG	TRUE	PRN	5.937423e+01	0.46522095
1089	4	IgG	TRUE	FHA	1.071585e+02	1.93355169
1090	5	IgG	TRUE	PT	2.025211e+02	11.03780589
1091	5	IgG	TRUE	PRN	6.119502e+01	0.47948763
1092	5	IgG	TRUE	FHA	1.135108e+02	2.04817157
1093	6	IgG	TRUE	PT	1.766280e+02	9.62657769
1094	6	IgG	TRUE	PRN	5.737026e+01	0.44951908
1095	6	IgG	TRUE	FHA	1.057175e+02	1.90754974
1096	7	IgG	TRUE	PT	1.500179e+02	8.17627776
1097	7	IgG	TRUE	PRN	5.329460e+01	0.41758466
1098	7	IgG	TRUE	FHA	9.552736e+01	1.72368130
1099	1	IgG	TRUE	PT	3.751622e+00	0.20447092
1100	1	IgG	TRUE	PRN	1.048392e+01	0.08214574
1101	1	IgG	TRUE	FHA	6.907343e+00	0.12463505
1102	2	IgG	TRUE	PT	1.427234e+00	0.07778712
1103	2	IgG	TRUE	PRN	6.205949e+00	0.04862611
1104	2	IgG	TRUE	FHA	4.679535e+00	0.08443681
1105	3	IgG	TRUE	PT	4.464164e+00	0.24330586
1106	3	IgG	TRUE	PRN	1.292499e+01	0.10127252
1107	3	IgG	TRUE	FHA	7.960990e+00	0.14364691
1108	4	IgG	TRUE	PT	6.028974e+01	3.28591154
1109	4	IgG	TRUE	PRN	6.302496e+01	0.49382589
1110	4	IgG	TRUE	FHA	1.144332e+02	2.06481514
1111	5	IgG	TRUE	PT	8.300331e+01	4.52384648
1112	5	IgG	TRUE	PRN	6.966241e+01	0.54583301
1113	5	IgG	TRUE	FHA	1.243862e+02	2.24440546
1114	6	IgG	TRUE	PT	7.641164e+01	4.16458701
1115	6	IgG	TRUE	PRN	7.105045e+01	0.55670885
1116	6	IgG	TRUE	FHA	1.249747e+02	2.25502390
1117	7	IgG	TRUE	PT	3.410543e+01	1.85881424
1118	7	IgG	TRUE	PRN	9.599173e+02	7.52133802
1119	7	IgG	TRUE	FHA	1.070672e+02	1.93190476
1120	1	IgG	TRUE	PT	1.598721e+01	0.87133475
1121	1	IgG	TRUE	PRN	2.997901e+01	0.23489761
1122	1	IgG	TRUE	FHA	6.383670e+01	1.15185979

1123	2	IgG	TRUE	PT	2.552458e+01	1.39114064
1124	2	IgG	TRUE	PRN	4.919889e+01	0.38549309
1125	2	IgG	TRUE	FHA	1.061986e+02	1.91623065
1126	3	IgG	TRUE	PT	3.062824e+01	1.66930048
1127	3	IgG	TRUE	PRN	5.856023e+01	0.45884298
1128	3	IgG	TRUE	FHA	1.251193e+02	2.25763411
1129	4	IgG	TRUE	PT	1.850249e+02	10.08422490
1130	4	IgG	TRUE	PRN	6.585658e+01	0.51601279
1131	4	IgG	TRUE	FHA	1.389610e+02	2.50739138
1132	5	IgG	TRUE	PT	2.233094e+02	12.17081132
1133	5	IgG	TRUE	PRN	7.627330e+01	0.59763200
1134	5	IgG	TRUE	FHA	1.752777e+02	3.16268449
1135	6	IgG	TRUE	PT	1.962044e+02	10.69353185
1136	6	IgG	TRUE	PRN	7.413431e+01	0.58087211
1137	6	IgG	TRUE	FHA	1.617351e+02	2.91832354
1138	7	IgG	TRUE	PT	8.720626e+01	4.75291554
1139	7	IgG	TRUE	PRN	6.274321e+01	0.49161832
1140	7	IgG	TRUE	FHA	1.340061e+02	2.41798658
1141	1	IgG	TRUE	PT	1.254752e+01	0.68386505
1142	1	IgG	TRUE	PRN	8.270056e+00	0.06479921
1143	1	IgG	TRUE	FHA	4.203707e+01	0.75851064
1144	2	IgG	TRUE	PT	2.148568e+01	1.17101229
1145	2	IgG	TRUE	PRN	1.194931e+01	0.09362761
1146	2	IgG	TRUE	FHA	6.521463e+01	1.17672293
1147	3	IgG	TRUE	PT	3.937680e+01	2.14611450
1148	3	IgG	TRUE	PRN	2.197110e+01	0.17215243
1149	3	IgG	TRUE	FHA	1.061541e+02	1.91542947
1150	4	IgG	TRUE	PT	1.058576e+02	5.76945289
1151	4	IgG	TRUE	PRN	5.662650e+01	0.44369138
1152	4	IgG	TRUE	FHA	1.367028e+02	2.46664405
1153	5	IgG	TRUE	PT	3.529587e+02	19.23695317
1154	5	IgG	TRUE	PRN	1.335241e+03	10.46215114
1155	5	IgG	TRUE	FHA	2.271388e+03	40.98458310
1156	6	IgG	TRUE	PT	1.533711e+04	0.02888606
1157	6	IgG	TRUE	PRN	6.370275e+03	49.91366668
1158	6	IgG	TRUE	FHA	2.000000e+03	36.08769823
1159	7	IgG	TRUE	PT	1.920847e+02	10.46900269
1160	7	IgG	TRUE	PRN	6.163903e+01	0.48296660
1161	7	IgG	TRUE	FHA	1.769763e+02	3.19333427
1162	1	IgG	TRUE	PT	5.360000e-01	0.02921307
1163	1	IgG	TRUE	PRN	1.332141e+02	1.04378636
1164	1	IgG	TRUE	FHA	2.236871e+01	0.40361763
1165	2	IgG	TRUE	PT	5.360000e-01	0.02921307

1166	2	IgG	TRUE	PRN	1.585782e+02	1.24252434
1167	2	IgG	TRUE	FHA	2.808052e+01	0.50668068
1168	3	IgG	TRUE	PT	5.360000e-01	0.02921307
1169	3	IgG	TRUE	PRN	1.110119e+02	0.86982289
1170	3	IgG	TRUE	FHA	1.937673e+01	0.34963073
1171	4	IgG	TRUE	PT	2.118372e+01	1.15455529
1172	4	IgG	TRUE	PRN	1.424639e+03	11.16261696
1173	4	IgG	TRUE	FHA	6.400000e-02	0.08443681
1174	5	IgG	TRUE	PT	3.155439e+01	1.71977739
1175	5	IgG	TRUE	PRN	1.128220e+03	8.84006000
1176	5	IgG	TRUE	FHA	6.400000e-02	0.08443681
1177	6	IgG	TRUE	PT	4.176455e+01	2.27625121
1178	6	IgG	TRUE	PRN	1.590749e+03	12.46415706
1179	6	IgG	TRUE	FHA	6.400000e-02	0.08443681
1180	7	IgG	TRUE	PT	1.048244e+01	0.57131410
1181	7	IgG	TRUE	PRN	1.043822e+03	8.17876713
1182	7	IgG	TRUE	FHA	2.450296e+02	4.42127760
1183	1	IgG	FALSE	PRN	7.001375e+02	0.11058075
1184	1	IgG	FALSE	DT	8.924455e+03	0.70605606
1185	1	IgG	FALSE	FHA	2.362402e+03	10.64237279
1186	1	IgG	FALSE	FIM2/3	7.557511e+02	1.42460152
1187	1	IgG	FALSE	TT	1.472759e+04	1.10909319
1188	1	IgG	FALSE	PT	1.127500e+02	1.00000000
1189	1	IgG	FALSE	OVA	2.083997e+03	0.54042099
1190	2	IgG	FALSE	PRN	7.098875e+02	0.11212068
1191	2	IgG	FALSE	DT	8.400705e+03	0.66461971
1192	2	IgG	FALSE	FHA	2.368902e+03	10.67165461
1193	2	IgG	FALSE	FIM2/3	7.515011e+02	1.41659021
1194	2	IgG	FALSE	TT	1.409309e+04	1.06131079
1195	2	IgG	FALSE	PT	1.112500e+02	0.98669623
1196	2	IgG	FALSE	OVA	2.048747e+03	0.53127998
1197	3	IgG	FALSE	PRN	7.106375e+02	0.11223913
1198	3	IgG	FALSE	DT	9.138955e+03	0.72302618
1199	3	IgG	FALSE	FHA	2.369402e+03	10.67390705
1200	3	IgG	FALSE	FIM2/3	7.792511e+02	1.46889935
1201	3	IgG	FALSE	TT	1.494334e+04	1.12534072
1202	3	IgG	FALSE	PT	1.255000e+02	1.11308204
1203	3	IgG	FALSE	OVA	2.176747e+03	0.56447288
1204	4	IgG	FALSE	PRN	7.968138e+03	1.25849938
1205	4	IgG	FALSE	DT	2.135920e+04	1.68982827
1206	4	IgG	FALSE	FHA	3.195902e+03	14.39720232
1207	4	IgG	FALSE	FIM2/3	8.935251e+03	16.84307466
1208	4	IgG	FALSE	TT	2.471959e+04	1.86156247

1209	4	IgG	FALSE	PT	2.242500e+02	1.98891353
1210	4	IgG	FALSE	OVA	1.881997e+03	0.48803845
1211	5	IgG	FALSE	PRN	1.588739e+04	2.50927740
1212	5	IgG	FALSE	DT	2.155970e+04	1.70569078
1213	5	IgG	FALSE	FHA	4.365152e+03	19.66455016
1214	5	IgG	FALSE	FIM2/3	1.433575e+04	27.02309351
1215	5	IgG	FALSE	TT	2.490559e+04	1.87556961
1216	5	IgG	FALSE	PT	3.040000e+02	2.69623060
1217	5	IgG	FALSE	OVA	1.904747e+03	0.49393797
1218	6	IgG	FALSE	PRN	1.258439e+04	1.98759671
1219	6	IgG	FALSE	DT	1.974745e+04	1.56231507
1220	6	IgG	FALSE	FHA	3.962902e+03	17.85245636
1221	6	IgG	FALSE	FIM2/3	1.488975e+04	28.06739134
1222	6	IgG	FALSE	TT	2.458284e+04	1.85126422
1223	6	IgG	FALSE	PT	2.740000e+02	2.43015521
1224	6	IgG	FALSE	OVA	2.116997e+03	0.54897854
1225	7	IgG	FALSE	PRN	7.003638e+03	1.10616483
1226	7	IgG	FALSE	DT	1.315520e+04	1.04077081
1227	7	IgG	FALSE	FHA	3.885402e+03	17.50332704
1228	7	IgG	FALSE	FIM2/3	1.171275e+04	22.07870143
1229	7	IgG	FALSE	TT	2.009159e+04	1.51304087
1230	7	IgG	FALSE	PT	1.717500e+02	1.52328160
1231	7	IgG	FALSE	OVA	1.991497e+03	0.51643394
1232	1	IgG	FALSE	PRN	4.325764e+03	0.68321752
1233	1	IgG	FALSE	DT	7.741689e+03	0.61248187
1234	1	IgG	FALSE	FHA	1.346575e+03	6.06617997
1235	1	IgG	FALSE	FIM2/3	3.251875e+03	6.12983105
1236	1	IgG	FALSE	TT	5.309390e+03	0.39983518
1237	1	IgG	FALSE	PT	1.249513e+02	1.10821532
1238	1	IgG	FALSE	OVA	5.539815e+03	1.43658207
1239	2	IgG	FALSE	PRN	7.003514e+03	1.10614531
1240	2	IgG	FALSE	DT	1.083719e+04	0.85738159
1241	2	IgG	FALSE	FHA	2.510575e+03	11.30987711
1242	2	IgG	FALSE	FIM2/3	5.633125e+03	10.61852096
1243	2	IgG	FALSE	TT	8.018390e+03	0.60384232
1244	2	IgG	FALSE	PT	2.752013e+02	2.44080956
1245	2	IgG	FALSE	OVA	8.565065e+03	2.22108843
1246	3	IgG	FALSE	PRN	7.880764e+03	1.24469946
1247	3	IgG	FALSE	DT	1.160994e+04	0.91851752
1248	3	IgG	FALSE	FHA	2.529575e+03	11.39547010
1249	3	IgG	FALSE	FIM2/3	6.206625e+03	11.69957657
1250	3	IgG	FALSE	TT	8.912390e+03	0.67116693
1251	3	IgG	FALSE	PT	2.632013e+02	2.33437940

1252	3	IgG	FALSE	OVA	9.291565e+03	2.40948406
1253	4	IgG	FALSE	PRN	1.572326e+04	2.48335547
1254	4	IgG	FALSE	DT	1.776394e+04	1.40538973
1255	4	IgG	FALSE	FHA	5.329825e+03	24.01030080
1256	4	IgG	FALSE	FIM2/3	5.776125e+03	10.88807798
1257	4	IgG	FALSE	TT	2.213814e+04	1.66716078
1258	4	IgG	FALSE	PT	8.522013e+02	7.55832619
1259	4	IgG	FALSE	OVA	5.465065e+03	1.41719794
1260	5	IgG	FALSE	PRN	2.203426e+04	3.48012411
1261	5	IgG	FALSE	DT	2.134844e+04	1.68897657
1262	5	IgG	FALSE	FHA	7.937075e+03	35.75568686
1263	5	IgG	FALSE	FIM2/3	7.595125e+03	14.31691870
1264	5	IgG	FALSE	TT	2.652689e+04	1.99766514
1265	5	IgG	FALSE	PT	1.548451e+03	13.73349248
1266	5	IgG	FALSE	OVA	5.766065e+03	1.49525311
1267	6	IgG	FALSE	PRN	2.254501e+04	3.56079272
1268	6	IgG	FALSE	DT	1.941619e+04	1.53610709
1269	6	IgG	FALSE	FHA	8.836325e+03	39.80671320
1270	6	IgG	FALSE	FIM2/3	6.942375e+03	13.08647572
1271	6	IgG	FALSE	TT	2.673839e+04	2.01359261
1272	6	IgG	FALSE	PT	1.194451e+03	10.59380290
1273	6	IgG	FALSE	OVA	4.234565e+03	1.09810527
1274	7	IgG	FALSE	PRN	2.209776e+04	3.49015340
1275	7	IgG	FALSE	DT	1.460544e+04	1.15550577
1276	7	IgG	FALSE	FHA	6.286825e+03	28.32148479
1277	7	IgG	FALSE	FIM2/3	6.233625e+03	11.75047195
1278	7	IgG	FALSE	TT	2.587964e+04	1.94892257
1279	7	IgG	FALSE	PT	6.799513e+02	6.03061000
1280	7	IgG	FALSE	OVA	3.278815e+03	0.85026065
1281	1	IgG	FALSE	PRN	5.022639e+02	0.07932830
1282	1	IgG	FALSE	DT	1.753694e+04	1.38743068
1283	1	IgG	FALSE	FHA	6.403254e+02	2.88459826
1284	1	IgG	FALSE	FIM2/3	1.060125e+03	1.99835131
1285	1	IgG	FALSE	TT	1.528839e+04	1.15132547
1286	1	IgG	FALSE	PT	2.787013e+02	2.47185168
1287	1	IgG	FALSE	OVA	8.467565e+03	2.19580478
1288	2	IgG	FALSE	PRN	8.830139e+02	0.13946452
1289	2	IgG	FALSE	DT	2.003494e+04	1.58505934
1290	2	IgG	FALSE	FHA	8.525754e+02	3.84076211
1291	2	IgG	FALSE	FIM2/3	1.858875e+03	3.50400635
1292	2	IgG	FALSE	TT	1.911939e+04	1.43982725
1293	2	IgG	FALSE	PT	4.414513e+02	3.91531066
1294	2	IgG	FALSE	OVA	1.162756e+04	3.01525444

1295	3	IgG	FALSE	PRN	1.007514e+03	0.15912823
1296	3	IgG	FALSE	DT	2.004319e+04	1.58571204
1297	3	IgG	FALSE	FHA	8.258254e+02	3.72025618
1298	3	IgG	FALSE	FIM2/3	2.053625e+03	3.87111286
1299	3	IgG	FALSE	TT	1.891089e+04	1.42412571
1300	3	IgG	FALSE	PT	4.984513e+02	4.42085390
1301	3	IgG	FALSE	OVA	1.150481e+04	2.98342297
1302	4	IgG	FALSE	PRN	1.057376e+04	1.67003585
1303	4	IgG	FALSE	DT	2.169544e+04	1.71642939
1304	4	IgG	FALSE	FHA	4.651825e+03	20.95598236
1305	4	IgG	FALSE	FIM2/3	2.112263e+04	39.81644745
1306	4	IgG	FALSE	TT	2.583714e+04	1.94572202
1307	4	IgG	FALSE	PT	1.526951e+03	13.54280512
1308	4	IgG	FALSE	OVA	7.512565e+03	1.94815464
1309	5	IgG	FALSE	PRN	1.716276e+04	2.71071222
1310	5	IgG	FALSE	DT	2.298644e+04	1.81856654
1311	5	IgG	FALSE	FHA	7.493825e+03	33.75889239
1312	5	IgG	FALSE	FIM2/3	2.520413e+04	47.51013265
1313	5	IgG	FALSE	TT	2.622414e+04	1.97486589
1314	5	IgG	FALSE	PT	1.916701e+03	16.99956787
1315	5	IgG	FALSE	OVA	7.869315e+03	2.04066688
1316	6	IgG	FALSE	PRN	9.715764e+03	1.53452207
1317	6	IgG	FALSE	DT	2.009544e+04	1.58984578
1318	6	IgG	FALSE	FHA	5.216575e+03	23.50012150
1319	6	IgG	FALSE	FIM2/3	2.033038e+04	38.32304499
1320	6	IgG	FALSE	TT	2.595714e+04	1.95475888
1321	6	IgG	FALSE	PT	1.150701e+03	10.20577630
1322	6	IgG	FALSE	OVA	5.934065e+03	1.53881879
1323	7	IgG	FALSE	PRN	6.190764e+03	0.97777837
1324	7	IgG	FALSE	DT	1.781894e+04	1.40974104
1325	7	IgG	FALSE	FHA	3.145825e+03	14.17161131
1326	7	IgG	FALSE	FIM2/3	1.656163e+04	31.21889796
1327	7	IgG	FALSE	TT	2.393314e+04	1.80233716
1328	7	IgG	FALSE	PT	7.489513e+02	6.64258339
1329	7	IgG	FALSE	OVA	7.372565e+03	1.91184991
1330	1	IgG	FALSE	PRN	5.482014e+03	0.86583735
1331	1	IgG	FALSE	DT	1.792544e+04	1.41816676
1332	1	IgG	FALSE	FHA	1.209325e+03	5.44788320
1333	1	IgG	FALSE	FIM2/3	8.158875e+03	15.37959542
1334	1	IgG	FALSE	TT	1.737414e+04	1.30839741
1335	1	IgG	FALSE	PT	3.532013e+02	3.13260556
1336	1	IgG	FALSE	OVA	8.395815e+03	2.17719860
1337	2	IgG	FALSE	PRN	9.677764e+03	1.52852029

1338	2	IgG	FALSE	DT	1.989044e+04	1.57362726
1339	2	IgG	FALSE	FHA	1.738825e+03	7.83322481
1340	2	IgG	FALSE	FIM2/3	1.241288e+04	23.39844556
1341	2	IgG	FALSE	TT	2.020114e+04	1.52129079
1342	2	IgG	FALSE	PT	5.067013e+02	4.49402463
1343	2	IgG	FALSE	OVA	1.085956e+04	2.81609705
1344	3	IgG	FALSE	PRN	9.493764e+03	1.49945906
1345	3	IgG	FALSE	DT	2.003569e+04	1.58511868
1346	3	IgG	FALSE	FHA	1.783575e+03	8.03481884
1347	3	IgG	FALSE	FIM2/3	1.213113e+04	22.86734283
1348	3	IgG	FALSE	TT	1.992364e+04	1.50039305
1349	3	IgG	FALSE	PT	4.767013e+02	4.22794925
1350	3	IgG	FALSE	OVA	1.030131e+04	2.67133194
1351	4	IgG	FALSE	PRN	7.313764e+03	1.15514665
1352	4	IgG	FALSE	DT	1.959044e+04	1.54989283
1353	4	IgG	FALSE	FHA	1.936575e+03	8.72406769
1354	4	IgG	FALSE	FIM2/3	9.155125e+03	17.25754075
1355	4	IgG	FALSE	TT	2.302339e+04	1.73382646
1356	4	IgG	FALSE	PT	4.432013e+02	3.93083173
1357	4	IgG	FALSE	OVA	8.569315e+03	2.22219054
1358	5	IgG	FALSE	PRN	1.233876e+04	1.94880255
1359	5	IgG	FALSE	DT	2.182769e+04	1.72689232
1360	5	IgG	FALSE	FHA	5.601075e+03	25.23225342
1361	5	IgG	FALSE	FIM2/3	1.095338e+04	20.64726743
1362	5	IgG	FALSE	TT	2.591664e+04	1.95170894
1363	5	IgG	FALSE	PT	5.584513e+02	4.95300468
1364	5	IgG	FALSE	OVA	9.058065e+03	2.34893295
1365	6	IgG	FALSE	PRN	1.118526e+04	1.76661706
1366	6	IgG	FALSE	DT	2.131294e+04	1.68616800
1367	6	IgG	FALSE	FHA	4.663325e+03	21.00778864
1368	6	IgG	FALSE	FIM2/3	9.581375e+03	18.06102803
1369	6	IgG	FALSE	TT	2.573314e+04	1.93789007
1370	6	IgG	FALSE	PT	4.584513e+02	4.06608672
1371	6	IgG	FALSE	OVA	8.434565e+03	2.18724723
1372	7	IgG	FALSE	PRN	1.181201e+04	1.86560688
1373	7	IgG	FALSE	DT	1.999019e+04	1.58151896
1374	7	IgG	FALSE	FHA	3.808575e+03	17.15723011
1375	7	IgG	FALSE	FIM2/3	9.943625e+03	18.74387440
1376	7	IgG	FALSE	TT	2.453489e+04	1.84765325
1377	7	IgG	FALSE	PT	4.084513e+02	3.62262774
1378	7	IgG	FALSE	OVA	8.637315e+03	2.23982426
1379	1	IgG	FALSE	PRN	3.538388e+03	0.55885814
1380	1	IgG	FALSE	DT	1.527045e+04	1.20811830

1381	1	IgG	FALSE	FHA	1.984402e+03	8.93952269
1382	1	IgG	FALSE	FIM2/3	3.267511e+02	0.61593045
1383	1	IgG	FALSE	TT	1.891584e+04	1.42449846
1384	1	IgG	FALSE	PT	8.375000e+01	0.74279379
1385	1	IgG	FALSE	OVA	6.706997e+03	1.73925510
1386	2	IgG	FALSE	PRN	3.524638e+03	0.55668644
1387	2	IgG	FALSE	DT	1.454020e+04	1.15034475
1388	2	IgG	FALSE	FHA	2.091402e+03	9.42154640
1389	2	IgG	FALSE	FIM2/3	3.140011e+02	0.59189652
1390	2	IgG	FALSE	TT	1.828834e+04	1.37724321
1391	2	IgG	FALSE	PT	8.375000e+01	0.74279379
1392	2	IgG	FALSE	OVA	6.577747e+03	1.70573806
1393	3	IgG	FALSE	PRN	3.459138e+03	0.54634128
1394	3	IgG	FALSE	DT	1.474445e+04	1.16650394
1395	3	IgG	FALSE	FHA	2.356152e+03	10.61421720
1396	3	IgG	FALSE	FIM2/3	3.637511e+02	0.68567598
1397	3	IgG	FALSE	TT	1.834959e+04	1.38185578
1398	3	IgG	FALSE	PT	1.020000e+02	0.90465632
1399	3	IgG	FALSE	OVA	6.806997e+03	1.76518706
1400	4	IgG	FALSE	PRN	2.131739e+04	3.36689960
1401	4	IgG	FALSE	DT	2.062345e+04	1.63161959
1402	4	IgG	FALSE	FHA	3.015652e+03	13.58519509
1403	4	IgG	FALSE	FIM2/3	1.307175e+04	24.64043564
1404	4	IgG	FALSE	TT	2.429084e+04	1.82927452
1405	4	IgG	FALSE	PT	5.045000e+02	4.47450111
1406	4	IgG	FALSE	OVA	6.576997e+03	1.70554357
1407	5	IgG	FALSE	PRN	2.256489e+04	3.56393159
1408	5	IgG	FALSE	DT	2.237645e+04	1.77030776
1409	5	IgG	FALSE	FHA	4.675152e+03	21.06106744
1410	5	IgG	FALSE	FIM2/3	1.657775e+04	31.24929520
1411	5	IgG	FALSE	TT	2.568684e+04	1.93440334
1412	5	IgG	FALSE	PT	1.837750e+03	16.29933481
1413	5	IgG	FALSE	OVA	6.368497e+03	1.65147545
1414	6	IgG	FALSE	PRN	2.047214e+04	3.23339957
1415	6	IgG	FALSE	DT	2.053120e+04	1.62432126
1416	6	IgG	FALSE	FHA	3.935152e+03	17.72744554
1417	6	IgG	FALSE	FIM2/3	1.532100e+04	28.88030369
1418	6	IgG	FALSE	TT	2.473184e+04	1.86248499
1419	6	IgG	FALSE	PT	1.243250e+03	11.02660754
1420	6	IgG	FALSE	OVA	5.963997e+03	1.54658071
1421	7	IgG	FALSE	PRN	2.027164e+04	3.20173230
1422	7	IgG	FALSE	DT	1.674420e+04	1.32471367
1423	7	IgG	FALSE	FHA	3.543902e+03	15.96490559

1424	7	IgG	FALSE	FIM2/3	1.155425e+04	21.77992668
1425	7	IgG	FALSE	TT	2.305559e+04	1.73625134
1426	7	IgG	FALSE	PT	7.807500e+02	6.92461197
1427	7	IgG	FALSE	OVA	6.155247e+03	1.59617556
1428	1	IgG	FALSE	PRN	1.084539e+04	1.71293649
1429	1	IgG	FALSE	DT	1.159095e+04	0.91701556
1430	1	IgG	FALSE	FHA	2.757652e+03	12.42293232
1431	1	IgG	FALSE	FIM2/3	8.417251e+03	15.86663733
1432	1	IgG	FALSE	TT	1.651884e+04	1.24398717
1433	1	IgG	FALSE	PT	1.697500e+02	1.50554324
1434	1	IgG	FALSE	OVA	5.226997e+03	1.35546222
1435	2	IgG	FALSE	PRN	1.048039e+04	1.65528785
1436	2	IgG	FALSE	DT	1.123870e+04	0.88914738
1437	2	IgG	FALSE	FHA	1.956152e+03	8.81225942
1438	2	IgG	FALSE	FIM2/3	8.087001e+03	15.24411142
1439	2	IgG	FALSE	TT	1.623384e+04	1.22252463
1440	2	IgG	FALSE	PT	1.477500e+02	1.31042129
1441	2	IgG	FALSE	OVA	5.209997e+03	1.35105379
1442	3	IgG	FALSE	PRN	1.080764e+04	1.70697420
1443	3	IgG	FALSE	DT	1.115620e+04	0.88262042
1444	3	IgG	FALSE	FHA	2.353402e+03	10.60182874
1445	3	IgG	FALSE	FIM2/3	7.962751e+03	15.00989841
1446	3	IgG	FALSE	TT	1.592809e+04	1.19949946
1447	3	IgG	FALSE	PT	1.497500e+02	1.32815965
1448	3	IgG	FALSE	OVA	5.423497e+03	1.40641851
1449	4	IgG	FALSE	PRN	2.220714e+04	3.50742803
1450	4	IgG	FALSE	DT	2.258670e+04	1.78694164
1451	4	IgG	FALSE	FHA	3.435902e+03	15.47837699
1452	4	IgG	FALSE	FIM2/3	1.204050e+04	22.69651481
1453	4	IgG	FALSE	TT	2.454609e+04	1.84849668
1454	4	IgG	FALSE	PT	1.849000e+03	16.39911308
1455	4	IgG	FALSE	OVA	5.962997e+03	1.54632139
1456	5	IgG	FALSE	PRN	2.261689e+04	3.57214454
1457	5	IgG	FALSE	DT	2.378495e+04	1.88174089
1458	5	IgG	FALSE	FHA	4.361902e+03	19.64990925
1459	5	IgG	FALSE	FIM2/3	1.187625e+04	22.38690124
1460	5	IgG	FALSE	TT	2.576684e+04	1.94042791
1461	5	IgG	FALSE	PT	2.059500e+03	18.26607539
1462	5	IgG	FALSE	OVA	6.143497e+03	1.59312856
1463	6	IgG	FALSE	PRN	2.053464e+04	3.24327091
1464	6	IgG	FALSE	DT	2.274120e+04	1.79916487
1465	6	IgG	FALSE	FHA	3.798652e+03	17.11252745
1466	6	IgG	FALSE	FIM2/3	1.026175e+04	19.34354591

1467	6	IgG	FALSE	TT	2.420859e+04	1.82308051
1468	6	IgG	FALSE	PT	1.194750e+03	10.59645233
1469	6	IgG	FALSE	OVA	5.362997e+03	1.39072968
1470	7	IgG	FALSE	PRN	1.302564e+04	2.05728838
1471	7	IgG	FALSE	DT	1.791870e+04	1.41763396
1472	7	IgG	FALSE	FHA	3.065152e+03	13.80818737
1473	7	IgG	FALSE	FIM2/3	8.621001e+03	16.25070897
1474	7	IgG	FALSE	TT	1.969309e+04	1.48303097
1475	7	IgG	FALSE	PT	4.175000e+02	3.70288248
1476	7	IgG	FALSE	OVA	5.129247e+03	1.33011374
1477	1	IgG	FALSE	PRN	1.778957e+03	0.28097117
1478	1	IgG	FALSE	DT	2.873207e+03	0.22731304
1479	1	IgG	FALSE	FHA	6.719616e+02	3.02711594
1480	1	IgG	FALSE	FIM2/3	1.976974e+02	0.37266247
1481	1	IgG	FALSE	TT	1.017206e+04	0.76602945
1482	1	IgG	FALSE	PT	7.120006e+01	0.63148614
1483	1	IgG	FALSE	OVA	1.520128e+01	0.01895946
1484	2	IgG	FALSE	PRN	1.941707e+03	0.30667614
1485	2	IgG	FALSE	DT	3.149207e+03	0.24914871
1486	2	IgG	FALSE	FHA	1.334616e+02	0.60123027
1487	2	IgG	FALSE	FIM2/3	5.094744e+01	0.09603665
1488	2	IgG	FALSE	TT	1.034781e+04	0.77926468
1489	2	IgG	FALSE	PT	6.645006e+01	0.58935754
1490	2	IgG	FALSE	OVA	1.870128e+01	0.01895946
1491	3	IgG	FALSE	PRN	1.665707e+03	0.26308430
1492	3	IgG	FALSE	DT	2.841457e+03	0.22480114
1493	3	IgG	FALSE	FHA	9.079616e+02	4.09027103
1494	3	IgG	FALSE	FIM2/3	2.344474e+02	0.44193674
1495	3	IgG	FALSE	TT	1.017206e+04	0.76602945
1496	3	IgG	FALSE	PT	6.445006e+01	0.57161918
1497	3	IgG	FALSE	OVA	1.120128e+01	0.01895946
1498	4	IgG	FALSE	PRN	1.072446e+04	1.69383662
1499	4	IgG	FALSE	DT	1.424196e+04	1.12674892
1500	4	IgG	FALSE	FHA	1.405462e+03	6.33145602
1501	4	IgG	FALSE	FIM2/3	2.565447e+03	4.83590470
1502	4	IgG	FALSE	TT	1.966056e+04	1.48058156
1503	4	IgG	FALSE	PT	3.694501e+02	3.27671896
1504	4	IgG	FALSE	OVA	2.820128e+01	0.01895946
1505	5	IgG	FALSE	PRN	1.971146e+04	3.11325665
1506	5	IgG	FALSE	DT	2.070321e+04	1.63792914
1507	5	IgG	FALSE	FHA	2.346462e+03	10.57056170
1508	5	IgG	FALSE	FIM2/3	7.919447e+03	14.92827039
1509	5	IgG	FALSE	TT	2.490806e+04	1.87575596

1510	5	IgG	FALSE	PT	2.128450e+03	18.87760587
1511	5	IgG	FALSE	OVA	4.045128e+01	0.01895946
1512	6	IgG	FALSE	PRN	1.901921e+04	3.00392166
1513	6	IgG	FALSE	DT	1.841421e+04	1.45683546
1514	6	IgG	FALSE	FHA	1.204962e+03	5.42822468
1515	6	IgG	FALSE	FIM2/3	4.071447e+03	7.67473599
1516	6	IgG	FALSE	TT	2.337331e+04	1.76017827
1517	6	IgG	FALSE	PT	1.606200e+03	14.24567683
1518	6	IgG	FALSE	OVA	3.445128e+01	0.01895946
1519	7	IgG	FALSE	PRN	1.514296e+04	2.39170102
1520	7	IgG	FALSE	DT	1.203146e+04	0.95186575
1521	7	IgG	FALSE	FHA	8.744616e+02	3.93935706
1522	7	IgG	FALSE	FIM2/3	1.210197e+03	2.28123929
1523	7	IgG	FALSE	TT	1.866306e+04	1.40546266
1524	7	IgG	FALSE	PT	8.214501e+02	7.28558814
1525	7	IgG	FALSE	OVA	2.520128e+01	0.01895946
1526	1	IgG	FALSE	PRN	1.800571e+04	2.84384825
1527	1	IgG	FALSE	DT	6.941457e+03	0.54917172
1528	1	IgG	FALSE	FHA	2.594299e+02	1.16870436
1529	1	IgG	FALSE	FIM2/3	4.774447e+03	8.99990093
1530	1	IgG	FALSE	TT	1.603031e+04	1.20719770
1531	1	IgG	FALSE	PT	1.214474e+02	1.07713917
1532	1	IgG	FALSE	OVA	1.208623e+02	0.03134196
1533	2	IgG	FALSE	PRN	1.738546e+04	2.74588505
1534	2	IgG	FALSE	DT	6.600207e+03	0.52217381
1535	2	IgG	FALSE	FHA	2.809299e+02	1.26555959
1536	2	IgG	FALSE	FIM2/3	3.767697e+03	7.10216294
1537	2	IgG	FALSE	TT	1.570506e+04	1.18270404
1538	2	IgG	FALSE	PT	1.201974e+02	1.06605269
1539	2	IgG	FALSE	OVA	2.433623e+02	0.06310861
1540	3	IgG	FALSE	PRN	1.776921e+04	2.80649509
1541	3	IgG	FALSE	DT	6.819207e+03	0.53949994
1542	3	IgG	FALSE	FHA	1.455930e+03	6.55881057
1543	3	IgG	FALSE	FIM2/3	5.162947e+03	9.73222892
1544	3	IgG	FALSE	TT	1.597656e+04	1.20314994
1545	3	IgG	FALSE	PT	1.241974e+02	1.10152941
1546	3	IgG	FALSE	OVA	2.016123e+02	0.05228202
1547	4	IgG	FALSE	PRN	2.101521e+04	3.31917312
1548	4	IgG	FALSE	DT	1.837746e+04	1.45392807
1549	4	IgG	FALSE	FHA	2.049430e+03	9.23246543
1550	4	IgG	FALSE	FIM2/3	1.005345e+04	18.95089056
1551	4	IgG	FALSE	TT	2.418581e+04	1.82136535
1552	4	IgG	FALSE	PT	9.396974e+02	8.33434538

1553	4	IgG	FALSE	OVA	1.678623e+02	0.04352998
1554	5	IgG	FALSE	PRN	2.020071e+04	3.19052979
1555	5	IgG	FALSE	DT	2.232421e+04	1.76617423
1556	5	IgG	FALSE	FHA	2.593680e+03	11.68425423
1557	5	IgG	FALSE	FIM2/3	1.957995e+04	36.90847774
1558	5	IgG	FALSE	TT	2.581306e+04	1.94390895
1559	5	IgG	FALSE	PT	1.565447e+03	13.88423451
1560	5	IgG	FALSE	OVA	1.223623e+02	0.03173094
1561	6	IgG	FALSE	PRN	2.211496e+04	3.49286925
1562	6	IgG	FALSE	DT	2.076996e+04	1.64321012
1563	6	IgG	FALSE	FHA	1.877930e+03	8.45987603
1564	6	IgG	FALSE	FIM2/3	1.423495e+04	26.83307717
1565	6	IgG	FALSE	TT	2.625306e+04	1.97704410
1566	6	IgG	FALSE	PT	1.086947e+03	9.64033207
1567	6	IgG	FALSE	OVA	1.033623e+02	0.02680387
1568	7	IgG	FALSE	PRN	2.141071e+04	3.38163897
1569	7	IgG	FALSE	DT	1.623221e+04	1.28420714
1570	7	IgG	FALSE	FHA	2.296799e+02	1.03468375
1571	7	IgG	FALSE	FIM2/3	7.488447e+03	14.11582930
1572	7	IgG	FALSE	TT	2.484581e+04	1.87106808
1573	7	IgG	FALSE	PT	5.359474e+02	4.75341411
1574	7	IgG	FALSE	OVA	7.311235e+01	0.01895946
1575	1	IgG	FALSE	PRN	8.402207e+03	1.32705703
1576	1	IgG	FALSE	DT	5.896207e+03	0.46647694
1577	1	IgG	FALSE	FHA	4.757116e+02	2.14303040
1578	1	IgG	FALSE	FIM2/3	2.086974e+02	0.39339763
1579	1	IgG	FALSE	TT	8.856815e+03	0.66698169
1580	1	IgG	FALSE	PT	1.244501e+02	1.10376995
1581	1	IgG	FALSE	OVA	5.349701e+03	1.38728194
1582	2	IgG	FALSE	PRN	8.624457e+03	1.36215953
1583	2	IgG	FALSE	DT	6.077707e+03	0.48083627
1584	2	IgG	FALSE	FHA	6.464616e+02	2.91224113
1585	2	IgG	FALSE	FIM2/3	1.676974e+02	0.31611205
1586	2	IgG	FALSE	TT	9.011315e+03	0.67861664
1587	2	IgG	FALSE	PT	1.259501e+02	1.11707372
1588	2	IgG	FALSE	OVA	5.596701e+03	1.45133386
1589	3	IgG	FALSE	PRN	8.448957e+03	1.33444080
1590	3	IgG	FALSE	DT	6.108957e+03	0.48330861
1591	3	IgG	FALSE	FHA	3.279616e+02	1.47743224
1592	3	IgG	FALSE	FIM2/3	1.501974e+02	0.28312430
1593	3	IgG	FALSE	TT	9.241815e+03	0.69597495
1594	3	IgG	FALSE	PT	1.219501e+02	1.08159701
1595	3	IgG	FALSE	OVA	5.501701e+03	1.42669850

1596	4	IgG	FALSE	PRN	2.188896e+04	3.45717420
1597	4	IgG	FALSE	DT	2.201296e+04	1.74154969
1598	4	IgG	FALSE	FHA	1.894962e+03	8.53660185
1599	4	IgG	FALSE	FIM2/3	6.777947e+03	12.77652675
1600	4	IgG	FALSE	TT	2.548806e+04	1.91943412
1601	4	IgG	FALSE	PT	7.194501e+02	6.38093182
1602	4	IgG	FALSE	OVA	5.574201e+03	1.44549917
1603	5	IgG	FALSE	PRN	2.209046e+04	3.48899941
1604	5	IgG	FALSE	DT	2.287596e+04	1.80982572
1605	5	IgG	FALSE	FHA	2.650212e+03	11.93892339
1606	5	IgG	FALSE	FIM2/3	1.942645e+04	36.61912807
1607	5	IgG	FALSE	TT	2.541206e+04	1.91371077
1608	5	IgG	FALSE	PT	1.150200e+03	10.20133093
1609	5	IgG	FALSE	OVA	5.299701e+03	1.37431596
1610	6	IgG	FALSE	PRN	2.234496e+04	3.52919552
1611	6	IgG	FALSE	DT	2.148271e+04	1.69959909
1612	6	IgG	FALSE	FHA	2.741712e+03	12.35112123
1613	6	IgG	FALSE	FIM2/3	1.507195e+04	28.41083401
1614	6	IgG	FALSE	TT	2.530631e+04	1.90574704
1615	6	IgG	FALSE	PT	7.827001e+02	6.94190743
1616	6	IgG	FALSE	OVA	4.677201e+03	1.21288956
1617	7	IgG	FALSE	PRN	2.229521e+04	3.52133793
1618	7	IgG	FALSE	DT	1.899696e+04	1.50293959
1619	7	IgG	FALSE	FHA	2.222212e+03	10.01082856
1620	7	IgG	FALSE	FIM2/3	1.055270e+04	19.89198387
1621	7	IgG	FALSE	TT	2.454881e+04	1.84870185
1622	7	IgG	FALSE	PT	3.952001e+02	3.50510033
1623	7	IgG	FALSE	OVA	4.102701e+03	1.06391050
1624	1	IgG	FALSE	PRN	1.359426e+04	2.14709807
1625	1	IgG	FALSE	DT	1.986644e+04	1.57172850
1626	1	IgG	FALSE	FHA	2.044075e+03	9.20834385
1627	1	IgG	FALSE	FIM2/3	1.067375e+03	2.01201766
1628	1	IgG	FALSE	TT	1.607764e+04	1.21076166
1629	1	IgG	FALSE	PT	4.345128e+01	0.38537718
1630	1	IgG	FALSE	OVA	1.086506e+04	2.81752331
1631	2	IgG	FALSE	PRN	1.736076e+04	2.74198464
1632	2	IgG	FALSE	DT	2.176644e+04	1.72204654
1633	2	IgG	FALSE	FHA	3.490325e+03	15.72354745
1634	2	IgG	FALSE	FIM2/3	1.799625e+03	3.39231926
1635	2	IgG	FALSE	TT	1.860514e+04	1.40110054
1636	2	IgG	FALSE	PT	6.470128e+01	0.57384725
1637	2	IgG	FALSE	OVA	1.306656e+04	3.38841522
1638	3	IgG	FALSE	PRN	1.671376e+04	2.63979650

1639	3	IgG	FALSE	DT	2.149244e+04	1.70036910
1640	3	IgG	FALSE	FHA	2.779075e+03	12.51944127
1641	3	IgG	FALSE	FIM2/3	1.642125e+03	3.09542954
1642	3	IgG	FALSE	TT	1.815864e+04	1.36747588
1643	3	IgG	FALSE	PT	5.670128e+01	0.50289381
1644	3	IgG	FALSE	OVA	1.240006e+04	3.21557877
1645	4	IgG	FALSE	PRN	1.360326e+04	2.14851955
1646	4	IgG	FALSE	DT	2.356244e+04	1.86413664
1647	4	IgG	FALSE	FHA	2.404075e+03	10.83010585
1648	4	IgG	FALSE	FIM2/3	2.139663e+04	40.33294132
1649	4	IgG	FALSE	TT	1.895739e+04	1.42762749
1650	4	IgG	FALSE	PT	5.070128e+01	0.44967874
1651	4	IgG	FALSE	OVA	1.012756e+04	2.62627517
1652	5	IgG	FALSE	PRN	2.146976e+04	3.39096615
1653	5	IgG	FALSE	DT	2.465994e+04	1.95096509
1654	5	IgG	FALSE	FHA	5.441825e+03	24.51484897
1655	5	IgG	FALSE	FIM2/3	2.667913e+04	50.29052850
1656	5	IgG	FALSE	TT	2.343989e+04	1.76519189
1657	5	IgG	FALSE	PT	2.012013e+02	1.78449027
1658	5	IgG	FALSE	OVA	1.075681e+04	2.78945197
1659	6	IgG	FALSE	PRN	1.863251e+04	2.94284670
1660	6	IgG	FALSE	DT	2.417794e+04	1.91283178
1661	6	IgG	FALSE	FHA	4.619825e+03	20.81182573
1662	6	IgG	FALSE	FIM2/3	2.381963e+04	44.90033057
1663	6	IgG	FALSE	TT	2.251839e+04	1.69579633
1664	6	IgG	FALSE	PT	1.214513e+02	1.07717319
1665	6	IgG	FALSE	OVA	9.127565e+03	2.36695566
1666	7	IgG	FALSE	PRN	1.702376e+04	2.68875836
1667	7	IgG	FALSE	DT	2.255444e+04	1.78438897
1668	7	IgG	FALSE	FHA	4.396825e+03	19.80723427
1669	7	IgG	FALSE	FIM2/3	1.624363e+04	30.61946347
1670	7	IgG	FALSE	TT	2.137689e+04	1.60983320
1671	7	IgG	FALSE	PT	1.567013e+02	1.38981177
1672	7	IgG	FALSE	OVA	9.814315e+03	2.54504333
1673	1	IgG	FALSE	PRN	5.262264e+03	0.83112971
1674	1	IgG	FALSE	DT	2.275644e+04	1.80037015
1675	1	IgG	FALSE	FHA	5.363825e+03	24.16346721
1676	1	IgG	FALSE	FIM2/3	4.192125e+03	7.90221559
1677	1	IgG	FALSE	TT	1.967814e+04	1.48190513
1678	1	IgG	FALSE	PT	7.327013e+02	6.49845922
1679	1	IgG	FALSE	OVA	5.697565e+03	1.47748972
1680	2	IgG	FALSE	PRN	8.159264e+03	1.28868616
1681	2	IgG	FALSE	DT	2.361144e+04	1.86801327

1682	2	IgG	FALSE	FHA	8.331825e+03	37.53399394
1683	2	IgG	FALSE	FIM2/3	6.177125e+03	11.64396865
1684	2	IgG	FALSE	TT	2.173564e+04	1.63684964
1685	2	IgG	FALSE	PT	9.594513e+02	8.50954570
1686	2	IgG	FALSE	OVA	8.161065e+03	2.11632335
1687	3	IgG	FALSE	PRN	6.846264e+03	1.08130901
1688	3	IgG	FALSE	DT	2.284894e+04	1.80768827
1689	3	IgG	FALSE	FHA	7.206075e+03	32.46260901
1690	3	IgG	FALSE	FIM2/3	5.136625e+03	9.68261144
1691	3	IgG	FALSE	TT	2.066764e+04	1.55642158
1692	3	IgG	FALSE	PT	7.402013e+02	6.56497807
1693	3	IgG	FALSE	OVA	6.788565e+03	1.76040731
1694	4	IgG	FALSE	PRN	2.413776e+04	3.81235400
1695	4	IgG	FALSE	DT	2.382244e+04	1.88470648
1696	4	IgG	FALSE	FHA	8.803325e+03	39.65805168
1697	4	IgG	FALSE	FIM2/3	2.357713e+04	44.44321465
1698	4	IgG	FALSE	TT	2.633689e+04	1.98335678
1699	4	IgG	FALSE	PT	7.232013e+02	6.41420202
1700	4	IgG	FALSE	OVA	5.262065e+03	1.36455607
1701	5	IgG	FALSE	PRN	2.394576e+04	3.78202924
1702	5	IgG	FALSE	DT	2.417094e+04	1.91227797
1703	5	IgG	FALSE	FHA	1.144233e+04	51.54646814
1704	5	IgG	FALSE	FIM2/3	2.594963e+04	48.91541069
1705	5	IgG	FALSE	TT	2.679164e+04	2.01760271
1706	5	IgG	FALSE	PT	9.169513e+02	8.13260556
1707	5	IgG	FALSE	OVA	6.158815e+03	1.59710085
1708	6	IgG	FALSE	PRN	2.447801e+04	3.86609359
1709	6	IgG	FALSE	DT	2.326244e+04	1.84040222
1710	6	IgG	FALSE	FHA	9.950825e+03	44.82741806
1711	6	IgG	FALSE	FIM2/3	2.243088e+04	42.28251719
1712	6	IgG	FALSE	TT	2.558439e+04	1.92668813
1713	6	IgG	FALSE	PT	6.372013e+02	5.65145257
1714	6	IgG	FALSE	OVA	5.389565e+03	1.39761931
1715	7	IgG	FALSE	PRN	2.383876e+04	3.76512950
1716	7	IgG	FALSE	DT	2.154994e+04	1.70491820
1717	7	IgG	FALSE	FHA	8.039325e+03	36.21631232
1718	7	IgG	FALSE	FIM2/3	1.876938e+04	35.38053793
1719	7	IgG	FALSE	TT	2.264114e+04	1.70504029
1720	7	IgG	FALSE	PT	6.312013e+02	5.59823749
1721	7	IgG	FALSE	OVA	6.076065e+03	1.57564216
1722	1	IgG	FALSE	PRN	2.125520e+04	3.35707817
1723	1	IgG	FALSE	DT	1.448212e+04	1.14574916
1724	1	IgG	FALSE	FHA	4.891337e+01	0.22034957

1725	1	IgG	FALSE	FIM2/3	7.900000e+01	0.14891612
1726	1	IgG	FALSE	TT	1.327895e+04	1.00000000
1727	1	IgG	FALSE	PT	3.667500e+02	3.25277162
1728	1	IgG	FALSE	OVA	1.374225e+04	3.56363359
1729	2	IgG	FALSE	PRN	2.165695e+04	3.42053116
1730	2	IgG	FALSE	DT	1.251687e+04	0.99026888
1731	2	IgG	FALSE	FHA	5.566337e+01	0.25075761
1732	2	IgG	FALSE	FIM2/3	2.130000e+02	0.40150801
1733	2	IgG	FALSE	TT	1.132745e+04	0.85303805
1734	2	IgG	FALSE	PT	2.855000e+02	2.53215078
1735	2	IgG	FALSE	OVA	1.292500e+04	3.35170472
1736	3	IgG	FALSE	PRN	2.135945e+04	3.37354357
1737	3	IgG	FALSE	DT	1.362687e+04	1.07808626
1738	3	IgG	FALSE	FHA	1.751634e+02	0.78909249
1739	3	IgG	FALSE	FIM2/3	3.440000e+02	0.64844486
1740	3	IgG	FALSE	TT	1.215370e+04	0.91526060
1741	3	IgG	FALSE	PT	3.595000e+02	3.18847007
1742	3	IgG	FALSE	OVA	1.393525e+04	3.61368226
1743	4	IgG	FALSE	PRN	2.226095e+04	3.51592781
1744	4	IgG	FALSE	DT	1.969062e+04	1.55781837
1745	4	IgG	FALSE	FHA	8.016337e+01	0.36112752
1746	4	IgG	FALSE	FIM2/3	6.592500e+02	1.24269557
1747	4	IgG	FALSE	TT	2.444320e+04	1.84074811
1748	4	IgG	FALSE	PT	9.637500e+02	8.54767184
1749	4	IgG	FALSE	OVA	1.376250e+04	3.56888481
1750	5	IgG	FALSE	PRN	2.209720e+04	3.49006489
1751	5	IgG	FALSE	DT	2.184037e+04	1.72789531
1752	5	IgG	FALSE	FHA	2.431634e+02	1.09542532
1753	5	IgG	FALSE	FIM2/3	3.322250e+03	6.26248822
1754	5	IgG	FALSE	TT	2.474095e+04	1.86317082
1755	5	IgG	FALSE	PT	1.736250e+03	15.39911308
1756	5	IgG	FALSE	OVA	1.457325e+04	3.77912811
1757	6	IgG	FALSE	PRN	2.631195e+04	4.15574872
1758	6	IgG	FALSE	DT	2.068162e+04	1.63622109
1759	6	IgG	FALSE	FHA	5.869134e+02	2.64398278
1760	6	IgG	FALSE	FIM2/3	1.725175e+04	32.51979265
1761	6	IgG	FALSE	TT	2.670745e+04	2.01126238
1762	6	IgG	FALSE	PT	1.120750e+03	9.94013304
1763	6	IgG	FALSE	OVA	1.366875e+04	3.54457361
1764	7	IgG	FALSE	PRN	2.273020e+04	3.59004185
1765	7	IgG	FALSE	DT	1.579862e+04	1.24990374
1766	7	IgG	FALSE	FHA	9.466337e+01	0.42644849
1767	7	IgG	FALSE	FIM2/3	9.717500e+02	1.83176249

1768	7	IgG	FALSE	TT	2.058345e+04	1.55008125
1769	7	IgG	FALSE	PT	6.100000e+02	5.41019956
1770	7	IgG	FALSE	OVA	1.390575e+04	3.60603233
1771	1	IgG	FALSE	PRN	1.074371e+04	1.69687727
1772	1	IgG	FALSE	DT	1.471671e+04	1.16430872
1773	1	IgG	FALSE	FHA	1.656799e+02	0.74637050
1774	1	IgG	FALSE	FIM2/3	6.401974e+02	1.20678123
1775	1	IgG	FALSE	TT	1.458006e+04	1.09798347
1776	1	IgG	FALSE	PT	3.031974e+02	2.68911256
1777	1	IgG	FALSE	OVA	3.101612e+03	0.80430861
1778	2	IgG	FALSE	PRN	1.094771e+04	1.72909733
1779	2	IgG	FALSE	DT	1.482571e+04	1.17293223
1780	2	IgG	FALSE	FHA	1.238430e+03	5.57899603
1781	2	IgG	FALSE	FIM2/3	6.561447e+03	12.36842119
1782	2	IgG	FALSE	TT	1.473906e+04	1.10995731
1783	2	IgG	FALSE	PT	3.251974e+02	2.88423451
1784	2	IgG	FALSE	OVA	3.287112e+03	0.85241238
1785	3	IgG	FALSE	PRN	1.108371e+04	1.75057737
1786	3	IgG	FALSE	DT	1.543371e+04	1.22103400
1787	3	IgG	FALSE	FHA	1.511430e+03	6.80883221
1788	3	IgG	FALSE	FIM2/3	3.940697e+03	7.42827039
1789	3	IgG	FALSE	TT	1.540281e+04	1.15994244
1790	3	IgG	FALSE	PT	3.449474e+02	3.05940081
1791	3	IgG	FALSE	OVA	3.174362e+03	0.82317410
1792	4	IgG	FALSE	PRN	1.798596e+04	2.84072891
1793	4	IgG	FALSE	DT	2.144221e+04	1.69639502
1794	4	IgG	FALSE	FHA	1.171180e+03	5.27604187
1795	4	IgG	FALSE	FIM2/3	6.758447e+03	12.73976897
1796	4	IgG	FALSE	TT	2.330206e+04	1.75481264
1797	4	IgG	FALSE	PT	9.819474e+02	8.70906821
1798	4	IgG	FALSE	OVA	3.614112e+03	0.93720986
1799	5	IgG	FALSE	PRN	2.051321e+04	3.23988650
1800	5	IgG	FALSE	DT	2.218371e+04	1.75505861
1801	5	IgG	FALSE	FHA	1.560180e+03	7.02844582
1802	5	IgG	FALSE	FIM2/3	5.418697e+03	10.21432128
1803	5	IgG	FALSE	TT	2.463606e+04	1.85527240
1804	5	IgG	FALSE	PT	1.349697e+03	11.97070901
1805	5	IgG	FALSE	OVA	3.650862e+03	0.94673985
1806	6	IgG	FALSE	PRN	1.702871e+04	2.68953943
1807	6	IgG	FALSE	DT	2.092971e+04	1.65584870
1808	6	IgG	FALSE	FHA	2.452930e+03	11.05019034
1809	6	IgG	FALSE	FIM2/3	1.162395e+04	21.91130526
1810	6	IgG	FALSE	TT	2.293906e+04	1.72747613

1811	6	IgG	FALSE	PT	8.579474e+02	7.60928994
1812	6	IgG	FALSE	OVA	3.345362e+03	0.86751774
1813	7	IgG	FALSE	PRN	1.491821e+04	2.35620395
1814	7	IgG	FALSE	DT	1.947971e+04	1.54113231
1815	7	IgG	FALSE	FHA	1.264430e+03	5.69612328
1816	7	IgG	FALSE	FIM2/3	6.991947e+03	13.17991978
1817	7	IgG	FALSE	TT	2.082356e+04	1.56816381
1818	7	IgG	FALSE	PT	6.409474e+02	5.68467797
1819	7	IgG	FALSE	OVA	4.056362e+03	1.05189391
1820	1	IgG	FALSE	PRN	1.298196e+04	2.05038977
1821	1	IgG	FALSE	DT	1.094321e+04	0.86576919
1822	1	IgG	FALSE	FHA	1.201799e+02	0.54139780
1823	1	IgG	FALSE	FIM2/3	4.824474e+02	0.90942025
1824	1	IgG	FALSE	TT	2.050456e+04	1.54414082
1825	1	IgG	FALSE	PT	4.894744e+01	0.43412365
1826	1	IgG	FALSE	OVA	4.447862e+03	1.15341750
1827	2	IgG	FALSE	PRN	1.287846e+04	2.03404283
1828	2	IgG	FALSE	DT	1.066071e+04	0.84341927
1829	2	IgG	FALSE	FHA	2.756799e+02	1.24190889
1830	2	IgG	FALSE	FIM2/3	1.088697e+03	2.05221007
1831	2	IgG	FALSE	TT	2.005056e+04	1.50995136
1832	2	IgG	FALSE	PT	5.394744e+01	0.47846954
1833	2	IgG	FALSE	OVA	4.368362e+03	1.13280160
1834	3	IgG	FALSE	PRN	1.325521e+04	2.09354728
1835	3	IgG	FALSE	DT	1.157871e+04	0.91604662
1836	3	IgG	FALSE	FHA	4.821799e+02	2.17216960
1837	3	IgG	FALSE	FIM2/3	1.005947e+03	1.89622515
1838	3	IgG	FALSE	TT	2.084331e+04	1.56965112
1839	3	IgG	FALSE	PT	5.894744e+01	0.52281544
1840	3	IgG	FALSE	OVA	4.910362e+03	1.27335278
1841	4	IgG	FALSE	PRN	2.143571e+04	3.38558751
1842	4	IgG	FALSE	DT	2.242271e+04	1.77396703
1843	4	IgG	FALSE	FHA	1.691430e+03	7.61971321
1844	4	IgG	FALSE	FIM2/3	1.017895e+04	19.18745983
1845	4	IgG	FALSE	TT	2.536756e+04	1.91035960
1846	4	IgG	FALSE	PT	2.509474e+02	2.22569793
1847	4	IgG	FALSE	OVA	5.030612e+03	1.30453595
1848	5	IgG	FALSE	PRN	2.272521e+04	3.58925304
1849	5	IgG	FALSE	DT	2.276771e+04	1.80126163
1850	5	IgG	FALSE	FHA	1.772930e+03	7.98686211
1851	5	IgG	FALSE	FIM2/3	1.109045e+04	20.90565022
1852	5	IgG	FALSE	TT	2.607831e+04	1.96388418
1853	5	IgG	FALSE	PT	3.856974e+02	3.42081988

1854	5	IgG	FALSE	OVA	5.269362e+03	1.36644848
1855	6	IgG	FALSE	PRN	2.272121e+04	3.58862127
1856	6	IgG	FALSE	DT	2.280796e+04	1.80444599
1857	6	IgG	FALSE	FHA	1.721930e+03	7.75711249
1858	6	IgG	FALSE	FIM2/3	1.532695e+04	28.89151261
1859	6	IgG	FALSE	TT	2.538381e+04	1.91158334
1860	6	IgG	FALSE	PT	2.279474e+02	2.02170679
1861	6	IgG	FALSE	OVA	4.339362e+03	1.12528133
1862	7	IgG	FALSE	PRN	2.020671e+04	3.19147743
1863	7	IgG	FALSE	DT	2.211146e+04	1.74934257
1864	7	IgG	FALSE	FHA	1.376180e+03	6.19954524
1865	7	IgG	FALSE	FIM2/3	1.116795e+04	21.05173881
1866	7	IgG	FALSE	TT	2.436406e+04	1.83478885
1867	7	IgG	FALSE	PT	1.414474e+02	1.25452276
1868	7	IgG	FALSE	OVA	4.186362e+03	1.08560545
1869	1	IgG	FALSE	PRN	1.587114e+04	2.50671085
1870	1	IgG	FALSE	DT	1.345370e+04	1.06438657
1871	1	IgG	FALSE	FHA	1.622152e+03	7.30762467
1872	1	IgG	FALSE	FIM2/3	8.632511e+02	1.62724054
1873	1	IgG	FALSE	TT	1.108809e+04	0.83501274
1874	1	IgG	FALSE	PT	1.475000e+01	0.13082040
1875	1	IgG	FALSE	OVA	7.246497e+03	1.87915798
1876	2	IgG	FALSE	PRN	1.457714e+04	2.30233458
1877	2	IgG	FALSE	DT	1.276070e+04	1.00956004
1878	2	IgG	FALSE	FHA	1.197652e+03	5.39529698
1879	2	IgG	FALSE	FIM2/3	7.952511e+02	1.49905958
1880	2	IgG	FALSE	TT	1.055234e+04	0.79466692
1881	2	IgG	FALSE	PT	9.750000e+00	0.08647450
1882	2	IgG	FALSE	OVA	6.578747e+03	1.70599738
1883	3	IgG	FALSE	PRN	1.502314e+04	2.37277648
1884	3	IgG	FALSE	DT	1.336145e+04	1.05708823
1885	3	IgG	FALSE	FHA	9.091522e+02	4.09563493
1886	3	IgG	FALSE	FIM2/3	8.372511e+02	1.57823017
1887	3	IgG	FALSE	TT	1.108034e+04	0.83442911
1888	3	IgG	FALSE	PT	1.175000e+01	0.10421286
1889	3	IgG	FALSE	OVA	6.742497e+03	1.74846095
1890	4	IgG	FALSE	PRN	2.468314e+04	3.89849111
1891	4	IgG	FALSE	DT	2.492670e+04	1.97207017
1892	4	IgG	FALSE	FHA	2.219652e+03	9.99929911
1893	4	IgG	FALSE	FIM2/3	2.597125e+04	48.95617551
1894	4	IgG	FALSE	TT	2.479509e+04	1.86724816
1895	4	IgG	FALSE	PT	5.225000e+01	0.46341463
1896	4	IgG	FALSE	OVA	7.311497e+03	1.89601375

1897	5	IgG	FALSE	PRN	2.476589e+04	3.91156077
1898	5	IgG	FALSE	DT	2.585045e+04	2.04515242
1899	5	IgG	FALSE	FHA	6.417402e+03	28.90971980
1900	5	IgG	FALSE	FIM2/3	2.757025e+04	51.97031311
1901	5	IgG	FALSE	TT	2.730884e+04	2.05655157
1902	5	IgG	FALSE	PT	1.362500e+02	1.20842572
1903	5	IgG	FALSE	OVA	6.665497e+03	1.72849334
1904	6	IgG	FALSE	PRN	2.474814e+04	3.90875731
1905	6	IgG	FALSE	DT	2.580595e+04	2.04163182
1906	6	IgG	FALSE	FHA	5.285152e+03	23.80905305
1907	6	IgG	FALSE	FIM2/3	2.395150e+04	45.14891820
1908	6	IgG	FALSE	TT	2.648159e+04	1.99425371
1909	6	IgG	FALSE	PT	1.205000e+02	1.06873614
1910	6	IgG	FALSE	OVA	5.922997e+03	1.53594861
1911	7	IgG	FALSE	PRN	2.431364e+04	3.84013174
1912	7	IgG	FALSE	DT	2.511495e+04	1.98696352
1913	7	IgG	FALSE	FHA	3.393402e+03	15.28691897
1914	7	IgG	FALSE	FIM2/3	1.360975e+04	25.65457324
1915	7	IgG	FALSE	TT	2.463984e+04	1.85555673
1916	7	IgG	FALSE	PT	6.575000e+01	0.58314856
1917	7	IgG	FALSE	OVA	5.063497e+03	1.31306348
1918	1	IgG	FALSE	PRN	2.356375e+02	0.07932830
1919	1	IgG	FALSE	DT	3.537047e+02	0.19369270
1920	1	IgG	FALSE	FHA	4.936402e+03	22.23797111
1921	1	IgG	FALSE	FIM2/3	1.615251e+03	3.04477117
1922	1	IgG	FALSE	TT	7.102840e+03	0.53489482
1923	1	IgG	FALSE	PT	1.195500e+03	10.60310421
1924	1	IgG	FALSE	OVA	1.358497e+03	0.35228468
1925	2	IgG	FALSE	PRN	2.423875e+02	0.07932830
1926	2	IgG	FALSE	DT	3.484547e+02	0.19369270
1927	2	IgG	FALSE	FHA	3.955902e+03	17.82092210
1928	2	IgG	FALSE	FIM2/3	1.428501e+03	2.69274478
1929	2	IgG	FALSE	TT	6.611840e+03	0.49791900
1930	2	IgG	FALSE	PT	1.105750e+03	9.80709534
1931	2	IgG	FALSE	OVA	1.295247e+03	0.33588272
1932	3	IgG	FALSE	PRN	2.751375e+02	0.07932830
1933	3	IgG	FALSE	DT	4.097047e+02	0.19369270
1934	3	IgG	FALSE	FHA	3.097402e+03	13.95347021
1935	3	IgG	FALSE	FIM2/3	1.554251e+03	2.92978531
1936	3	IgG	FALSE	TT	6.933090e+03	0.52211143
1937	3	IgG	FALSE	PT	1.124250e+03	9.97117517
1938	3	IgG	FALSE	OVA	1.314497e+03	0.34087463
1939	4	IgG	FALSE	PRN	1.262714e+04	1.99434871

1940	4	IgG	FALSE	DT	1.252020e+04	0.99053294
1941	4	IgG	FALSE	FHA	4.113152e+03	18.52931676
1942	4	IgG	FALSE	FIM2/3	1.947025e+04	36.70169860
1943	4	IgG	FALSE	TT	2.697509e+04	2.03141780
1944	4	IgG	FALSE	PT	1.129750e+03	10.01995565
1945	4	IgG	FALSE	OVA	1.277997e+03	0.33140946
1946	5	IgG	FALSE	PRN	1.724864e+04	2.72427523
1947	5	IgG	FALSE	DT	1.145920e+04	0.90659219
1948	5	IgG	FALSE	FHA	4.675402e+03	21.06219366
1949	5	IgG	FALSE	FIM2/3	1.994625e+04	37.59896533
1950	5	IgG	FALSE	TT	2.662759e+04	2.00524856
1951	5	IgG	FALSE	PT	1.247000e+03	11.05986696
1952	5	IgG	FALSE	OVA	1.364997e+03	0.35397026
1953	6	IgG	FALSE	PRN	1.358439e+04	2.14553818
1954	6	IgG	FALSE	DT	7.694205e+03	0.60872513
1955	6	IgG	FALSE	FHA	6.016652e+03	27.10438335
1956	6	IgG	FALSE	FIM2/3	1.715625e+04	32.33977588
1957	6	IgG	FALSE	TT	2.651559e+04	1.99681416
1958	6	IgG	FALSE	PT	1.028750e+03	9.12416851
1959	6	IgG	FALSE	OVA	1.397247e+03	0.36233331
1960	7	IgG	FALSE	PRN	8.096138e+03	1.27871589
1961	7	IgG	FALSE	DT	1.851205e+03	0.19369270
1962	7	IgG	FALSE	FHA	5.049902e+03	22.74927663
1963	7	IgG	FALSE	FIM2/3	1.010050e+04	19.03958738
1964	7	IgG	FALSE	TT	2.434509e+04	1.83335994
1965	7	IgG	FALSE	PT	5.827500e+02	5.16851441
1966	7	IgG	FALSE	OVA	1.630997e+03	0.42294925
1967	1	IgG	FALSE	PRN	6.940071e+03	1.09612506
1968	1	IgG	FALSE	DT	8.725250e+03	0.69029603
1969	1	IgG	FALSE	FHA	1.057109e+01	0.04762165
1970	1	IgG	FALSE	FIM2/3	2.518760e+02	0.47478975
1971	1	IgG	FALSE	TT	6.660897e+03	0.50161332
1972	1	IgG	FALSE	PT	6.925000e+01	0.61419069
1973	1	IgG	FALSE	OVA	1.312343e+03	0.34031610
1974	2	IgG	FALSE	PRN	7.061071e+03	1.11523597
1975	2	IgG	FALSE	DT	9.029000e+03	0.71432713
1976	2	IgG	FALSE	FHA	2.982109e+01	0.13434087
1977	2	IgG	FALSE	FIM2/3	3.733876e+03	7.03840898
1978	2	IgG	FALSE	TT	7.349397e+03	0.55346231
1979	2	IgG	FALSE	PT	9.125000e+01	0.80931264
1980	2	IgG	FALSE	OVA	1.637093e+03	0.42453011
1981	3	IgG	FALSE	PRN	6.386821e+03	1.00874394
1982	3	IgG	FALSE	DT	8.376500e+03	0.66270475

1983	3	IgG	FALSE	FHA	1.307109e+01	0.05888389
1984	3	IgG	FALSE	FIM2/3	2.278760e+02	0.42954941
1985	3	IgG	FALSE	TT	6.639647e+03	0.50001304
1986	3	IgG	FALSE	PT	6.225000e+01	0.55210643
1987	3	IgG	FALSE	OVA	1.124343e+03	0.29156403
1988	4	IgG	FALSE	PRN	8.503321e+03	1.34302707
1989	4	IgG	FALSE	DT	1.165575e+04	0.92214182
1990	4	IgG	FALSE	FHA	1.657109e+01	0.07465102
1991	4	IgG	FALSE	FIM2/3	3.078760e+02	0.58035054
1992	4	IgG	FALSE	TT	8.255147e+03	0.62167178
1993	4	IgG	FALSE	PT	2.240000e+02	1.98669623
1994	4	IgG	FALSE	OVA	6.673428e+02	0.17305501
1995	5	IgG	FALSE	PRN	1.157107e+04	1.82755202
1996	5	IgG	FALSE	DT	1.104075e+04	0.87348624
1997	5	IgG	FALSE	FHA	1.307109e+01	0.05888389
1998	5	IgG	FALSE	FIM2/3	2.837596e+01	0.05348909
1999	5	IgG	FALSE	TT	1.201715e+04	0.90497737
2000	5	IgG	FALSE	PT	5.065000e+02	4.49223947
2001	5	IgG	FALSE	OVA	5.083428e+02	0.13182321
2002	6	IgG	FALSE	PRN	2.373321e+03	0.37484583
2003	6	IgG	FALSE	DT	7.329250e+03	0.57985183
2004	6	IgG	FALSE	FHA	1.457109e+01	0.06564123
2005	6	IgG	FALSE	FIM2/3	1.387596e+01	0.02615638
2006	6	IgG	FALSE	TT	2.557147e+03	0.19257151
2007	6	IgG	FALSE	PT	3.072500e+02	2.72505543
2008	6	IgG	FALSE	OVA	1.288428e+02	0.03341145
2009	7	IgG	FALSE	PRN	7.548071e+03	1.19215347
2010	7	IgG	FALSE	DT	9.237250e+03	0.73080278
2011	7	IgG	FALSE	FHA	8.571092e+00	0.03861186
2012	7	IgG	FALSE	FIM2/3	3.787596e+01	0.07139672
2013	7	IgG	FALSE	TT	6.949647e+03	0.52335827
2014	7	IgG	FALSE	PT	2.487500e+02	2.20620843
2015	7	IgG	FALSE	OVA	6.705928e+02	0.17389780
2016	1	IgG	FALSE	PRN	1.217571e+03	0.19230497
2017	1	IgG	FALSE	DT	1.174075e+04	0.92886657
2018	1	IgG	FALSE	FHA	1.607109e+01	0.07239857
2019	1	IgG	FALSE	FIM2/3	4.037596e+01	0.07610926
2020	1	IgG	FALSE	TT	1.638965e+04	1.23425798
2021	1	IgG	FALSE	PT	1.120000e+02	0.99334812
2022	1	IgG	FALSE	OVA	5.218428e+02	0.13532402
2023	2	IgG	FALSE	PRN	1.431571e+03	0.22610445
2024	2	IgG	FALSE	DT	1.227700e+04	0.97129186
2025	2	IgG	FALSE	FHA	1.832109e+01	0.08253458

2026	2	IgG	FALSE	FIM2/3	4.537596e+01	0.08553433
2027	2	IgG	FALSE	TT	1.690265e+04	1.27289056
2028	2	IgG	FALSE	PT	1.220000e+02	1.08203991
2029	2	IgG	FALSE	OVA	5.713428e+02	0.14816034
2030	3	IgG	FALSE	PRN	1.430821e+03	0.22598599
2031	3	IgG	FALSE	DT	1.230875e+04	0.97380375
2032	3	IgG	FALSE	FHA	1.507109e+01	0.06789368
2033	3	IgG	FALSE	FIM2/3	3.537596e+01	0.06668419
2034	3	IgG	FALSE	TT	1.631940e+04	1.22896766
2035	3	IgG	FALSE	PT	1.062500e+02	0.94235033
2036	3	IgG	FALSE	OVA	5.035928e+02	0.13059144
2037	4	IgG	FALSE	PRN	1.060282e+04	1.67462519
2038	4	IgG	FALSE	DT	2.241100e+04	1.77304080
2039	4	IgG	FALSE	FHA	3.457109e+01	0.15573912
2040	4	IgG	FALSE	FIM2/3	4.286260e+02	0.80796600
2041	4	IgG	FALSE	TT	2.529715e+04	1.90505663
2042	4	IgG	FALSE	PT	4.950000e+02	4.39024390
2043	4	IgG	FALSE	OVA	5.698428e+02	0.14777136
2044	5	IgG	FALSE	PRN	2.076032e+04	3.27891571
2045	5	IgG	FALSE	DT	2.283075e+04	1.80624922
2046	5	IgG	FALSE	FHA	3.507109e+01	0.15799157
2047	5	IgG	FALSE	FIM2/3	2.277876e+03	4.29382839
2048	5	IgG	FALSE	TT	2.444265e+04	1.84070665
2049	5	IgG	FALSE	PT	8.315000e+02	7.37472284
2050	5	IgG	FALSE	OVA	5.163428e+02	0.13389777
2051	6	IgG	FALSE	PRN	2.060607e+04	3.25455324
2052	6	IgG	FALSE	DT	2.254050e+04	1.78328616
2053	6	IgG	FALSE	FHA	3.582109e+01	0.16137024
2054	6	IgG	FALSE	FIM2/3	9.578760e+02	1.80560973
2055	6	IgG	FALSE	TT	2.551390e+04	1.92137946
2056	6	IgG	FALSE	PT	5.505000e+02	4.88248337
2057	6	IgG	FALSE	OVA	5.405928e+02	0.14018626
2058	7	IgG	FALSE	PRN	2.051532e+04	3.24022005
2059	7	IgG	FALSE	DT	2.001500e+04	1.58348184
2060	7	IgG	FALSE	FHA	4.107109e+01	0.18502093
2061	7	IgG	FALSE	FIM2/3	2.993760e+02	0.56432792
2062	7	IgG	FALSE	TT	2.482940e+04	1.86983170
2063	7	IgG	FALSE	PT	3.710000e+02	3.29046563
2064	7	IgG	FALSE	OVA	6.868428e+02	0.17811174
2065	1	IgG	FALSE	PRN	6.802035e+02	0.10743235
2066	1	IgG	FALSE	DT	3.169867e+03	0.25078326
2067	1	IgG	FALSE	FHA	3.416337e+01	0.15390237
2068	1	IgG	FALSE	FIM2/3	1.367500e+02	0.25777568

2069	1	IgG	FALSE	TT	1.731220e+04	1.30373266
2070	1	IgG	FALSE	PT	4.512500e+02	4.00221729
2071	1	IgG	FALSE	OVA	7.045000e+02	0.18269060
2072	2	IgG	FALSE	PRN	7.267035e+02	0.11477663
2073	2	IgG	FALSE	DT	2.804617e+03	0.22188659
2074	2	IgG	FALSE	FHA	2.066337e+01	0.09308630
2075	2	IgG	FALSE	FIM2/3	1.097500e+02	0.20688030
2076	2	IgG	FALSE	TT	1.575895e+04	1.18676179
2077	2	IgG	FALSE	PT	3.907500e+02	3.46563193
2078	2	IgG	FALSE	OVA	6.012500e+02	0.15591586
2079	3	IgG	FALSE	PRN	6.517035e+02	0.10293102
2080	3	IgG	FALSE	DT	3.099117e+03	0.24518589
2081	3	IgG	FALSE	FHA	3.516337e+01	0.15840727
2082	3	IgG	FALSE	FIM2/3	1.320000e+02	0.24882187
2083	3	IgG	FALSE	TT	1.705295e+04	1.28420927
2084	3	IgG	FALSE	PT	4.462500e+02	3.95787140
2085	3	IgG	FALSE	OVA	7.765000e+02	0.20136160
2086	4	IgG	FALSE	PRN	1.816954e+03	0.28697232
2087	4	IgG	FALSE	DT	8.068117e+03	0.63830711
2088	4	IgG	FALSE	FHA	5.316337e+01	0.23949537
2089	4	IgG	FALSE	FIM2/3	2.887500e+02	0.54429783
2090	4	IgG	FALSE	TT	2.126795e+04	1.60162901
2091	4	IgG	FALSE	PT	4.897500e+02	4.34368071
2092	4	IgG	FALSE	OVA	6.765000e+02	0.17542965
2093	5	IgG	FALSE	PRN	9.101704e+03	1.43753647
2094	5	IgG	FALSE	DT	1.667987e+04	1.31962361
2095	5	IgG	FALSE	FHA	6.016337e+01	0.27102963
2096	5	IgG	FALSE	FIM2/3	7.212500e+02	1.35956645
2097	5	IgG	FALSE	TT	2.412745e+04	1.81696987
2098	5	IgG	FALSE	PT	1.019250e+03	9.03991131
2099	5	IgG	FALSE	OVA	6.597500e+02	0.17108605
2100	6	IgG	FALSE	PRN	1.044020e+04	1.64894113
2101	6	IgG	FALSE	DT	1.669787e+04	1.32104768
2102	6	IgG	FALSE	FHA	5.666337e+01	0.25526250
2103	6	IgG	FALSE	FIM2/3	7.525000e+02	1.41847314
2104	6	IgG	FALSE	TT	2.397795e+04	1.80571145
2105	6	IgG	FALSE	PT	1.023250e+03	9.07538803
2106	6	IgG	FALSE	OVA	7.045000e+02	0.18269060
2107	7	IgG	FALSE	PRN	8.318454e+03	1.31382881
2108	7	IgG	FALSE	DT	1.439912e+04	1.13918263
2109	7	IgG	FALSE	FHA	1.366634e+02	0.61565406
2110	7	IgG	FALSE	FIM2/3	4.394500e+03	8.28369463
2111	7	IgG	FALSE	TT	2.218245e+04	1.67049742

2112	7	IgG	FALSE	PT	8.742500e+02	7.75388027
2113	7	IgG	FALSE	OVA	7.092500e+02	0.18392237
2114	1	IgG	FALSE	PRN	1.261707e+04	1.99275880
2115	1	IgG	FALSE	DT	1.706900e+04	1.35040977
2116	1	IgG	FALSE	FHA	2.282109e+01	0.10280661
2117	1	IgG	FALSE	FIM2/3	3.231260e+02	0.60909701
2118	1	IgG	FALSE	TT	1.878865e+04	1.41491989
2119	1	IgG	FALSE	PT	4.325000e+01	0.38359202
2120	1	IgG	FALSE	OVA	3.478428e+02	0.09020243
2121	2	IgG	FALSE	PRN	1.172432e+04	1.85175655
2122	2	IgG	FALSE	DT	1.711850e+04	1.35432595
2123	2	IgG	FALSE	FHA	4.207109e+01	0.18952583
2124	2	IgG	FALSE	FIM2/3	2.030376e+03	3.82728739
2125	2	IgG	FALSE	TT	1.843140e+04	1.38801641
2126	2	IgG	FALSE	PT	4.675000e+01	0.41463415
2127	2	IgG	FALSE	OVA	3.665928e+02	0.09506467
2128	3	IgG	FALSE	PRN	1.170082e+04	1.84804493
2129	3	IgG	FALSE	DT	1.742925e+04	1.37891086
2130	3	IgG	FALSE	FHA	2.232109e+01	0.10055416
2131	3	IgG	FALSE	FIM2/3	3.348760e+02	0.63124592
2132	3	IgG	FALSE	TT	1.826990e+04	1.37585430
2133	3	IgG	FALSE	PT	4.125000e+01	0.36585366
2134	3	IgG	FALSE	OVA	3.520928e+02	0.09130454
2135	4	IgG	FALSE	PRN	1.951682e+04	3.08251549
2136	4	IgG	FALSE	DT	2.071375e+04	1.63876328
2137	4	IgG	FALSE	FHA	3.082109e+01	0.13884576
2138	4	IgG	FALSE	FIM2/3	7.083760e+02	1.33529870
2139	4	IgG	FALSE	TT	2.198715e+04	1.65578989
2140	4	IgG	FALSE	PT	1.335000e+02	1.18403548
2141	4	IgG	FALSE	OVA	2.735928e+02	0.07094795
2142	5	IgG	FALSE	PRN	1.993657e+04	3.14881142
2143	5	IgG	FALSE	DT	2.121275e+04	1.67824154
2144	5	IgG	FALSE	FHA	5.082109e+01	0.22894365
2145	5	IgG	FALSE	FIM2/3	9.918760e+02	1.86970021
2146	5	IgG	FALSE	TT	2.353440e+04	1.77230891
2147	5	IgG	FALSE	PT	2.485000e+02	2.20399113
2148	5	IgG	FALSE	OVA	2.745928e+02	0.07120727
2149	6	IgG	FALSE	PRN	2.116907e+04	3.34347429
2150	6	IgG	FALSE	DT	2.280025e+04	1.80383622
2151	6	IgG	FALSE	FHA	5.532109e+01	0.24921568
2152	6	IgG	FALSE	FIM2/3	2.246876e+03	4.23539295
2153	6	IgG	FALSE	TT	2.443415e+04	1.84006654
2154	6	IgG	FALSE	PT	2.915000e+02	2.58536585

2155	6	IgG	FALSE	OVA	3.523428e+02	0.09136937
2156	7	IgG	FALSE	PRN	2.021932e+04	3.19346937
2157	7	IgG	FALSE	DT	2.058725e+04	1.62875526
2158	7	IgG	FALSE	FHA	3.957109e+01	0.17826359
2159	7	IgG	FALSE	FIM2/3	1.013626e+03	1.91069927
2160	7	IgG	FALSE	TT	2.149415e+04	1.61866345
2161	7	IgG	FALSE	PT	2.082500e+02	1.84700665
2162	7	IgG	FALSE	OVA	2.933428e+02	0.07606951
2163	1	IgG	FALSE	PRN	7.616321e+03	1.20293298
2164	1	IgG	FALSE	DT	2.000625e+04	1.58278959
2165	1	IgG	FALSE	FHA	1.257109e+01	0.05663144
2166	1	IgG	FALSE	FIM2/3	1.023760e+02	0.19298013
2167	1	IgG	FALSE	TT	9.944147e+03	0.74886560
2168	1	IgG	FALSE	PT	2.842500e+02	2.52106430
2169	1	IgG	FALSE	OVA	3.566843e+03	0.92495194
2170	2	IgG	FALSE	PRN	7.669071e+03	1.21126439
2171	2	IgG	FALSE	DT	2.086800e+04	1.65096673
2172	2	IgG	FALSE	FHA	2.232109e+01	0.10055416
2173	2	IgG	FALSE	FIM2/3	1.758760e+02	0.33152867
2174	2	IgG	FALSE	TT	1.006140e+04	0.75769536
2175	2	IgG	FALSE	PT	2.912500e+02	2.58314856
2176	2	IgG	FALSE	OVA	3.685343e+03	0.95568131
2177	3	IgG	FALSE	PRN	7.414071e+03	1.17098931
2178	3	IgG	FALSE	DT	2.063425e+04	1.63247366
2179	3	IgG	FALSE	FHA	2.732109e+01	0.12307863
2180	3	IgG	FALSE	FIM2/3	2.161260e+02	0.40740049
2181	3	IgG	FALSE	TT	9.950397e+03	0.74933627
2182	3	IgG	FALSE	PT	2.995000e+02	2.65631929
2183	3	IgG	FALSE	OVA	3.615843e+03	0.93765860
2184	4	IgG	FALSE	PRN	1.271107e+04	2.00760530
2185	4	IgG	FALSE	DT	2.111875e+04	1.67080476
2186	4	IgG	FALSE	FHA	1.907109e+01	0.08591326
2187	4	IgG	FALSE	FIM2/3	3.798760e+02	0.71607156
2188	4	IgG	FALSE	TT	2.017490e+04	1.51931446
2189	4	IgG	FALSE	PT	3.315000e+02	2.94013304
2190	4	IgG	FALSE	OVA	3.288093e+03	0.85266663
2191	5	IgG	FALSE	PRN	2.086232e+04	3.29502574
2192	5	IgG	FALSE	DT	2.170400e+04	1.71710667
2193	5	IgG	FALSE	FHA	3.307109e+01	0.14898178
2194	5	IgG	FALSE	FIM2/3	3.605126e+03	6.79571341
2195	5	IgG	FALSE	TT	2.447015e+04	1.84277760
2196	5	IgG	FALSE	PT	5.167500e+02	4.58314856
2197	5	IgG	FALSE	OVA	3.415093e+03	0.88560021

2198	6	IgG	FALSE	PRN	1.647257e+04	2.60170216
2199	6	IgG	FALSE	DT	2.129550e+04	1.68478829
2200	6	IgG	FALSE	FHA	4.482109e+01	0.20191429
2201	6	IgG	FALSE	FIM2/3	1.057876e+03	1.99411114
2202	6	IgG	FALSE	TT	2.298790e+04	1.73115354
2203	6	IgG	FALSE	PT	4.777500e+02	4.23725055
2204	6	IgG	FALSE	OVA	3.106343e+03	0.80553531
2205	7	IgG	FALSE	PRN	1.209957e+04	1.91102409
2206	7	IgG	FALSE	DT	2.117975e+04	1.67563076
2207	7	IgG	FALSE	FHA	1.157109e+01	0.05212655
2208	7	IgG	FALSE	FIM2/3	2.537596e+01	0.04783405
2209	7	IgG	FALSE	TT	1.927540e+04	1.45157566
2210	7	IgG	FALSE	PT	4.140000e+02	3.67184035
2211	7	IgG	FALSE	OVA	2.962093e+03	0.76812847
2212	1	IgG	FALSE	PRN	1.954221e+04	3.08652505
2213	1	IgG	FALSE	DT	1.434646e+04	1.13501641
2214	1	IgG	FALSE	FHA	2.219808e+02	1.00000000
2215	1	IgG	FALSE	FIM2/3	1.669447e+03	3.14693203
2216	1	IgG	FALSE	TT	1.806056e+04	1.36009008
2217	1	IgG	FALSE	PT	1.579501e+02	1.40088747
2218	1	IgG	FALSE	OVA	4.687701e+03	1.21561242
2219	2	IgG	FALSE	PRN	1.894021e+04	2.99144428
2220	2	IgG	FALSE	DT	1.381046e+04	1.09261090
2221	2	IgG	FALSE	FHA	4.321157e+01	0.19466355
2222	2	IgG	FALSE	FIM2/3	2.337447e+03	4.40612147
2223	2	IgG	FALSE	TT	1.748856e+04	1.31701438
2224	2	IgG	FALSE	PT	1.472001e+02	1.30554379
2225	2	IgG	FALSE	OVA	4.373201e+03	1.13405643
2226	3	IgG	FALSE	PRN	1.923321e+04	3.03772114
2227	3	IgG	FALSE	DT	1.412896e+04	1.11780895
2228	3	IgG	FALSE	FHA	8.132116e+02	3.66343228
2229	3	IgG	FALSE	FIM2/3	2.746447e+03	5.17709225
2230	3	IgG	FALSE	TT	1.774906e+04	1.33663190
2231	3	IgG	FALSE	PT	1.527001e+02	1.35432428
2232	3	IgG	FALSE	OVA	4.451701e+03	1.15441301
2233	4	IgG	FALSE	PRN	2.080071e+04	3.28529440
2234	4	IgG	FALSE	DT	2.154346e+04	1.70440531
2235	4	IgG	FALSE	FHA	1.301212e+03	5.86182077
2236	4	IgG	FALSE	FIM2/3	1.219020e+04	22.97869452
2237	4	IgG	FALSE	TT	2.488356e+04	1.87391093
2238	4	IgG	FALSE	PT	3.312001e+02	2.93747284
2239	4	IgG	FALSE	OVA	4.149201e+03	1.07596886
2240	5	IgG	FALSE	PRN	2.040171e+04	3.22227575

2241	5	IgG	FALSE	DT	2.192496e+04	1.73458759
2242	5	IgG	FALSE	FHA	1.485462e+03	6.69184757
2243	5	IgG	FALSE	FIM2/3	1.198895e+04	22.59933542
2244	5	IgG	FALSE	TT	2.482106e+04	1.86920423
2245	5	IgG	FALSE	PT	4.364501e+02	3.87095399
2246	5	IgG	FALSE	OVA	4.288701e+03	1.11214393
2247	6	IgG	FALSE	PRN	2.179321e+04	3.44205131
2248	6	IgG	FALSE	DT	2.121321e+04	1.67827766
2249	6	IgG	FALSE	FHA	1.252962e+03	5.64445961
2250	6	IgG	FALSE	FIM2/3	6.930947e+03	13.06493391
2251	6	IgG	FALSE	TT	2.501956e+04	1.88415271
2252	6	IgG	FALSE	PT	3.819501e+02	3.38758370
2253	6	IgG	FALSE	OVA	3.580201e+03	0.92841606
2254	7	IgG	FALSE	PRN	2.221321e+04	3.50838673
2255	7	IgG	FALSE	DT	1.729821e+04	1.36854339
2256	7	IgG	FALSE	FHA	1.455462e+03	6.55670074
2257	7	IgG	FALSE	FIM2/3	3.977447e+03	7.49754466
2258	7	IgG	FALSE	TT	2.200431e+04	1.65708275
2259	7	IgG	FALSE	PT	2.132001e+02	1.89090964
2260	7	IgG	FALSE	OVA	3.247701e+03	0.84219232
2261	1	IgG	FALSE	PRN	2.311764e+03	0.36512340
2262	1	IgG	FALSE	DT	4.568939e+03	0.36147052
2263	1	IgG	FALSE	FHA	8.798254e+02	3.96352048
2264	1	IgG	FALSE	FIM2/3	4.962537e+01	0.09354452
2265	1	IgG	FALSE	TT	4.855140e+03	0.36562690
2266	1	IgG	FALSE	PT	2.420128e+01	0.21464548
2267	1	IgG	FALSE	OVA	2.447565e+03	0.63470130
2268	2	IgG	FALSE	PRN	5.747764e+03	0.90781030
2269	2	IgG	FALSE	DT	7.270439e+03	0.57519904
2270	2	IgG	FALSE	FHA	2.144575e+03	9.66108574
2271	2	IgG	FALSE	FIM2/3	6.462537e+01	0.12181974
2272	2	IgG	FALSE	TT	9.519890e+03	0.71691604
2273	2	IgG	FALSE	PT	5.970128e+01	0.52950135
2274	2	IgG	FALSE	OVA	5.126065e+03	1.32928862
2275	3	IgG	FALSE	PRN	5.989764e+03	0.94603214
2276	3	IgG	FALSE	DT	6.680189e+03	0.52850155
2277	3	IgG	FALSE	FHA	2.217575e+03	9.98994303
2278	3	IgG	FALSE	FIM2/3	2.962537e+01	0.05584424
2279	3	IgG	FALSE	TT	9.222890e+03	0.69454981
2280	3	IgG	FALSE	PT	5.670128e+01	0.50289381
2281	3	IgG	FALSE	OVA	5.028815e+03	1.30406980
2282	4	IgG	FALSE	PRN	1.505651e+04	2.37804799
2283	4	IgG	FALSE	DT	1.473269e+04	1.16557313

2284	4	IgG	FALSE	FHA	4.735825e+03	21.33439349
2285	4	IgG	FALSE	FIM2/3	4.311254e+02	0.81267742
2286	4	IgG	FALSE	TT	2.239964e+04	1.68685361
2287	4	IgG	FALSE	PT	1.527013e+02	1.35433505
2288	4	IgG	FALSE	OVA	3.876315e+03	1.00520406
2289	5	IgG	FALSE	PRN	2.403576e+04	3.79624397
2290	5	IgG	FALSE	DT	2.363794e+04	1.87010981
2291	5	IgG	FALSE	FHA	1.317933e+04	59.37146981
2292	5	IgG	FALSE	FIM2/3	3.412875e+03	6.43331832
2293	5	IgG	FALSE	TT	2.712039e+04	2.04235995
2294	5	IgG	FALSE	PT	4.749513e+02	4.21242818
2295	5	IgG	FALSE	OVA	4.542065e+03	1.17784602
2296	6	IgG	FALSE	PRN	2.351776e+04	3.71443029
2297	6	IgG	FALSE	DT	2.103344e+04	1.66405543
2298	6	IgG	FALSE	FHA	8.779575e+03	39.55106044
2299	6	IgG	FALSE	FIM2/3	1.726625e+03	3.25471323
2300	6	IgG	FALSE	TT	2.712514e+04	2.04271766
2301	6	IgG	FALSE	PT	2.892013e+02	2.56497807
2302	6	IgG	FALSE	OVA	3.912565e+03	1.01460439
2303	7	IgG	FALSE	PRN	1.890051e+04	2.98517502
2304	7	IgG	FALSE	DT	1.379994e+04	1.09177884
2305	7	IgG	FALSE	FHA	5.348075e+03	24.09251512
2306	7	IgG	FALSE	FIM2/3	4.117125e+03	7.76083953
2307	7	IgG	FALSE	TT	2.333064e+04	1.75696459
2308	7	IgG	FALSE	PT	2.177013e+02	1.93083173
2309	7	IgG	FALSE	OVA	5.320565e+03	1.37972627
2310	1	IgG	FALSE	PRN	5.727388e+03	0.90459202
2311	1	IgG	FALSE	DT	1.974370e+04	1.56201839
2312	1	IgG	FALSE	FHA	1.995902e+03	8.99132897
2313	1	IgG	FALSE	FIM2/3	1.354501e+03	2.55325373
2314	1	IgG	FALSE	TT	1.170709e+04	0.88162788
2315	1	IgG	FALSE	PT	2.925000e+01	0.25942350
2316	1	IgG	FALSE	OVA	3.856247e+03	1.00000000
2317	2	IgG	FALSE	PRN	5.673138e+03	0.89602370
2318	2	IgG	FALSE	DT	1.948895e+04	1.54186390
2319	2	IgG	FALSE	FHA	1.948152e+03	8.77622026
2320	2	IgG	FALSE	FIM2/3	1.272501e+03	2.39868258
2321	2	IgG	FALSE	TT	1.132259e+04	0.85267227
2322	2	IgG	FALSE	PT	3.275000e+01	0.29046563
2323	2	IgG	FALSE	OVA	3.755497e+03	0.97387356
2324	3	IgG	FALSE	PRN	6.824138e+03	1.07781433
2325	3	IgG	FALSE	DT	2.100145e+04	1.66152497
2326	3	IgG	FALSE	FHA	2.352652e+03	10.59845007

2327	3	IgG	FALSE	FIM2/3	1.609251e+03	3.03346109
2328	3	IgG	FALSE	TT	1.342259e+04	1.01081733
2329	3	IgG	FALSE	PT	3.225000e+01	0.28603104
2330	3	IgG	FALSE	OVA	4.843247e+03	1.25594836
2331	4	IgG	FALSE	PRN	2.254189e+04	3.56029893
2332	4	IgG	FALSE	DT	2.266270e+04	1.79295436
2333	4	IgG	FALSE	FHA	4.445402e+03	20.02606794
2334	4	IgG	FALSE	FIM2/3	2.039800e+04	38.45052046
2335	4	IgG	FALSE	TT	2.491334e+04	1.87615324
2336	4	IgG	FALSE	PT	1.077500e+02	0.95565410
2337	4	IgG	FALSE	OVA	4.066247e+03	1.05445710
2338	5	IgG	FALSE	PRN	2.302489e+04	3.63658467
2339	5	IgG	FALSE	DT	2.265370e+04	1.79224233
2340	5	IgG	FALSE	FHA	5.088652e+03	22.92384129
2341	5	IgG	FALSE	FIM2/3	2.373600e+04	44.74269766
2342	5	IgG	FALSE	TT	2.594734e+04	1.95402086
2343	5	IgG	FALSE	PT	1.687500e+02	1.49667406
2344	5	IgG	FALSE	OVA	4.164497e+03	1.07993524
2345	6	IgG	FALSE	PRN	2.177639e+04	3.43939474
2346	6	IgG	FALSE	DT	2.207870e+04	1.74675134
2347	6	IgG	FALSE	FHA	6.205152e+03	27.95355595
2348	6	IgG	FALSE	FIM2/3	1.494525e+04	28.17200963
2349	6	IgG	FALSE	TT	2.525609e+04	1.90196477
2350	6	IgG	FALSE	PT	4.927500e+02	4.37028825
2351	6	IgG	FALSE	OVA	4.468497e+03	1.15876837
2352	7	IgG	FALSE	PRN	1.443164e+04	2.27935410
2353	7	IgG	FALSE	DT	1.868570e+04	1.47831497
2354	7	IgG	FALSE	FHA	3.414152e+03	15.38039553
2355	7	IgG	FALSE	FIM2/3	1.541825e+04	29.06362131
2356	7	IgG	FALSE	TT	1.949359e+04	1.46800718
2357	7	IgG	FALSE	PT	4.225000e+01	0.37472284
2358	7	IgG	FALSE	OVA	3.050247e+03	0.79098847
2359	1	IgG	FALSE	PRN	1.266207e+03	0.19998668
2360	1	IgG	FALSE	DT	1.614021e+04	1.27692851
2361	1	IgG	FALSE	FHA	1.324616e+02	0.59672538
2362	1	IgG	FALSE	FIM2/3	1.579697e+03	2.97775201
2363	1	IgG	FALSE	TT	8.394565e+03	0.63217094
2364	1	IgG	FALSE	PT	2.645006e+01	0.23459035
2365	1	IgG	FALSE	OVA	1.717951e+03	0.44549829
2366	2	IgG	FALSE	PRN	1.348957e+03	0.21305633
2367	2	IgG	FALSE	DT	1.604696e+04	1.26955106
2368	2	IgG	FALSE	FHA	2.398078e+01	0.10803090
2369	2	IgG	FALSE	FIM2/3	1.998447e+03	3.76710168

2370	2	IgG	FALSE	TT	8.358065e+03	0.62942223
2371	2	IgG	FALSE	PT	2.345006e+01	0.20798281
2372	2	IgG	FALSE	OVA	1.681451e+03	0.43603313
2373	3	IgG	FALSE	PRN	1.934621e+04	3.05556852
2374	3	IgG	FALSE	DT	2.244246e+04	1.77552948
2375	3	IgG	FALSE	FHA	7.944616e+02	3.57896551
2376	3	IgG	FALSE	FIM2/3	1.350295e+04	25.45324683
2377	3	IgG	FALSE	TT	2.426506e+04	1.82733344
2378	3	IgG	FALSE	PT	3.737001e+02	3.31441297
2379	3	IgG	FALSE	OVA	2.102201e+03	0.54514181
2380	4	IgG	FALSE	PRN	1.757796e+04	2.77628851
2381	4	IgG	FALSE	DT	2.297571e+04	1.81771742
2382	4	IgG	FALSE	FHA	5.009616e+02	2.25677898
2383	4	IgG	FALSE	FIM2/3	1.020245e+04	19.23175766
2384	4	IgG	FALSE	TT	2.334156e+04	1.75778727
2385	4	IgG	FALSE	PT	4.717001e+02	4.18359257
2386	4	IgG	FALSE	OVA	1.951701e+03	0.50611423
2387	5	IgG	FALSE	PRN	2.079971e+04	3.28513645
2388	5	IgG	FALSE	DT	2.313321e+04	1.83017800
2389	5	IgG	FALSE	FHA	9.649616e+02	4.34705001
2390	5	IgG	FALSE	FIM2/3	1.328120e+04	25.03524494
2391	5	IgG	FALSE	TT	2.492556e+04	1.87707383
2392	5	IgG	FALSE	PT	6.152001e+02	5.45631984
2393	5	IgG	FALSE	OVA	1.823201e+03	0.47279167
2394	6	IgG	FALSE	PRN	1.844121e+04	2.91263149
2395	6	IgG	FALSE	DT	2.198671e+04	1.73947293
2396	6	IgG	FALSE	FHA	7.502116e+02	3.37962393
2397	6	IgG	FALSE	FIM2/3	1.412670e+04	26.62902439
2398	6	IgG	FALSE	TT	2.303031e+04	1.73434791
2399	6	IgG	FALSE	PT	3.372001e+02	2.99068791
2400	6	IgG	FALSE	OVA	2.001701e+03	0.51908020
2401	7	IgG	FALSE	PRN	1.564646e+04	2.47122455
2402	7	IgG	FALSE	DT	1.992971e+04	1.57673387
2403	7	IgG	FALSE	FHA	2.242116e+02	1.01004944
2404	7	IgG	FALSE	FIM2/3	6.324947e+03	11.92261535
2405	7	IgG	FALSE	TT	1.974756e+04	1.48713329
2406	7	IgG	FALSE	PT	1.162001e+02	1.03059922
2407	7	IgG	FALSE	OVA	4.253451e+03	1.10300292
2408	1	IgG	FALSE	PRN	6.372092e+02	0.10064176
2409	1	IgG	FALSE	DT	6.709575e+02	0.19369270
2410	1	IgG	FALSE	FHA	0.000000e+00	0.03185452
2411	1	IgG	FALSE	FIM2/3	4.474411e-01	0.02615638
2412	1	IgG	FALSE	TT	8.423148e+02	0.19257151

2413	1	IgG	FALSE	PT	5.447441e+00	0.04831433
2414	1	IgG	FALSE	OVA	2.032862e+03	0.52716088
2415	2	IgG	FALSE	PRN	9.307092e+02	0.14699759
2416	2	IgG	FALSE	DT	9.657075e+02	0.19369270
2417	2	IgG	FALSE	FHA	0.000000e+00	0.03185452
2418	2	IgG	FALSE	FIM2/3	6.947441e+00	0.02615638
2419	2	IgG	FALSE	TT	1.270315e+03	0.19257151
2420	2	IgG	FALSE	PT	6.447441e+00	0.05718351
2421	2	IgG	FALSE	OVA	3.292612e+03	0.85383863
2422	3	IgG	FALSE	PRN	1.020959e+03	0.16125180
2423	3	IgG	FALSE	DT	1.032457e+03	0.19369270
2424	3	IgG	FALSE	FHA	0.000000e+00	0.03185452
2425	3	IgG	FALSE	FIM2/3	6.697441e+00	0.02615638
2426	3	IgG	FALSE	TT	1.350565e+03	0.19257151
2427	3	IgG	FALSE	PT	5.197441e+00	0.04609704
2428	3	IgG	FALSE	OVA	3.172362e+03	0.82265546
2429	4	IgG	FALSE	PRN	1.911046e+04	3.01833409
2430	4	IgG	FALSE	DT	9.563707e+03	0.75663039
2431	4	IgG	FALSE	FHA	5.179908e+00	0.03185452
2432	4	IgG	FALSE	FIM2/3	5.596447e+03	10.54938255
2433	4	IgG	FALSE	TT	2.429906e+04	1.82989389
2434	4	IgG	FALSE	PT	6.719744e+01	0.59598617
2435	4	IgG	FALSE	OVA	4.304362e+03	1.11620515
2436	5	IgG	FALSE	PRN	2.119471e+04	3.34752361
2437	5	IgG	FALSE	DT	1.716996e+04	1.35839700
2438	5	IgG	FALSE	FHA	4.792991e+01	0.21591918
2439	5	IgG	FALSE	FIM2/3	1.228545e+04	23.15824211
2440	5	IgG	FALSE	TT	2.439256e+04	1.83693511
2441	5	IgG	FALSE	PT	1.339474e+02	1.18800391
2442	5	IgG	FALSE	OVA	5.041612e+03	1.30738846
2443	6	IgG	FALSE	PRN	1.683721e+04	2.65929364
2444	6	IgG	FALSE	DT	1.479171e+04	1.17024233
2445	6	IgG	FALSE	FHA	1.344299e+02	0.60559255
2446	6	IgG	FALSE	FIM2/3	8.472447e+03	15.97068321
2447	6	IgG	FALSE	TT	2.307806e+04	1.73794383
2448	6	IgG	FALSE	PT	8.294744e+01	0.73567575
2449	6	IgG	FALSE	OVA	4.422362e+03	1.14680485
2450	7	IgG	FALSE	PRN	7.316709e+03	1.15561184
2451	7	IgG	FALSE	DT	9.973207e+03	0.78902788
2452	7	IgG	FALSE	FHA	5.432150e+02	2.44712603
2453	7	IgG	FALSE	FIM2/3	3.028447e+03	5.70866624
2454	7	IgG	FALSE	TT	1.464231e+04	1.10267134
2455	7	IgG	FALSE	PT	5.094744e+01	0.45186201

2456	7	IgG	FALSE	OVA	5.219362e+03	1.35348251
2457	1	IgG	FALSE	PRN	1.328171e+04	2.09773245
2458	1	IgG	FALSE	DT	6.419957e+03	0.50791330
2459	1	IgG	FALSE	FHA	1.509616e+02	0.68006593
2460	1	IgG	FALSE	FIM2/3	1.619474e+02	0.30527322
2461	1	IgG	FALSE	TT	3.110065e+03	0.23421019
2462	1	IgG	FALSE	PT	2.995006e+01	0.26563248
2463	1	IgG	FALSE	OVA	3.278451e+03	0.85016639
2464	2	IgG	FALSE	PRN	1.345771e+04	2.12553015
2465	2	IgG	FALSE	DT	6.547457e+03	0.51800043
2466	2	IgG	FALSE	FHA	2.171157e+01	0.09780832
2467	2	IgG	FALSE	FIM2/3	1.034474e+02	0.19499989
2468	2	IgG	FALSE	TT	3.110065e+03	0.23421019
2469	2	IgG	FALSE	PT	2.795006e+01	0.24789412
2470	2	IgG	FALSE	OVA	3.335201e+03	0.86488277
2471	3	IgG	FALSE	PRN	1.373096e+04	2.16868766
2472	3	IgG	FALSE	DT	6.730707e+03	0.53249821
2473	3	IgG	FALSE	FHA	1.746157e+01	0.07866252
2474	3	IgG	FALSE	FIM2/3	2.219474e+02	0.41837406
2475	3	IgG	FALSE	TT	3.252315e+03	0.24492263
2476	3	IgG	FALSE	PT	3.045006e+01	0.27006707
2477	3	IgG	FALSE	OVA	3.317451e+03	0.86027985
2478	4	IgG	FALSE	PRN	2.051996e+04	3.24095233
2479	4	IgG	FALSE	DT	1.870371e+04	1.47973918
2480	4	IgG	FALSE	FHA	1.755712e+03	7.90929530
2481	4	IgG	FALSE	FIM2/3	6.567697e+03	12.38020253
2482	4	IgG	FALSE	TT	1.658081e+04	1.24865429
2483	4	IgG	FALSE	PT	7.695006e+01	0.68248392
2484	4	IgG	FALSE	OVA	3.597951e+03	0.93301898
2485	5	IgG	FALSE	PRN	2.328821e+04	3.67817381
2486	5	IgG	FALSE	DT	2.006246e+04	1.58723636
2487	5	IgG	FALSE	FHA	2.335212e+03	10.51988163
2488	5	IgG	FALSE	FIM2/3	6.996197e+03	13.18793109
2489	5	IgG	FALSE	TT	2.208606e+04	1.66323911
2490	5	IgG	FALSE	PT	2.219501e+02	1.96851497
2491	5	IgG	FALSE	OVA	3.684451e+03	0.95545011
2492	6	IgG	FALSE	PRN	2.195121e+04	3.46700606
2493	6	IgG	FALSE	DT	1.781396e+04	1.40934683
2494	6	IgG	FALSE	FHA	1.267962e+03	5.71203303
2495	6	IgG	FALSE	FIM2/3	8.735447e+03	16.46644192
2496	6	IgG	FALSE	TT	2.033556e+04	1.53141390
2497	6	IgG	FALSE	PT	1.937001e+02	1.71796064
2498	6	IgG	FALSE	OVA	3.459451e+03	0.89710322

2499	7	IgG	FALSE	PRN	1.944621e+04	3.07136267
2500	7	IgG	FALSE	DT	1.092146e+04	0.86404837
2501	7	IgG	FALSE	FHA	1.042212e+03	4.69505311
2502	7	IgG	FALSE	FIM2/3	3.855947e+03	7.26851544
2503	7	IgG	FALSE	TT	1.379431e+04	1.03881086
2504	7	IgG	FALSE	PT	6.795006e+01	0.60266131
2505	7	IgG	FALSE	OVA	4.045701e+03	1.04912929
2506	1	IgG	FALSE	PRN	4.559709e+03	0.72016719
2507	1	IgG	FALSE	DT	1.309496e+04	1.03600437
2508	1	IgG	FALSE	FHA	2.614299e+02	1.17771414
2509	1	IgG	FALSE	FIM2/3	4.256947e+03	8.02440611
2510	1	IgG	FALSE	TT	9.442315e+03	0.71107404
2511	1	IgG	FALSE	PT	1.016974e+02	0.90197287
2512	1	IgG	FALSE	OVA	8.312862e+03	2.15568742
2513	2	IgG	FALSE	PRN	3.684209e+03	0.58188943
2514	2	IgG	FALSE	DT	1.162146e+04	0.91942877
2515	2	IgG	FALSE	FHA	9.929908e+00	0.04473319
2516	2	IgG	FALSE	FIM2/3	2.445197e+03	4.60923175
2517	2	IgG	FALSE	TT	8.405065e+03	0.63296167
2518	2	IgG	FALSE	PT	8.394744e+01	0.74454493
2519	2	IgG	FALSE	OVA	7.550362e+03	1.95795629
2520	3	IgG	FALSE	PRN	4.369709e+03	0.69015831
2521	3	IgG	FALSE	DT	1.222921e+04	0.96751077
2522	3	IgG	FALSE	FHA	8.367991e+01	0.37696916
2523	3	IgG	FALSE	FIM2/3	3.452197e+03	6.50744098
2524	3	IgG	FALSE	TT	8.956565e+03	0.67449358
2525	3	IgG	FALSE	PT	1.066974e+02	0.94631877
2526	3	IgG	FALSE	OVA	8.148612e+03	2.11309419
2527	4	IgG	FALSE	PRN	1.894746e+04	2.99258963
2528	4	IgG	FALSE	DT	2.217046e+04	1.75401034
2529	4	IgG	FALSE	FHA	7.167991e+01	0.32291042
2530	4	IgG	FALSE	FIM2/3	3.303947e+03	6.22798764
2531	4	IgG	FALSE	TT	2.502781e+04	1.88477399
2532	4	IgG	FALSE	PT	2.704474e+02	2.39864693
2533	4	IgG	FALSE	OVA	7.487862e+03	1.94174882
2534	5	IgG	FALSE	PRN	2.207021e+04	3.48580137
2535	5	IgG	FALSE	DT	2.429546e+04	1.92212919
2536	5	IgG	FALSE	FHA	2.058430e+03	9.27300948
2537	5	IgG	FALSE	FIM2/3	7.373197e+03	13.89858142
2538	5	IgG	FALSE	TT	2.624931e+04	1.97676170
2539	5	IgG	FALSE	PT	4.874474e+02	4.32325890
2540	5	IgG	FALSE	OVA	8.411112e+03	2.18116557
2541	6	IgG	FALSE	PRN	2.081521e+04	3.28758482

2542	6	IgG	FALSE	DT	2.333896e+04	1.84645593
2543	6	IgG	FALSE	FHA	1.431430e+03	6.44844065
2544	6	IgG	FALSE	FIM2/3	9.305947e+03	17.54184249
2545	6	IgG	FALSE	TT	2.661806e+04	2.00453122
2546	6	IgG	FALSE	PT	3.859474e+02	3.42303717
2547	6	IgG	FALSE	OVA	7.949862e+03	2.06155444
2548	7	IgG	FALSE	PRN	1.897271e+04	2.99657766
2549	7	IgG	FALSE	DT	1.958996e+04	1.54985471
2550	7	IgG	FALSE	FHA	1.787930e+03	8.05443553
2551	7	IgG	FALSE	FIM2/3	9.735947e+03	18.35239857
2552	7	IgG	FALSE	TT	2.590781e+04	1.95104430
2553	7	IgG	FALSE	PT	2.526974e+02	2.24121899
2554	7	IgG	FALSE	OVA	8.305362e+03	2.15374253
2555	1	IgG	FALSE	PRN	6.621704e+03	1.04584162
2556	1	IgG	FALSE	DT	1.643462e+04	1.30022072
2557	1	IgG	FALSE	FHA	4.663370e+00	0.03185452
2558	1	IgG	FALSE	FIM2/3	4.650000e+01	0.08765316
2559	1	IgG	FALSE	TT	2.773947e+03	0.20889814
2560	1	IgG	FALSE	PT	2.025000e+01	0.17960089
2561	1	IgG	FALSE	OVA	1.389825e+04	3.60408744
2562	2	IgG	FALSE	PRN	6.510704e+03	1.02831011
2563	2	IgG	FALSE	DT	1.733962e+04	1.37181958
2564	2	IgG	FALSE	FHA	2.663370e+00	0.03185452
2565	2	IgG	FALSE	FIM2/3	2.350000e+01	0.04429783
2566	2	IgG	FALSE	TT	3.055447e+03	0.23009711
2567	2	IgG	FALSE	PT	2.225000e+01	0.19733925
2568	2	IgG	FALSE	OVA	1.235425e+04	3.20369811
2569	3	IgG	FALSE	PRN	6.107704e+03	0.96465970
2570	3	IgG	FALSE	DT	1.703312e+04	1.34757090
2571	3	IgG	FALSE	FHA	5.163370e+00	0.03185452
2572	3	IgG	FALSE	FIM2/3	2.150000e+01	0.04052780
2573	3	IgG	FALSE	TT	2.897447e+03	0.21819858
2574	3	IgG	FALSE	PT	2.525000e+01	0.22394678
2575	3	IgG	FALSE	OVA	1.378175e+04	3.57387671
2576	4	IgG	FALSE	PRN	1.442970e+04	2.27904864
2577	4	IgG	FALSE	DT	2.270212e+04	1.79607245
2578	4	IgG	FALSE	FHA	1.616337e+01	0.07281427
2579	4	IgG	FALSE	FIM2/3	6.605000e+02	1.24505184
2580	4	IgG	FALSE	TT	1.845945e+04	1.39012881
2581	4	IgG	FALSE	PT	1.802500e+02	1.59866962
2582	4	IgG	FALSE	OVA	1.364125e+04	3.53744232
2583	5	IgG	FALSE	PRN	2.148470e+04	3.39332574
2584	5	IgG	FALSE	DT	2.508262e+04	1.98440513

2585	5	IgG	FALSE	FHA	2.566337e+01	0.11561077
2586	5	IgG	FALSE	FIM2/3	7.835000e+02	1.47690858
2587	5	IgG	FALSE	TT	2.227220e+04	1.67725624
2588	5	IgG	FALSE	PT	3.777500e+02	3.35033259
2589	5	IgG	FALSE	OVA	1.298525e+04	3.36732872
2590	6	IgG	FALSE	PRN	1.913845e+04	3.02275556
2591	6	IgG	FALSE	DT	2.382637e+04	1.88501722
2592	6	IgG	FALSE	FHA	1.491337e+01	0.06718316
2593	6	IgG	FALSE	FIM2/3	5.887500e+02	1.10980207
2594	6	IgG	FALSE	TT	2.028145e+04	1.52733848
2595	6	IgG	FALSE	PT	3.235000e+02	2.86917960
2596	6	IgG	FALSE	OVA	1.302675e+04	3.37809048
2597	7	IgG	FALSE	PRN	1.468695e+04	2.31967909
2598	7	IgG	FALSE	DT	2.020062e+04	1.59816689
2599	7	IgG	FALSE	FHA	2.166337e+01	0.09759119
2600	7	IgG	FALSE	FIM2/3	6.345000e+02	1.19604147
2601	7	IgG	FALSE	TT	1.435545e+04	1.08106817
2602	7	IgG	FALSE	PT	1.822500e+02	1.61640798
2603	7	IgG	FALSE	OVA	1.239100e+04	3.21322810
2604	1	IgG	FALSE	PRN	1.293870e+04	2.04355791
2605	1	IgG	FALSE	DT	1.263987e+04	1.00000000
2606	1	IgG	FALSE	FHA	2.016337e+01	0.09083385
2607	1	IgG	FALSE	FIM2/3	5.305000e+02	1.00000000
2608	1	IgG	FALSE	TT	1.240595e+04	0.93425684
2609	1	IgG	FALSE	PT	2.237500e+02	1.98447894
2610	1	IgG	FALSE	OVA	1.770250e+03	0.45906037
2611	2	IgG	FALSE	PRN	1.282695e+04	2.02590795
2612	2	IgG	FALSE	DT	1.258837e+04	0.99592559
2613	2	IgG	FALSE	FHA	1.291337e+01	0.05817337
2614	2	IgG	FALSE	FIM2/3	4.655000e+02	0.87747408
2615	2	IgG	FALSE	TT	1.232645e+04	0.92826992
2616	2	IgG	FALSE	PT	2.157500e+02	1.91352550
2617	2	IgG	FALSE	OVA	1.794750e+03	0.46541370
2618	3	IgG	FALSE	PRN	1.224270e+04	1.93363064
2619	3	IgG	FALSE	DT	1.240137e+04	0.98113113
2620	3	IgG	FALSE	FHA	2.441337e+01	0.10997965
2621	3	IgG	FALSE	FIM2/3	6.332500e+02	1.19368520
2622	3	IgG	FALSE	TT	1.192845e+04	0.89829766
2623	3	IgG	FALSE	PT	2.207500e+02	1.95787140
2624	3	IgG	FALSE	OVA	1.652250e+03	0.42846067
2625	4	IgG	FALSE	PRN	1.806920e+04	2.85387664
2626	4	IgG	FALSE	DT	1.872787e+04	1.48165064
2627	4	IgG	FALSE	FHA	2.366337e+01	0.10660098

2628	4	IgG	FALSE	FIM2/3	7.145000e+02	1.34684260
2629	4	IgG	FALSE	TT	2.397395e+04	1.80541022
2630	4	IgG	FALSE	PT	5.862500e+02	5.19955654
2631	4	IgG	FALSE	OVA	1.599500e+03	0.41478156
2632	5	IgG	FALSE	PRN	1.876395e+04	2.96360648
2633	5	IgG	FALSE	DT	1.903162e+04	1.50568174
2634	5	IgG	FALSE	FHA	3.241337e+01	0.14601881
2635	5	IgG	FALSE	FIM2/3	8.280000e+02	1.56079171
2636	5	IgG	FALSE	TT	2.464520e+04	1.85596016
2637	5	IgG	FALSE	PT	6.452500e+02	5.72283814
2638	5	IgG	FALSE	OVA	1.555750e+03	0.40343633
2639	6	IgG	FALSE	PRN	1.748070e+04	2.76092808
2640	6	IgG	FALSE	DT	1.786962e+04	1.41375040
2641	6	IgG	FALSE	FHA	2.016337e+01	0.09083385
2642	6	IgG	FALSE	FIM2/3	7.335000e+02	1.38265787
2643	6	IgG	FALSE	TT	2.374870e+04	1.78844728
2644	6	IgG	FALSE	PT	5.962500e+02	5.28824834
2645	6	IgG	FALSE	OVA	1.500750e+03	0.38917376
2646	7	IgG	FALSE	PRN	1.589745e+04	2.51086724
2647	7	IgG	FALSE	DT	1.411687e+04	1.11685249
2648	7	IgG	FALSE	FHA	2.166337e+01	0.09759119
2649	7	IgG	FALSE	FIM2/3	7.435000e+02	1.40150801
2650	7	IgG	FALSE	TT	2.068445e+04	1.55768727
2651	7	IgG	FALSE	PT	3.962500e+02	3.51441242
2652	7	IgG	FALSE	OVA	1.787750e+03	0.46359846
2653	1	IgG	FALSE	PRN	8.837071e+03	1.39574003
2654	1	IgG	FALSE	DT	2.693250e+03	0.21307582
2655	1	IgG	FALSE	FHA	1.307109e+01	0.05888389
2656	1	IgG	FALSE	FIM2/3	1.673760e+02	0.31550605
2657	1	IgG	FALSE	TT	2.166015e+04	1.63116444
2658	1	IgG	FALSE	PT	5.990000e+02	5.31263858
2659	1	IgG	FALSE	OVA	2.463843e+03	0.63892252
2660	2	IgG	FALSE	PRN	8.573571e+03	1.35412245
2661	2	IgG	FALSE	DT	2.448250e+03	0.19369270
2662	2	IgG	FALSE	FHA	1.857109e+01	0.08366081
2663	2	IgG	FALSE	FIM2/3	2.813760e+02	0.53039767
2664	2	IgG	FALSE	TT	2.136990e+04	1.60930654
2665	2	IgG	FALSE	PT	5.572500e+02	4.94235033
2666	2	IgG	FALSE	OVA	4.202343e+03	1.08974950
2667	3	IgG	FALSE	PRN	8.450071e+03	1.33461668
2668	3	IgG	FALSE	DT	2.496500e+03	0.19750999
2669	3	IgG	FALSE	FHA	1.282109e+01	0.05775766
2670	3	IgG	FALSE	FIM2/3	2.788760e+02	0.52568513

2671	3	IgG	FALSE	TT	2.155465e+04	1.62321954
2672	3	IgG	FALSE	PT	5.192500e+02	4.60532151
2673	3	IgG	FALSE	OVA	4.050843e+03	1.05046259
2674	4	IgG	FALSE	PRN	1.221507e+04	1.92926633
2675	4	IgG	FALSE	DT	6.524000e+03	0.51614467
2676	4	IgG	FALSE	FHA	2.907109e+01	0.13096220
2677	4	IgG	FALSE	FIM2/3	2.359876e+03	4.44839955
2678	4	IgG	FALSE	TT	2.361915e+04	1.77869120
2679	4	IgG	FALSE	PT	7.097500e+02	6.29490022
2680	4	IgG	FALSE	OVA	3.898343e+03	1.01091636
2681	5	IgG	FALSE	PRN	1.997282e+04	3.15453680
2682	5	IgG	FALSE	DT	1.430750e+04	1.13193437
2683	5	IgG	FALSE	FHA	2.357109e+01	0.10618528
2684	5	IgG	FALSE	FIM2/3	1.108126e+03	2.08883310
2685	5	IgG	FALSE	TT	2.570065e+04	1.93544308
2686	5	IgG	FALSE	PT	9.937500e+02	8.81374723
2687	5	IgG	FALSE	OVA	4.463593e+03	1.15749672
2688	6	IgG	FALSE	PRN	1.839057e+04	2.90463390
2689	6	IgG	FALSE	DT	2.178325e+04	1.72337651
2690	6	IgG	FALSE	FHA	2.907109e+01	0.13096220
2691	6	IgG	FALSE	FIM2/3	5.753760e+02	1.08459182
2692	6	IgG	FALSE	TT	2.445765e+04	1.84183626
2693	6	IgG	FALSE	PT	8.770000e+02	7.77827051
2694	6	IgG	FALSE	OVA	3.548093e+03	0.92008970
2695	7	IgG	FALSE	PRN	8.506071e+03	1.34346140
2696	7	IgG	FALSE	DT	7.554000e+03	0.59763287
2697	7	IgG	FALSE	FHA	7.071092e+00	0.03185452
2698	7	IgG	FALSE	FIM2/3	3.691260e+02	0.69580766
2699	7	IgG	FALSE	TT	1.130015e+04	0.85098212
2700	7	IgG	FALSE	PT	6.392500e+02	5.66962306
2701	7	IgG	FALSE	OVA	1.562343e+03	0.40514598
2702	1	IgG	FALSE	PRN	6.331459e+03	1.00000000
2703	1	IgG	FALSE	DT	8.688957e+03	0.68742475
2704	1	IgG	FALSE	FHA	6.492991e+01	0.29250238
2705	1	IgG	FALSE	FIM2/3	5.304474e+02	0.99990093
2706	1	IgG	FALSE	TT	1.875656e+04	1.41250388
2707	1	IgG	FALSE	PT	4.416974e+02	3.91749393
2708	1	IgG	FALSE	OVA	9.768112e+03	2.53306215
2709	2	IgG	FALSE	PRN	6.984459e+03	1.10313578
2710	2	IgG	FALSE	DT	9.170207e+03	0.72549873
2711	2	IgG	FALSE	FHA	1.799299e+02	0.81056525
2712	2	IgG	FALSE	FIM2/3	1.134197e+03	2.13797821
2713	2	IgG	FALSE	TT	1.933106e+04	1.45576785

2714	2	IgG	FALSE	PT	4.941974e+02	4.38312586
2715	2	IgG	FALSE	OVA	1.050736e+04	2.72476410
2716	3	IgG	FALSE	PRN	6.837459e+03	1.07991839
2717	3	IgG	FALSE	DT	8.761207e+03	0.69314079
2718	3	IgG	FALSE	FHA	1.207430e+03	5.43934430
2719	3	IgG	FALSE	FIM2/3	8.876974e+02	1.67332223
2720	3	IgG	FALSE	TT	1.906231e+04	1.43552905
2721	3	IgG	FALSE	PT	4.849474e+02	4.30108595
2722	3	IgG	FALSE	OVA	1.002611e+04	2.59996658
2723	4	IgG	FALSE	PRN	1.773596e+04	2.80124354
2724	4	IgG	FALSE	DT	1.393646e+04	1.10257944
2725	4	IgG	FALSE	FHA	1.139680e+03	5.13413770
2726	4	IgG	FALSE	FIM2/3	3.608197e+03	6.80150319
2727	4	IgG	FALSE	TT	2.205931e+04	1.66122465
2728	4	IgG	FALSE	PT	6.619474e+02	5.87093074
2729	4	IgG	FALSE	OVA	1.041161e+04	2.69993425
2730	5	IgG	FALSE	PRN	1.854521e+04	2.92905768
2731	5	IgG	FALSE	DT	1.948096e+04	1.54123120
2732	5	IgG	FALSE	FHA	1.886680e+03	8.49929385
2733	5	IgG	FALSE	FIM2/3	6.696197e+03	12.62242684
2734	5	IgG	FALSE	TT	2.488206e+04	1.87379797
2735	5	IgG	FALSE	PT	1.078697e+03	9.56716134
2736	5	IgG	FALSE	OVA	1.046536e+04	2.71387268
2737	6	IgG	FALSE	PRN	1.994371e+04	3.14993883
2738	6	IgG	FALSE	DT	1.778021e+04	1.40667678
2739	6	IgG	FALSE	FHA	2.231430e+03	10.05235622
2740	6	IgG	FALSE	FIM2/3	8.083197e+03	15.23694145
2741	6	IgG	FALSE	TT	2.430531e+04	1.83036456
2742	6	IgG	FALSE	PT	8.566974e+02	7.59820347
2743	6	IgG	FALSE	OVA	1.009711e+04	2.61837827
2744	7	IgG	FALSE	PRN	1.672796e+04	2.64203853
2745	7	IgG	FALSE	DT	1.438421e+04	1.13800307
2746	7	IgG	FALSE	FHA	1.257430e+03	5.66458902
2747	7	IgG	FALSE	FIM2/3	7.511447e+03	14.15918462
2748	7	IgG	FALSE	TT	2.249106e+04	1.69373852
2749	7	IgG	FALSE	PT	6.519474e+02	5.78223895
2750	7	IgG	FALSE	OVA	9.918362e+03	2.57202490
2751	1	IgG	FALSE	PRN	5.671454e+03	0.89575773
2752	1	IgG	FALSE	DT	1.457362e+04	1.15298816
2753	1	IgG	FALSE	FHA	3.291337e+01	0.14827126
2754	1	IgG	FALSE	FIM2/3	1.084250e+03	2.04382658
2755	1	IgG	FALSE	TT	3.296197e+03	0.24822731
2756	1	IgG	FALSE	PT	7.875000e+01	0.69844789

2757	1	IgG	FALSE	OVA	1.112325e+04	2.88447578
2758	2	IgG	FALSE	PRN	6.553704e+03	1.03510160
2759	2	IgG	FALSE	DT	1.540287e+04	1.21859407
2760	2	IgG	FALSE	FHA	1.516337e+01	0.06830938
2761	2	IgG	FALSE	FIM2/3	4.435000e+02	0.83600377
2762	2	IgG	FALSE	TT	4.019447e+03	0.30269323
2763	2	IgG	FALSE	PT	8.775000e+01	0.77827051
2764	2	IgG	FALSE	OVA	1.205925e+04	3.12719885
2765	3	IgG	FALSE	PRN	6.041204e+03	0.95415659
2766	3	IgG	FALSE	DT	1.435862e+04	1.13597849
2767	3	IgG	FALSE	FHA	3.866337e+01	0.17417440
2768	3	IgG	FALSE	FIM2/3	2.765000e+02	0.52120641
2769	3	IgG	FALSE	TT	3.399197e+03	0.25598395
2770	3	IgG	FALSE	PT	7.875000e+01	0.69844789
2771	3	IgG	FALSE	OVA	1.150950e+04	2.98463795
2772	4	IgG	FALSE	PRN	1.281970e+04	2.02476287
2773	4	IgG	FALSE	DT	1.933587e+04	1.52975241
2774	4	IgG	FALSE	FHA	3.141337e+01	0.14151392
2775	4	IgG	FALSE	FIM2/3	4.077500e+02	0.76861451
2776	4	IgG	FALSE	TT	1.221945e+04	0.92021205
2777	4	IgG	FALSE	PT	1.402500e+02	1.24390244
2778	4	IgG	FALSE	OVA	1.061325e+04	2.75222283
2779	5	IgG	FALSE	PRN	1.976295e+04	3.12139001
2780	5	IgG	FALSE	DT	2.190112e+04	1.73270154
2781	5	IgG	FALSE	FHA	7.791337e+01	0.35099151
2782	5	IgG	FALSE	FIM2/3	5.515000e+02	1.03958530
2783	5	IgG	FALSE	TT	2.110995e+04	1.58973048
2784	5	IgG	FALSE	PT	3.860000e+02	3.42350333
2785	5	IgG	FALSE	OVA	1.132025e+04	2.93556173
2786	6	IgG	FALSE	PRN	1.657320e+04	2.61759619
2787	6	IgG	FALSE	DT	2.071137e+04	1.63857475
2788	6	IgG	FALSE	FHA	3.266337e+01	0.14714503
2789	6	IgG	FALSE	FIM2/3	5.652500e+02	1.06550424
2790	6	IgG	FALSE	TT	2.107520e+04	1.58711355
2791	6	IgG	FALSE	PT	3.310000e+02	2.93569845
2792	6	IgG	FALSE	OVA	1.018150e+04	2.64026163
2793	7	IgG	FALSE	PRN	1.307895e+04	2.06570920
2794	7	IgG	FALSE	DT	1.889212e+04	1.49464523
2795	7	IgG	FALSE	FHA	4.666337e+01	0.21021356
2796	7	IgG	FALSE	FIM2/3	5.590000e+02	1.05372290
2797	7	IgG	FALSE	TT	1.953470e+04	1.47110285
2798	7	IgG	FALSE	PT	3.047500e+02	2.70288248
2799	7	IgG	FALSE	OVA	1.073150e+04	2.78288736

2800	1	IgG	TRUE	DT	8.680000e+01	0.95594714
2801	1	IgG	TRUE	FHA	5.716800e+03	1.05077612
2802	1	IgG	TRUE	OVA	2.490500e+02	0.08228162
2803	1	IgG	TRUE	PRN	2.149625e+04	1.72754305
2804	1	IgG	TRUE	PT	1.451680e+04	0.94165267
2805	1	IgG	TRUE	TT	2.030795e+04	1.22504200
2806	1	IgG	TRUE	FIM2/3	1.963850e+03	0.69460262
2807	2	IgG	TRUE	DT	9.080000e+01	1.00000000
2808	2	IgG	TRUE	FHA	5.671050e+03	1.04236704
2809	2	IgG	TRUE	OVA	1.000500e+02	0.03305471
2810	2	IgG	TRUE	PRN	2.107625e+04	1.69378981
2811	2	IgG	TRUE	PT	1.560880e+04	1.01248678
2812	2	IgG	TRUE	TT	2.110120e+04	1.27289344
2813	2	IgG	TRUE	FIM2/3	1.472100e+03	0.52067343
2814	3	IgG	TRUE	DT	9.530000e+01	1.04955947
2815	3	IgG	TRUE	FHA	5.801300e+03	1.06630763
2816	3	IgG	TRUE	OVA	9.580000e+01	0.03165059
2817	3	IgG	TRUE	PRN	2.196250e+04	1.76501316
2818	3	IgG	TRUE	PT	1.635080e+04	1.06061766
2819	3	IgG	TRUE	TT	2.183245e+04	1.31700483
2820	3	IgG	TRUE	FIM2/3	1.602100e+03	0.56665370
2821	4	IgG	TRUE	DT	4.340000e+01	0.47797357
2822	4	IgG	TRUE	FHA	2.998400e+03	0.55112075
2823	4	IgG	TRUE	OVA	1.066500e+02	0.03523523
2824	4	IgG	TRUE	PRN	1.042225e+04	0.83758263
2825	4	IgG	TRUE	PT	7.021900e+03	0.45548543
2826	4	IgG	TRUE	TT	9.622100e+03	0.58043656
2827	4	IgG	TRUE	FIM2/3	1.821100e+03	0.64411276
2828	5	IgG	TRUE	DT	9.030000e+01	0.99449339
2829	5	IgG	TRUE	FHA	6.555300e+03	1.20489656
2830	5	IgG	TRUE	OVA	1.628000e+02	0.05378618
2831	5	IgG	TRUE	PRN	2.267200e+04	1.82203203
2832	5	IgG	TRUE	PT	1.513705e+04	0.98188606
2833	5	IgG	TRUE	TT	2.115245e+04	1.27598500
2834	5	IgG	TRUE	FIM2/3	2.620350e+03	0.92680296
2835	6	IgG	TRUE	DT	1.328000e+02	1.46255507
2836	6	IgG	TRUE	FHA	8.461800e+03	1.55532069
2837	6	IgG	TRUE	OVA	1.785500e+02	0.05898969
2838	6	IgG	TRUE	PRN	2.503000e+04	2.01153236
2839	6	IgG	TRUE	PT	2.567130e+04	1.66520501
2840	6	IgG	TRUE	TT	2.979420e+04	1.79728364
2841	6	IgG	TRUE	FIM2/3	1.317435e+04	4.65969299
2842	7	IgG	TRUE	DT	1.139000e+02	1.25440529

2843	7	IgG	TRUE	FHA	5.919400e+03	1.08801500
2844	7	IgG	TRUE	OVA	1.249000e+02	0.04126470
2845	7	IgG	TRUE	PRN	1.397800e+04	1.12333996
2846	7	IgG	TRUE	PT	1.417690e+04	0.91960457
2847	7	IgG	TRUE	TT	1.532510e+04	0.92446018
2848	7	IgG	TRUE	FIM2/3	1.653010e+04	5.84660277
2849	8	IgG	TRUE	DT	2.065500e+02	2.27477974
2850	8	IgG	TRUE	FHA	1.309130e+04	2.40624569
2851	8	IgG	TRUE	OVA	3.600500e+02	0.11895401
2852	8	IgG	TRUE	PRN	2.700925e+04	2.17059450
2853	8	IgG	TRUE	PT	2.811755e+04	1.82388446
2854	8	IgG	TRUE	TT	3.106370e+04	1.87386404
2855	8	IgG	TRUE	FIM2/3	1.841510e+04	6.51331659
2856	9	IgG	TRUE	DT	1.838000e+02	2.02422907
2857	9	IgG	TRUE	FHA	1.207355e+04	2.21917821
2858	9	IgG	TRUE	OVA	2.103000e+02	0.06947932
2859	9	IgG	TRUE	PRN	2.545675e+04	2.04582806
2860	9	IgG	TRUE	PT	2.829555e+04	1.83543068
2861	9	IgG	TRUE	TT	3.136120e+04	1.89181021
2862	9	IgG	TRUE	FIM2/3	1.747035e+04	6.17916387
2863	10	IgG	TRUE	DT	1.473000e+02	1.62224670
2864	10	IgG	TRUE	FHA	9.303550e+03	1.71003851
2865	10	IgG	TRUE	OVA	2.905500e+02	0.09599247
2866	10	IgG	TRUE	PRN	2.304375e+04	1.85190766
2867	10	IgG	TRUE	PT	2.405380e+04	1.56028360
2868	10	IgG	TRUE	TT	3.173595e+04	1.91441636
2869	10	IgG	TRUE	FIM2/3	1.619660e+04	5.72864570
2870	3	IgG	TRUE	DT	2.323000e+02	2.55837004
2871	3	IgG	TRUE	FHA	6.037850e+03	1.10978669
2872	3	IgG	TRUE	OVA	8.423050e+03	2.78282344
2873	3	IgG	TRUE	PRN	2.026680e+04	1.62873847
2874	3	IgG	TRUE	PT	2.098215e+04	1.36103669
2875	3	IgG	TRUE	TT	1.711310e+04	1.03231819
2876	3	IgG	TRUE	FIM2/3	8.426400e+03	2.98036996
2877	4	IgG	TRUE	DT	2.178000e+02	2.39867841
2878	4	IgG	TRUE	FHA	5.902850e+03	1.08497303
2879	4	IgG	TRUE	OVA	8.146300e+03	2.69139025
2880	4	IgG	TRUE	PRN	1.834430e+04	1.47423704
2881	4	IgG	TRUE	PT	2.021065e+04	1.31099226
2882	4	IgG	TRUE	TT	1.631610e+04	0.98424055
2883	4	IgG	TRUE	FIM2/3	7.947400e+03	2.81095038
2884	5	IgG	TRUE	DT	2.588000e+02	2.85022026
2885	5	IgG	TRUE	FHA	6.281850e+03	1.15463510

2886	5	IgG	TRUE	OVA	8.830050e+03	2.91728889
2887	5	IgG	TRUE	PRN	1.966180e+04	1.58011773
2888	5	IgG	TRUE	PT	2.019440e+04	1.30993818
2889	5	IgG	TRUE	TT	1.657735e+04	1.00000000
2890	5	IgG	TRUE	FIM2/3	8.271900e+03	2.92572419
2891	6	IgG	TRUE	DT	2.245500e+02	2.47301762
2892	6	IgG	TRUE	FHA	5.843100e+03	1.07399068
2893	6	IgG	TRUE	OVA	8.202800e+03	2.71005683
2894	6	IgG	TRUE	PRN	1.820155e+04	1.46276495
2895	6	IgG	TRUE	PT	1.947465e+04	1.26325059
2896	6	IgG	TRUE	TT	1.489960e+04	0.89879263
2897	6	IgG	TRUE	FIM2/3	7.660400e+03	2.70944010
2898	7	IgG	TRUE	DT	2.023000e+02	2.22797357
2899	7	IgG	TRUE	FHA	4.995600e+03	0.91821599
2900	7	IgG	TRUE	OVA	7.677300e+03	2.53644113
2901	7	IgG	TRUE	PRN	1.734330e+04	1.39379181
2902	7	IgG	TRUE	PT	2.001815e+04	1.29850548
2903	7	IgG	TRUE	TT	1.424710e+04	0.85943169
2904	7	IgG	TRUE	FIM2/3	7.152900e+03	2.52994023
2905	8	IgG	TRUE	DT	2.358000e+02	2.59691630
2906	8	IgG	TRUE	FHA	7.088350e+03	1.30287379
2907	8	IgG	TRUE	OVA	8.401800e+03	2.77580283
2908	8	IgG	TRUE	PRN	2.245855e+04	1.80487815
2909	8	IgG	TRUE	PT	2.139940e+04	1.38810220
2910	8	IgG	TRUE	TT	2.406110e+04	1.45144429
2911	8	IgG	TRUE	FIM2/3	9.044400e+03	3.19895306
2912	9	IgG	TRUE	DT	2.633000e+02	2.89977974
2913	9	IgG	TRUE	FHA	7.968100e+03	1.46457619
2914	9	IgG	TRUE	OVA	7.946300e+03	2.62531386
2915	9	IgG	TRUE	PRN	2.490280e+04	2.00130995
2916	9	IgG	TRUE	PT	2.221290e+04	1.44087103
2917	9	IgG	TRUE	TT	2.742735e+04	1.65450751
2918	9	IgG	TRUE	FIM2/3	1.085040e+04	3.83772504
2919	10	IgG	TRUE	DT	3.138000e+02	3.45594714
2920	10	IgG	TRUE	FHA	9.275100e+03	1.70480926
2921	10	IgG	TRUE	OVA	8.871300e+03	2.93091714
2922	10	IgG	TRUE	PRN	2.590430e+04	2.08179535
2923	10	IgG	TRUE	PT	2.133640e+04	1.38401562
2924	10	IgG	TRUE	TT	2.785885e+04	1.68053700
2925	10	IgG	TRUE	FIM2/3	1.136290e+04	4.01899339
2926	11	IgG	TRUE	DT	2.308000e+02	2.54185022
2927	11	IgG	TRUE	FHA	6.260850e+03	1.15077520
2928	11	IgG	TRUE	OVA	7.233800e+03	2.38991674

2929	11	IgG	TRUE	PRN	2.089205e+04	1.67898660
2930	11	IgG	TRUE	PT	2.074865e+04	1.34589039
2931	11	IgG	TRUE	TT	2.556485e+04	1.54215541
2932	11	IgG	TRUE	FIM2/3	9.488900e+03	3.35617020
2933	12	IgG	TRUE	DT	2.253000e+02	2.48127753
2934	12	IgG	TRUE	FHA	8.083850e+03	1.48585161
2935	12	IgG	TRUE	OVA	8.098300e+03	2.67553191
2936	12	IgG	TRUE	PRN	2.247155e+04	1.80592289
2937	12	IgG	TRUE	PT	2.051690e+04	1.33085760
2938	12	IgG	TRUE	TT	2.390660e+04	1.44212434
2939	12	IgG	TRUE	FIM2/3	1.012640e+04	3.58165034
2940	3	IgG	TRUE	DT	1.118000e+02	1.23127753
2941	3	IgG	TRUE	FHA	5.593350e+03	1.02808540
2942	3	IgG	TRUE	OVA	9.495500e+02	0.31371415
2943	3	IgG	TRUE	PRN	1.168080e+04	0.93872582
2944	3	IgG	TRUE	PT	1.882440e+04	1.22107120
2945	3	IgG	TRUE	TT	2.607085e+04	1.57267899
2946	3	IgG	TRUE	FIM2/3	9.532400e+03	3.37155590
2947	4	IgG	TRUE	DT	1.118000e+02	1.23127753
2948	4	IgG	TRUE	FHA	5.962350e+03	1.09590942
2949	4	IgG	TRUE	OVA	7.973000e+02	0.26341351
2950	4	IgG	TRUE	PRN	1.216355e+04	0.97752195
2951	4	IgG	TRUE	PT	1.876390e+04	1.21714679
2952	4	IgG	TRUE	TT	2.627085e+04	1.58474364
2953	4	IgG	TRUE	FIM2/3	9.722400e+03	3.43875783
2954	5	IgG	TRUE	DT	1.098000e+02	1.20925110
2955	5	IgG	TRUE	FHA	6.444100e+03	1.18445745
2956	5	IgG	TRUE	OVA	9.573000e+02	0.31627461
2957	5	IgG	TRUE	PRN	1.283155e+04	1.03120567
2958	5	IgG	TRUE	PT	1.844140e+04	1.19622737
2959	5	IgG	TRUE	TT	2.580585e+04	1.55669332
2960	5	IgG	TRUE	FIM2/3	1.027315e+04	3.63355498
2961	6	IgG	TRUE	DT	9.705000e+01	1.06883260
2962	6	IgG	TRUE	FHA	6.032350e+03	1.10877577
2963	6	IgG	TRUE	OVA	8.888000e+02	0.29364345
2964	6	IgG	TRUE	PRN	1.277405e+04	1.02658469
2965	6	IgG	TRUE	PT	1.861765e+04	1.20766007
2966	6	IgG	TRUE	TT	2.590760e+04	1.56283121
2967	6	IgG	TRUE	FIM2/3	9.950400e+03	3.51940013
2968	7	IgG	TRUE	DT	1.273000e+02	1.40198238
2969	7	IgG	TRUE	FHA	6.867600e+03	1.26229885
2970	7	IgG	TRUE	OVA	9.235500e+02	0.30512422
2971	7	IgG	TRUE	PRN	1.387605e+04	1.11514677

2972	7	IgG	TRUE	PT	2.075965e+04	1.34660392
2973	7	IgG	TRUE	TT	2.708760e+04	1.63401267
2974	7	IgG	TRUE	FIM2/3	1.079840e+04	3.81933293
2975	8	IgG	TRUE	DT	2.558000e+02	2.81718062
2976	8	IgG	TRUE	FHA	1.002710e+04	1.84303058
2977	8	IgG	TRUE	OVA	8.163000e+02	0.26969076
2978	8	IgG	TRUE	PRN	2.498155e+04	2.00763868
2979	8	IgG	TRUE	PT	2.763290e+04	1.79244696
2980	8	IgG	TRUE	TT	3.095535e+04	1.86732801
2981	8	IgG	TRUE	FIM2/3	1.290665e+04	4.56500902
2982	9	IgG	TRUE	DT	4.330500e+02	4.76927313
2983	9	IgG	TRUE	FHA	1.630085e+04	2.99617686
2984	9	IgG	TRUE	OVA	1.174300e+03	0.38796749
2985	9	IgG	TRUE	PRN	2.938255e+04	2.36132441
2986	9	IgG	TRUE	PT	2.879040e+04	1.86752982
2987	9	IgG	TRUE	TT	3.129010e+04	1.88752123
2988	9	IgG	TRUE	FIM2/3	1.509865e+04	5.34030701
2989	10	IgG	TRUE	DT	3.670500e+02	4.04240088
2990	10	IgG	TRUE	FHA	1.541310e+04	2.83300402
2991	10	IgG	TRUE	OVA	7.093000e+02	0.23433990
2992	10	IgG	TRUE	PRN	2.809230e+04	2.25763366
2993	10	IgG	TRUE	PT	2.798640e+04	1.81537723
2994	10	IgG	TRUE	TT	3.050285e+04	1.84003173
2995	10	IgG	TRUE	FIM2/3	1.442790e+04	5.10306653
2996	11	IgG	TRUE	DT	2.943000e+02	3.24118943
2997	11	IgG	TRUE	FHA	1.428910e+04	2.62640726
2998	11	IgG	TRUE	OVA	1.049800e+03	0.34683494
2999	11	IgG	TRUE	PRN	2.659880e+04	2.13760874
3000	11	IgG	TRUE	PT	2.538615e+04	1.64670835
3001	11	IgG	TRUE	TT	3.088360e+04	1.86299982
3002	11	IgG	TRUE	FIM2/3	1.321590e+04	4.67438899
3003	12	IgG	TRUE	DT	2.190500e+02	2.41244493
3004	12	IgG	TRUE	FHA	1.194235e+04	2.19506300
3005	12	IgG	TRUE	OVA	1.508050e+03	0.49823246
3006	12	IgG	TRUE	PRN	2.406380e+04	1.93388383
3007	12	IgG	TRUE	PT	2.322065e+04	1.50624015
3008	12	IgG	TRUE	TT	2.852610e+04	1.72078770
3009	12	IgG	TRUE	FIM2/3	1.204665e+04	4.26083189
3010	3	IgG	TRUE	DT	8.930000e+01	0.98348018
3011	3	IgG	TRUE	FHA	4.089100e+03	0.75159681
3012	3	IgG	TRUE	OVA	9.031050e+03	2.98369565
3013	3	IgG	TRUE	PRN	2.305550e+03	0.18528519
3014	3	IgG	TRUE	PT	1.623515e+04	1.05311586

3015	3	IgG	TRUE	TT	1.475260e+04	0.88992511
3016	3	IgG	TRUE	FIM2/3	8.047400e+03	2.84631981
3017	4	IgG	TRUE	DT	6.780000e+01	0.74669604
3018	4	IgG	TRUE	FHA	2.882350e+03	0.52979019
3019	4	IgG	TRUE	OVA	7.684050e+03	2.53867120
3020	4	IgG	TRUE	PRN	1.608050e+03	0.12923071
3021	4	IgG	TRUE	PT	1.500065e+04	0.97303828
3022	4	IgG	TRUE	TT	1.260335e+04	0.76027532
3023	4	IgG	TRUE	FIM2/3	6.147650e+03	2.17438899
3024	5	IgG	TRUE	DT	6.730000e+01	0.74118943
3025	5	IgG	TRUE	FHA	3.384850e+03	0.62215217
3026	5	IgG	TRUE	OVA	7.680300e+03	2.53743227
3027	5	IgG	TRUE	PRN	1.840800e+03	0.14793563
3028	5	IgG	TRUE	PT	1.491915e+04	0.96775167
3029	5	IgG	TRUE	TT	1.306860e+04	0.78834072
3030	5	IgG	TRUE	FIM2/3	6.829650e+03	2.41560853
3031	6	IgG	TRUE	DT	5.580000e+01	0.61453744
3032	6	IgG	TRUE	FHA	3.512100e+03	0.64554135
3033	6	IgG	TRUE	OVA	7.579050e+03	2.50398110
3034	6	IgG	TRUE	PRN	2.566800e+03	0.20628051
3035	6	IgG	TRUE	PT	1.536390e+04	0.99660100
3036	6	IgG	TRUE	TT	1.448285e+04	0.87365291
3037	6	IgG	TRUE	FIM2/3	6.998400e+03	2.47529445
3038	7	IgG	TRUE	DT	1.293000e+02	1.42400881
3039	7	IgG	TRUE	FHA	7.600100e+03	1.39693597
3040	7	IgG	TRUE	OVA	7.885550e+03	2.60524316
3041	7	IgG	TRUE	PRN	1.729930e+04	1.39025576
3042	7	IgG	TRUE	PT	2.161740e+04	1.40224308
3043	7	IgG	TRUE	TT	2.804710e+04	1.69189285
3044	7	IgG	TRUE	FIM2/3	1.427290e+04	5.04824391
3045	8	IgG	TRUE	DT	8.480000e+01	0.93392070
3046	8	IgG	TRUE	FHA	5.658100e+03	1.03998677
3047	8	IgG	TRUE	OVA	7.465550e+03	2.46648275
3048	8	IgG	TRUE	PRN	9.975800e+03	0.80170373
3049	8	IgG	TRUE	PT	1.641665e+04	1.06488911
3050	8	IgG	TRUE	TT	2.340860e+04	1.41208335
3051	8	IgG	TRUE	FIM2/3	8.811400e+03	3.11654228
3052	9	IgG	TRUE	DT	2.693000e+02	2.96585903
3053	9	IgG	TRUE	FHA	1.590585e+04	2.92357390
3054	9	IgG	TRUE	OVA	7.937050e+03	2.62225783
3055	9	IgG	TRUE	PRN	2.585855e+04	2.07811866
3056	9	IgG	TRUE	PT	2.475565e+04	1.60581008
3057	9	IgG	TRUE	TT	3.075910e+04	1.85548957

3058	9	IgG	TRUE	FIM2/3	1.749765e+04	6.18881972
3059	10	IgG	TRUE	DT	2.583000e+02	2.84471366
3060	10	IgG	TRUE	FHA	1.404510e+04	2.58155885
3061	10	IgG	TRUE	OVA	8.075300e+03	2.66793313
3062	10	IgG	TRUE	PRN	2.378655e+04	1.91160268
3063	10	IgG	TRUE	PT	2.549240e+04	1.65360041
3064	10	IgG	TRUE	TT	3.028510e+04	1.82689634
3065	10	IgG	TRUE	FIM2/3	1.615990e+04	5.71566512
3066	11	IgG	TRUE	DT	1.920500e+02	2.11508811
3067	11	IgG	TRUE	FHA	1.191760e+04	2.19051383
3068	11	IgG	TRUE	OVA	7.940800e+03	2.62349676
3069	11	IgG	TRUE	PRN	1.799180e+04	1.44590842
3070	11	IgG	TRUE	PT	2.267640e+04	1.47093661
3071	11	IgG	TRUE	TT	2.934385e+04	1.77011706
3072	11	IgG	TRUE	FIM2/3	1.307815e+04	4.62566760
3073	12	IgG	TRUE	DT	1.538000e+02	1.69383260
3074	12	IgG	TRUE	FHA	9.391350e+03	1.72617658
3075	12	IgG	TRUE	OVA	6.573550e+03	2.17178208
3076	12	IgG	TRUE	PRN	1.478355e+04	1.18807787
3077	12	IgG	TRUE	PT	1.927990e+04	1.25061785
3078	12	IgG	TRUE	TT	2.730010e+04	1.64683137
3079	12	IgG	TRUE	FIM2/3	1.082240e+04	3.82782160
3080	1	IgG	TRUE	DT	6.000000e+01	0.66079295
3081	1	IgG	TRUE	FHA	4.274550e+03	0.78568343
3082	1	IgG	TRUE	OVA	5.947500e+03	1.96494648
3083	1	IgG	TRUE	PRN	1.368425e+04	1.09973279
3084	1	IgG	TRUE	PT	2.537530e+04	1.64600455
3085	1	IgG	TRUE	TT	1.628530e+04	0.98238259
3086	1	IgG	TRUE	FIM2/3	4.723000e+02	0.16704984
3087	2	IgG	TRUE	DT	6.500000e+01	0.71585903
3088	2	IgG	TRUE	FHA	3.819300e+03	0.70200623
3089	2	IgG	TRUE	OVA	5.161000e+03	1.70510110
3090	2	IgG	TRUE	PRN	1.261775e+04	1.01402367
3091	2	IgG	TRUE	PT	2.505980e+04	1.62553920
3092	2	IgG	TRUE	TT	1.572880e+04	0.94881269
3093	2	IgG	TRUE	FIM2/3	3.338000e+02	0.11806317
3094	3	IgG	TRUE	DT	6.825000e+01	0.75165198
3095	3	IgG	TRUE	FHA	3.829800e+03	0.70393618
3096	3	IgG	TRUE	OVA	5.338750e+03	1.76382648
3097	3	IgG	TRUE	PRN	1.311750e+04	1.05418600
3098	3	IgG	TRUE	PT	2.546130e+04	1.65158306
3099	3	IgG	TRUE	TT	1.615705e+04	0.97464613
3100	3	IgG	TRUE	FIM2/3	3.223000e+02	0.11399568

3101	4	IgG	TRUE	DT	6.750000e+01	0.74339207
3102	4	IgG	TRUE	FHA	4.135300e+03	0.76008859
3103	4	IgG	TRUE	OVA	5.666750e+03	1.87219175
3104	4	IgG	TRUE	PRN	1.368475e+04	1.09977297
3105	4	IgG	TRUE	PT	2.530605e+04	1.64151255
3106	4	IgG	TRUE	TT	1.671830e+04	1.00850257
3107	4	IgG	TRUE	FIM2/3	3.873000e+02	0.13698582
3108	5	IgG	TRUE	DT	6.650000e+01	0.73237885
3109	5	IgG	TRUE	FHA	3.710050e+03	0.68192554
3110	5	IgG	TRUE	OVA	4.976500e+03	1.64414563
3111	5	IgG	TRUE	PRN	1.234625e+04	0.99220461
3112	5	IgG	TRUE	PT	2.461455e+04	1.59665743
3113	5	IgG	TRUE	TT	1.541255e+04	0.92973545
3114	5	IgG	TRUE	FIM2/3	3.678000e+02	0.13008878
3115	6	IgG	TRUE	DT	1.327500e+02	1.46200441
3116	6	IgG	TRUE	FHA	8.109800e+03	1.49062135
3117	6	IgG	TRUE	OVA	5.296500e+03	1.74986785
3118	6	IgG	TRUE	PRN	2.517575e+04	2.02324553
3119	6	IgG	TRUE	PT	2.669430e+04	1.73156335
3120	6	IgG	TRUE	TT	2.643905e+04	1.59489002
3121	6	IgG	TRUE	FIM2/3	6.734300e+03	2.38188378
3122	7	IgG	TRUE	DT	2.475000e+02	2.72577093
3123	7	IgG	TRUE	FHA	1.303655e+04	2.39618237
3124	7	IgG	TRUE	OVA	5.764000e+03	1.90432140
3125	7	IgG	TRUE	PRN	2.884775e+04	2.31834529
3126	7	IgG	TRUE	PT	2.769855e+04	1.79670544
3127	7	IgG	TRUE	TT	2.739030e+04	1.65227253
3128	7	IgG	TRUE	FIM2/3	1.253955e+04	4.43516783
3129	8	IgG	TRUE	DT	2.125000e+02	2.34030837
3130	8	IgG	TRUE	FHA	1.199780e+04	2.20525498
3131	8	IgG	TRUE	OVA	5.798500e+03	1.91571957
3132	8	IgG	TRUE	PRN	2.823425e+04	2.26904145
3133	8	IgG	TRUE	PT	2.675580e+04	1.73555263
3134	8	IgG	TRUE	TT	2.696230e+04	1.62645417
3135	8	IgG	TRUE	FIM2/3	1.190230e+04	4.20977611
3136	9	IgG	TRUE	DT	1.817500e+02	2.00165198
3137	9	IgG	TRUE	FHA	9.954800e+03	1.82974148
3138	9	IgG	TRUE	OVA	5.997000e+03	1.98130038
3139	9	IgG	TRUE	PRN	2.805200e+04	2.25439495
3140	9	IgG	TRUE	PT	2.648580e+04	1.71803870
3141	9	IgG	TRUE	TT	2.684455e+04	1.61935110
3142	9	IgG	TRUE	FIM2/3	1.054330e+04	3.72910551
3143	10	IgG	TRUE	DT	1.322500e+02	1.45649780

3144	10	IgG	TRUE	FHA	8.108300e+03	1.49034565
3145	10	IgG	TRUE	OVA	6.056500e+03	2.00095811
3146	10	IgG	TRUE	PRN	2.667725e+04	2.14391337
3147	10	IgG	TRUE	PT	2.509055e+04	1.62753384
3148	10	IgG	TRUE	TT	2.557505e+04	1.54277071
3149	10	IgG	TRUE	FIM2/3	8.713050e+03	3.08175645
3150	1	IgG	TRUE	DT	1.950000e+02	2.14757709
3151	1	IgG	TRUE	FHA	9.679800e+03	1.77919512
3152	1	IgG	TRUE	OVA	1.337000e+03	0.44172063
3153	1	IgG	TRUE	PRN	2.316325e+04	1.86151126
3154	1	IgG	TRUE	PT	2.680430e+04	1.73869865
3155	1	IgG	TRUE	TT	2.362180e+04	1.42494428
3156	1	IgG	TRUE	FIM2/3	1.476800e+03	0.52233580
3157	2	IgG	TRUE	DT	1.885000e+02	2.07599119
3158	2	IgG	TRUE	FHA	9.167550e+03	1.68504103
3159	2	IgG	TRUE	OVA	1.148000e+03	0.37927845
3160	2	IgG	TRUE	PRN	2.238225e+04	1.79874631
3161	2	IgG	TRUE	PT	2.577555e+04	1.67196733
3162	2	IgG	TRUE	TT	2.286380e+04	1.37921924
3163	2	IgG	TRUE	FIM2/3	1.388300e+03	0.49103385
3164	3	IgG	TRUE	DT	2.030000e+02	2.23568282
3165	3	IgG	TRUE	FHA	9.320800e+03	1.71320914
3166	3	IgG	TRUE	OVA	1.229250e+03	0.40612198
3167	3	IgG	TRUE	PRN	2.293750e+04	1.84336889
3168	3	IgG	TRUE	PT	2.676155e+04	1.73592561
3169	3	IgG	TRUE	TT	2.358355e+04	1.42263691
3170	3	IgG	TRUE	FIM2/3	1.412300e+03	0.49952251
3171	4	IgG	TRUE	DT	1.865000e+02	2.05396476
3172	4	IgG	TRUE	FHA	8.935050e+03	1.64230638
3173	4	IgG	TRUE	OVA	1.138250e+03	0.37605722
3174	4	IgG	TRUE	PRN	2.227125e+04	1.78982581
3175	4	IgG	TRUE	PT	2.640780e+04	1.71297912
3176	4	IgG	TRUE	TT	2.313155e+04	1.39537079
3177	4	IgG	TRUE	FIM2/3	1.366550e+03	0.48334100
3178	5	IgG	TRUE	DT	1.745000e+02	1.92180617
3179	5	IgG	TRUE	FHA	9.535300e+03	1.75263530
3180	5	IgG	TRUE	OVA	1.030250e+03	0.34037597
3181	5	IgG	TRUE	PRN	2.177500e+04	1.74994475
3182	5	IgG	TRUE	PT	2.533605e+04	1.64345855
3183	5	IgG	TRUE	TT	2.208980e+04	1.33252902
3184	5	IgG	TRUE	FIM2/3	1.369800e+03	0.48449050
3185	6	IgG	TRUE	DT	2.867500e+02	3.15803965
3186	6	IgG	TRUE	FHA	1.297805e+04	2.38542978

3187	6	IgG	TRUE	OVA	1.308000e+03	0.43213955
3188	6	IgG	TRUE	PRN	2.722650e+04	2.18805376
3189	6	IgG	TRUE	PT	2.744980e+04	1.78056992
3190	6	IgG	TRUE	TT	2.639380e+04	1.59216039
3191	6	IgG	TRUE	FIM2/3	1.839230e+04	6.50525236
3192	7	IgG	TRUE	DT	3.912500e+02	4.30892070
3193	7	IgG	TRUE	FHA	1.638655e+04	3.01192894
3194	7	IgG	TRUE	OVA	1.358500e+03	0.44882384
3195	7	IgG	TRUE	PRN	2.919050e+04	2.34589034
3196	7	IgG	TRUE	PT	2.821530e+04	1.83022515
3197	7	IgG	TRUE	TT	2.755255e+04	1.66205998
3198	7	IgG	TRUE	FIM2/3	2.361780e+04	8.35348212
3199	8	IgG	TRUE	DT	3.637500e+02	4.00605727
3200	8	IgG	TRUE	FHA	1.582305e+04	2.90835485
3201	8	IgG	TRUE	OVA	1.557750e+03	0.51465244
3202	8	IgG	TRUE	PRN	2.941075e+04	2.36359070
3203	8	IgG	TRUE	PT	2.775955e+04	1.80066229
3204	8	IgG	TRUE	TT	2.695755e+04	1.62616763
3205	8	IgG	TRUE	FIM2/3	2.197380e+04	7.77200863
3206	9	IgG	TRUE	DT	3.055000e+02	3.36453744
3207	9	IgG	TRUE	FHA	1.364880e+04	2.50871695
3208	9	IgG	TRUE	OVA	2.573250e+03	0.85015528
3209	9	IgG	TRUE	PRN	2.913925e+04	2.34177164
3210	9	IgG	TRUE	PT	2.763880e+04	1.79282967
3211	9	IgG	TRUE	TT	2.642755e+04	1.59419630
3212	9	IgG	TRUE	FIM2/3	1.879205e+04	6.64664167
3213	10	IgG	TRUE	DT	2.405000e+02	2.64867841
3214	10	IgG	TRUE	FHA	1.221455e+04	2.24509471
3215	10	IgG	TRUE	OVA	3.353500e+03	1.10793577
3216	10	IgG	TRUE	PRN	2.834200e+04	2.27770076
3217	10	IgG	TRUE	PT	2.734530e+04	1.77379138
3218	10	IgG	TRUE	TT	2.561005e+04	1.54488202
3219	10	IgG	TRUE	FIM2/3	1.565080e+04	5.53559934
3220	1	IgG	TRUE	DT	9.030000e+01	0.99449339
3221	1	IgG	TRUE	FHA	5.186100e+03	0.95323083
3222	1	IgG	TRUE	OVA	3.218000e+02	0.10631690
3223	1	IgG	TRUE	PRN	4.162800e+03	0.33454282
3224	1	IgG	TRUE	PT	9.226150e+03	0.59846721
3225	1	IgG	TRUE	TT	1.444410e+04	0.87131538
3226	1	IgG	TRUE	FIM2/3	7.881500e+02	0.27876419
3227	2	IgG	TRUE	DT	8.580000e+01	0.94493392
3228	2	IgG	TRUE	FHA	4.939100e+03	0.90783101
3229	2	IgG	TRUE	OVA	5.470500e+02	0.18073543

3230	2	IgG	TRUE	PRN	4.838050e+03	0.38880919
3231	2	IgG	TRUE	PT	9.872650e+03	0.64040334
3232	2	IgG	TRUE	TT	1.547485e+04	0.93349359
3233	2	IgG	TRUE	FIM2/3	9.301500e+02	0.32898879
3234	3	IgG	TRUE	DT	9.130000e+01	1.00550661
3235	3	IgG	TRUE	FHA	5.226100e+03	0.96058303
3236	3	IgG	TRUE	OVA	2.370500e+02	0.07831703
3237	3	IgG	TRUE	PRN	5.930300e+03	0.47658771
3238	3	IgG	TRUE	PT	1.085815e+04	0.70432918
3239	3	IgG	TRUE	TT	1.637935e+04	0.98805599
3240	3	IgG	TRUE	FIM2/3	8.744000e+02	0.30927033
3241	4	IgG	TRUE	DT	6.830000e+01	0.75220264
3242	4	IgG	TRUE	FHA	5.001850e+03	0.91936477
3243	4	IgG	TRUE	OVA	9.850500e+02	0.32544271
3244	4	IgG	TRUE	PRN	6.249050e+03	0.50220401
3245	4	IgG	TRUE	PT	1.223990e+04	0.79395834
3246	4	IgG	TRUE	TT	1.661760e+04	1.00242801
3247	4	IgG	TRUE	FIM2/3	2.383400e+03	0.84299508
3248	5	IgG	TRUE	DT	7.180000e+01	0.79074890
3249	5	IgG	TRUE	FHA	4.651600e+03	0.85498709
3250	5	IgG	TRUE	OVA	1.600500e+02	0.05287763
3251	5	IgG	TRUE	PRN	6.665050e+03	0.53563579
3252	5	IgG	TRUE	PT	1.077790e+04	0.69912365
3253	5	IgG	TRUE	TT	1.688560e+04	1.01859465
3254	5	IgG	TRUE	FIM2/3	1.767150e+03	0.62503095
3255	6	IgG	TRUE	DT	1.030500e+02	1.13491189
3256	6	IgG	TRUE	FHA	6.889350e+03	1.26629661
3257	6	IgG	TRUE	OVA	4.010500e+02	0.13249967
3258	6	IgG	TRUE	PRN	2.516355e+04	2.02226508
3259	6	IgG	TRUE	PT	1.996990e+04	1.29537567
3260	6	IgG	TRUE	TT	2.921610e+04	1.76241076
3261	6	IgG	TRUE	FIM2/3	7.557400e+03	2.67300959
3262	7	IgG	TRUE	DT	1.673000e+02	1.84251101
3263	7	IgG	TRUE	FHA	9.422100e+03	1.73182858
3264	7	IgG	TRUE	OVA	2.998000e+02	0.09904850
3265	7	IgG	TRUE	PRN	3.002580e+04	2.41301911
3266	7	IgG	TRUE	PT	2.234190e+04	1.44923879
3267	7	IgG	TRUE	TT	3.030060e+04	1.82783135
3268	7	IgG	TRUE	FIM2/3	9.951150e+03	3.51966541
3269	8	IgG	TRUE	DT	1.498000e+02	1.64977974
3270	8	IgG	TRUE	FHA	8.438100e+03	1.55096452
3271	8	IgG	TRUE	OVA	4.578000e+02	0.15124884
3272	8	IgG	TRUE	PRN	2.866655e+04	2.30378318

3273	8	IgG	TRUE	PT	1.924890e+04	1.24860699
3274	8	IgG	TRUE	TT	2.985885e+04	1.80118354
3275	8	IgG	TRUE	FIM2/3	8.176400e+03	2.89194638
3276	9	IgG	TRUE	DT	1.433000e+02	1.57819383
3277	9	IgG	TRUE	FHA	8.532850e+03	1.56838004
3278	9	IgG	TRUE	OVA	7.030500e+02	0.23227501
3279	9	IgG	TRUE	PRN	2.728130e+04	2.19245776
3280	9	IgG	TRUE	PT	1.744815e+04	1.13179881
3281	9	IgG	TRUE	TT	2.846135e+04	1.71688177
3282	9	IgG	TRUE	FIM2/3	7.953400e+03	2.81307254
3283	10	IgG	TRUE	DT	1.158000e+02	1.27533040
3284	10	IgG	TRUE	FHA	6.915850e+03	1.27116744
3285	10	IgG	TRUE	OVA	4.135500e+02	0.13662944
3286	10	IgG	TRUE	PRN	2.586705e+04	2.07880176
3287	10	IgG	TRUE	PT	1.472340e+04	0.95505407
3288	10	IgG	TRUE	TT	2.710910e+04	1.63530962
3289	10	IgG	TRUE	FIM2/3	6.031400e+03	2.13327203
3290	1	IgG	TRUE	DT	6.505000e+01	0.71640969
3291	1	IgG	TRUE	FHA	3.418300e+03	0.62830045
3292	1	IgG	TRUE	OVA	3.800050e+03	1.25546782
3293	1	IgG	TRUE	PRN	2.151100e+04	1.72872843
3294	1	IgG	TRUE	PT	8.262550e+03	0.53596194
3295	1	IgG	TRUE	TT	1.689745e+04	1.01930948
3296	1	IgG	TRUE	FIM2/3	6.102850e+03	2.15854349
3297	2	IgG	TRUE	DT	7.280000e+01	0.80176211
3298	2	IgG	TRUE	FHA	4.298550e+03	0.79009475
3299	2	IgG	TRUE	OVA	5.437300e+03	1.79638562
3300	2	IgG	TRUE	PRN	2.394100e+04	1.92401503
3301	2	IgG	TRUE	PT	8.975050e+03	0.58217925
3302	2	IgG	TRUE	TT	1.809170e+04	1.09135055
3303	2	IgG	TRUE	FIM2/3	7.045350e+03	2.49190040
3304	3	IgG	TRUE	DT	6.930000e+01	0.76321586
3305	3	IgG	TRUE	FHA	3.863800e+03	0.71018555
3306	3	IgG	TRUE	OVA	5.061550e+03	1.67224461
3307	3	IgG	TRUE	PRN	2.222150e+04	1.78582766
3308	3	IgG	TRUE	PT	8.036300e+03	0.52128591
3309	3	IgG	TRUE	TT	1.669320e+04	1.00698845
3310	3	IgG	TRUE	FIM2/3	6.249600e+03	2.21044813
3311	4	IgG	TRUE	DT	6.980000e+01	0.76872247
3312	4	IgG	TRUE	FHA	3.923550e+03	0.72116790
3313	4	IgG	TRUE	OVA	5.139800e+03	1.69809700
3314	4	IgG	TRUE	PRN	2.201650e+04	1.76935286
3315	4	IgG	TRUE	PT	8.368550e+03	0.54283778

3316	4	IgG	TRUE	TT	1.703770e+04	1.02776982
3317	4	IgG	TRUE	FIM2/3	6.497600e+03	2.29816433
3318	5	IgG	TRUE	DT	7.680000e+01	0.84581498
3319	5	IgG	TRUE	FHA	3.972550e+03	0.73017434
3320	5	IgG	TRUE	OVA	5.032300e+03	1.66258094
3321	5	IgG	TRUE	PRN	2.208350e+04	1.77473731
3322	5	IgG	TRUE	PT	7.948050e+03	0.51556145
3323	5	IgG	TRUE	TT	1.722170e+04	1.03886930
3324	5	IgG	TRUE	FIM2/3	6.411600e+03	2.26774661
3325	6	IgG	TRUE	DT	1.663000e+02	1.83149780
3326	6	IgG	TRUE	FHA	8.112800e+03	1.49117277
3327	6	IgG	TRUE	OVA	5.278800e+03	1.74402009
3328	6	IgG	TRUE	PRN	2.573375e+04	2.06808912
3329	6	IgG	TRUE	PT	1.565105e+04	1.01522739
3330	6	IgG	TRUE	TT	2.764945e+04	1.66790530
3331	6	IgG	TRUE	FIM2/3	1.328860e+04	4.70010257
3332	7	IgG	TRUE	DT	2.783000e+02	3.06497797
3333	7	IgG	TRUE	FHA	1.510030e+04	2.77550983
3334	7	IgG	TRUE	OVA	5.866800e+03	1.93828466
3335	7	IgG	TRUE	PRN	2.977550e+04	2.39290378
3336	7	IgG	TRUE	PT	2.218880e+04	1.43930775
3337	7	IgG	TRUE	TT	3.174270e+04	1.91482354
3338	7	IgG	TRUE	FIM2/3	1.677510e+04	5.93325788
3339	8	IgG	TRUE	DT	2.415500e+02	2.66024229
3340	8	IgG	TRUE	FHA	1.281430e+04	2.35533172
3341	8	IgG	TRUE	OVA	5.856550e+03	1.93489824
3342	8	IgG	TRUE	PRN	2.889450e+04	2.32210234
3343	8	IgG	TRUE	PT	2.050280e+04	1.32994298
3344	8	IgG	TRUE	TT	3.069870e+04	1.85184604
3345	8	IgG	TRUE	FIM2/3	1.459960e+04	5.16379585
3346	9	IgG	TRUE	DT	1.843000e+02	2.02973568
3347	9	IgG	TRUE	FHA	1.088030e+04	1.99985296
3348	9	IgG	TRUE	OVA	4.842050e+03	1.59972578
3349	9	IgG	TRUE	PRN	2.716550e+04	2.18315151
3350	9	IgG	TRUE	PT	1.715980e+04	1.11309458
3351	9	IgG	TRUE	TT	2.921970e+04	1.76262792
3352	9	IgG	TRUE	FIM2/3	1.213935e+04	4.29361935
3353	1	IgG	TRUE	DT	7.450000e+01	0.82048458
3354	1	IgG	TRUE	FHA	3.792800e+03	0.69713540
3355	1	IgG	TRUE	OVA	1.895000e+02	0.06260737
3356	1	IgG	TRUE	PRN	1.176725e+04	0.94567336
3357	1	IgG	TRUE	PT	9.917050e+03	0.64328341
3358	1	IgG	TRUE	TT	1.207180e+04	0.72821048

3359	1	IgG	TRUE	FIM2/3	6.592550e+03	2.33174760
3360	2	IgG	TRUE	DT	1.000000e+02	1.10132159
3361	2	IgG	TRUE	FHA	4.646550e+03	0.85405887
3362	2	IgG	TRUE	OVA	2.220000e+02	0.07334479
3363	2	IgG	TRUE	PRN	1.607825e+04	1.29212625
3364	2	IgG	TRUE	PT	1.367030e+04	0.88674325
3365	2	IgG	TRUE	TT	1.662730e+04	1.00301315
3366	2	IgG	TRUE	FIM2/3	8.855300e+03	3.13206947
3367	3	IgG	TRUE	DT	1.025000e+02	1.12885463
3368	3	IgG	TRUE	FHA	4.978300e+03	0.91503616
3369	3	IgG	TRUE	OVA	2.047500e+02	0.06764570
3370	3	IgG	TRUE	PRN	1.688550e+04	1.35700078
3371	3	IgG	TRUE	PT	1.395080e+04	0.90493828
3372	3	IgG	TRUE	TT	1.721630e+04	1.03854355
3373	3	IgG	TRUE	FIM2/3	9.765300e+03	3.45393131
3374	4	IgG	TRUE	DT	1.352500e+02	1.48953744
3375	4	IgG	TRUE	FHA	6.365800e+03	1.17006553
3376	4	IgG	TRUE	OVA	2.895000e+02	0.09564557
3377	4	IgG	TRUE	PRN	2.045600e+04	1.64394350
3378	4	IgG	TRUE	PT	1.589905e+04	1.03131426
3379	4	IgG	TRUE	TT	2.026430e+04	1.22240889
3380	4	IgG	TRUE	FIM2/3	1.211655e+04	4.28555512
3381	5	IgG	TRUE	DT	1.265000e+02	1.39317181
3382	5	IgG	TRUE	FHA	5.791800e+03	1.06456149
3383	5	IgG	TRUE	OVA	2.467500e+02	0.08152174
3384	5	IgG	TRUE	PRN	1.908500e+04	1.53376329
3385	5	IgG	TRUE	PT	1.520230e+04	0.98611859
3386	5	IgG	TRUE	TT	1.923930e+04	1.16057754
3387	5	IgG	TRUE	FIM2/3	1.117330e+04	3.95193294
3388	6	IgG	TRUE	DT	3.015000e+02	3.32048458
3389	6	IgG	TRUE	FHA	1.391305e+04	2.55728741
3390	6	IgG	TRUE	OVA	3.177500e+02	0.10497886
3391	6	IgG	TRUE	PRN	2.770500e+04	2.22650835
3392	6	IgG	TRUE	PT	2.126680e+04	1.37950092
3393	6	IgG	TRUE	TT	2.717630e+04	1.63936335
3394	6	IgG	TRUE	FIM2/3	1.438705e+04	5.08861812
3395	7	IgG	TRUE	DT	3.645000e+02	4.01431718
3396	7	IgG	TRUE	FHA	1.678755e+04	3.08563472
3397	7	IgG	TRUE	OVA	3.040000e+02	0.10043610
3398	7	IgG	TRUE	PRN	2.920200e+04	2.34681454
3399	7	IgG	TRUE	PT	2.138080e+04	1.38689569
3400	7	IgG	TRUE	TT	2.758380e+04	1.66394508
3401	7	IgG	TRUE	FIM2/3	1.513355e+04	5.35265094

3402	8	IgG	TRUE	DT	3.142500e+02	3.46090308
3403	8	IgG	TRUE	FHA	1.546005e+04	2.84163366
3404	8	IgG	TRUE	OVA	3.415000e+02	0.11282543
3405	8	IgG	TRUE	PRN	2.872000e+04	2.30807868
3406	8	IgG	TRUE	PT	1.880680e+04	1.21992956
3407	8	IgG	TRUE	TT	2.702705e+04	1.63036010
3408	8	IgG	TRUE	FIM2/3	1.366430e+04	4.83298553
3409	9	IgG	TRUE	DT	2.515000e+02	2.76982379
3410	9	IgG	TRUE	FHA	1.302555e+04	2.39416052
3411	9	IgG	TRUE	OVA	3.462500e+02	0.11439474
3412	9	IgG	TRUE	PRN	2.804500e+04	2.25383240
3413	9	IgG	TRUE	PT	1.820080e+04	1.18062051
3414	9	IgG	TRUE	TT	2.644255e+04	1.59510115
3415	9	IgG	TRUE	FIM2/3	1.322855e+04	4.67886323
3416	10	IgG	TRUE	DT	1.890000e+02	2.08149780
3417	10	IgG	TRUE	FHA	9.663800e+03	1.77625424
3418	10	IgG	TRUE	OVA	2.810000e+02	0.09283732
3419	10	IgG	TRUE	PRN	2.513350e+04	2.01985012
3420	10	IgG	TRUE	PT	1.615230e+04	1.04774168
3421	10	IgG	TRUE	TT	2.369780e+04	1.42952885
3422	10	IgG	TRUE	FIM2/3	1.152780e+04	4.07731758
3423	2	IgG	TRUE	DT	6.500000e+01	0.71585903
3424	2	IgG	TRUE	FHA	2.141550e+03	0.39362748
3425	2	IgG	TRUE	OVA	4.170000e+03	1.37769261
3426	2	IgG	TRUE	PRN	1.213800e+04	0.97546863
3427	2	IgG	TRUE	PT	7.897800e+03	0.51230191
3428	2	IgG	TRUE	TT	1.673605e+04	1.00957330
3429	2	IgG	TRUE	FIM2/3	4.347550e+03	1.53770382
3430	3	IgG	TRUE	DT	6.400000e+01	0.70484581
3431	3	IgG	TRUE	FHA	2.258550e+03	0.41513266
3432	3	IgG	TRUE	OVA	4.524250e+03	1.49473041
3433	3	IgG	TRUE	PRN	1.274850e+04	1.02453137
3434	3	IgG	TRUE	PT	8.406050e+03	0.54527027
3435	3	IgG	TRUE	TT	1.752730e+04	1.05730409
3436	3	IgG	TRUE	FIM2/3	4.611550e+03	1.63107912
3437	4	IgG	TRUE	DT	6.550000e+01	0.72136564
3438	4	IgG	TRUE	FHA	2.611550e+03	0.48001581
3439	4	IgG	TRUE	OVA	5.226000e+03	1.72657592
3440	4	IgG	TRUE	PRN	1.483525e+04	1.19223274
3441	4	IgG	TRUE	PT	9.634050e+03	0.62492621
3442	4	IgG	TRUE	TT	1.938555e+04	1.16939981
3443	4	IgG	TRUE	FIM2/3	5.661550e+03	2.00245818
3444	5	IgG	TRUE	DT	7.600000e+01	0.83700441

3445	5	IgG	TRUE	FHA	2.423300e+03	0.44541453
3446	5	IgG	TRUE	OVA	4.714500e+03	1.55758557
3447	5	IgG	TRUE	PRN	1.299250e+04	1.04414040
3448	5	IgG	TRUE	PT	8.349300e+03	0.54158910
3449	5	IgG	TRUE	TT	1.733530e+04	1.04572202
3450	5	IgG	TRUE	FIM2/3	4.750800e+03	1.68033106
3451	6	IgG	TRUE	DT	1.317500e+02	1.45099119
3452	6	IgG	TRUE	FHA	4.370300e+03	0.80328276
3453	6	IgG	TRUE	OVA	5.116500e+03	1.69039910
3454	6	IgG	TRUE	PRN	2.028650e+04	1.63032166
3455	6	IgG	TRUE	PT	1.661830e+04	1.07796942
3456	6	IgG	TRUE	TT	2.413305e+04	1.45578455
3457	6	IgG	TRUE	FIM2/3	1.161555e+04	4.10835426
3458	7	IgG	TRUE	DT	2.182500e+02	2.40363436
3459	7	IgG	TRUE	FHA	9.260800e+03	1.70218085
3460	7	IgG	TRUE	OVA	4.822000e+03	1.59310163
3461	7	IgG	TRUE	PRN	2.605550e+04	2.09394652
3462	7	IgG	TRUE	PT	2.320330e+04	1.50511472
3463	7	IgG	TRUE	TT	2.662530e+04	1.60612523
3464	7	IgG	TRUE	FIM2/3	1.747080e+04	6.17932303
3465	8	IgG	TRUE	DT	1.807500e+02	1.99063877
3466	8	IgG	TRUE	FHA	8.257050e+03	1.51768663
3467	8	IgG	TRUE	OVA	5.203500e+03	1.71914233
3468	8	IgG	TRUE	PRN	2.547875e+04	2.04759609
3469	8	IgG	TRUE	PT	2.160455e+04	1.40140955
3470	8	IgG	TRUE	TT	2.652330e+04	1.59997225
3471	8	IgG	TRUE	FIM2/3	1.586405e+04	5.61102465
3472	9	IgG	TRUE	DT	1.595000e+02	1.75660793
3473	9	IgG	TRUE	FHA	6.544300e+03	1.20287471
3474	9	IgG	TRUE	OVA	4.937500e+03	1.63126074
3475	9	IgG	TRUE	PRN	2.377500e+04	1.91067446
3476	9	IgG	TRUE	PT	1.991730e+04	1.29196370
3477	9	IgG	TRUE	TT	2.609280e+04	1.57400308
3478	9	IgG	TRUE	FIM2/3	1.380430e+04	4.88250274
3479	10	IgG	TRUE	DT	1.430000e+02	1.57488987
3480	10	IgG	TRUE	FHA	5.727050e+03	1.05266012
3481	10	IgG	TRUE	OVA	5.493750e+03	1.81503568
3482	10	IgG	TRUE	PRN	2.085400e+04	1.67592872
3483	10	IgG	TRUE	PT	1.607405e+04	1.04266588
3484	10	IgG	TRUE	TT	2.428830e+04	1.46514974
3485	10	IgG	TRUE	FIM2/3	1.129630e+04	3.99543734
3486	1	IgG	TRUE	DT	5.380000e+01	0.59251101
3487	1	IgG	TRUE	FHA	2.787050e+03	0.51227358

3488	1	IgG	TRUE	OVA	4.048550e+03	1.33756773
3489	1	IgG	TRUE	PRN	7.578350e+03	0.60903301
3490	1	IgG	TRUE	PT	2.177050e+03	0.14121741
3491	1	IgG	TRUE	TT	9.913650e+03	0.59802381
3492	1	IgG	TRUE	FIM2/3	1.542800e+03	0.54567962
3493	2	IgG	TRUE	DT	4.930000e+01	0.54295154
3494	2	IgG	TRUE	FHA	2.465300e+03	0.45313433
3495	2	IgG	TRUE	OVA	3.992800e+03	1.31914894
3496	2	IgG	TRUE	PRN	6.259350e+03	0.50303176
3497	2	IgG	TRUE	PT	2.207300e+03	0.14317962
3498	2	IgG	TRUE	TT	9.554150e+03	0.57633759
3499	2	IgG	TRUE	FIM2/3	1.445050e+03	0.51110600
3500	3	IgG	TRUE	DT	4.230000e+01	0.46585903
3501	3	IgG	TRUE	FHA	2.040550e+03	0.37506318
3502	3	IgG	TRUE	OVA	3.442050e+03	1.13719109
3503	3	IgG	TRUE	PRN	5.174100e+03	0.41581580
3504	3	IgG	TRUE	PT	1.832800e+03	0.11888715
3505	3	IgG	TRUE	TT	8.324650e+03	0.50217013
3506	3	IgG	TRUE	FIM2/3	1.235800e+03	0.43709546
3507	4	IgG	TRUE	DT	4.530000e+01	0.49889868
3508	4	IgG	TRUE	FHA	2.362300e+03	0.43420242
3509	4	IgG	TRUE	OVA	3.769800e+03	1.24547377
3510	4	IgG	TRUE	PRN	6.028100e+03	0.48444739
3511	4	IgG	TRUE	PT	2.022800e+03	0.13121177
3512	4	IgG	TRUE	TT	9.157150e+03	0.55238925
3513	4	IgG	TRUE	FIM2/3	1.391300e+03	0.49209493
3514	5	IgG	TRUE	DT	1.343000e+02	1.47907489
3515	5	IgG	TRUE	FHA	8.670800e+03	1.59373593
3516	5	IgG	TRUE	OVA	3.620800e+03	1.19624686
3517	5	IgG	TRUE	PRN	1.425535e+04	1.14562916
3518	5	IgG	TRUE	PT	8.601050e+03	0.55791922
3519	5	IgG	TRUE	TT	1.081890e+04	0.65263145
3520	5	IgG	TRUE	FIM2/3	2.351300e+03	0.83164150
3521	6	IgG	TRUE	DT	2.645500e+02	2.91354626
3522	6	IgG	TRUE	FHA	1.295630e+04	2.38143202
3523	6	IgG	TRUE	OVA	4.475800e+03	1.47872340
3524	6	IgG	TRUE	PRN	2.580385e+04	2.07372270
3525	6	IgG	TRUE	PT	2.292705e+04	1.48719537
3526	6	IgG	TRUE	TT	2.414240e+04	1.45634857
3527	6	IgG	TRUE	FIM2/3	9.324050e+03	3.29786369
3528	7	IgG	TRUE	DT	2.148000e+02	2.36563877
3529	7	IgG	TRUE	FHA	1.091605e+04	2.00642398
3530	7	IgG	TRUE	OVA	3.865550e+03	1.27710784

3531	7	IgG	TRUE	PRN	2.786435e+04	2.23931449
3532	7	IgG	TRUE	PT	1.651855e+04	1.07149900
3533	7	IgG	TRUE	TT	2.729915e+04	1.64677406
3534	7	IgG	TRUE	FIM2/3	2.474730e+04	8.75297987
3535	8	IgG	TRUE	DT	1.995500e+02	2.19768722
3536	8	IgG	TRUE	FHA	1.100330e+04	2.02246096
3537	8	IgG	TRUE	OVA	4.727550e+03	1.56189705
3538	8	IgG	TRUE	PRN	2.716860e+04	2.18340064
3539	8	IgG	TRUE	PT	1.696630e+04	1.10054293
3540	8	IgG	TRUE	TT	2.651215e+04	1.59929965
3541	8	IgG	TRUE	FIM2/3	2.445730e+04	8.65040852
3542	9	IgG	TRUE	DT	1.505500e+02	1.65803965
3543	9	IgG	TRUE	FHA	9.444800e+03	1.73600096
3544	9	IgG	TRUE	OVA	4.162300e+03	1.37514867
3545	9	IgG	TRUE	PRN	2.634960e+04	2.11758182
3546	9	IgG	TRUE	PT	1.558130e+04	1.01070296
3547	9	IgG	TRUE	TT	2.644940e+04	1.59551436
3548	9	IgG	TRUE	FIM2/3	2.258705e+04	7.98891168
3549	10	IgG	TRUE	DT	1.103000e+02	1.21475771
3550	10	IgG	TRUE	FHA	7.175800e+03	1.31894753
3551	10	IgG	TRUE	OVA	7.752550e+03	2.56130237
3552	10	IgG	TRUE	PRN	2.433685e+04	1.95582746
3553	10	IgG	TRUE	PT	1.128430e+04	0.73197200
3554	10	IgG	TRUE	TT	2.565890e+04	1.54782881
3555	10	IgG	TRUE	FIM2/3	2.070655e+04	7.32378948
3556	1	IgG	TRUE	DT	9.405000e+01	1.03579295
3557	1	IgG	TRUE	FHA	6.190800e+03	1.13789966
3558	1	IgG	TRUE	OVA	2.429300e+03	0.80259680
3559	1	IgG	TRUE	PRN	2.801360e+04	2.25130894
3560	1	IgG	TRUE	PT	1.672480e+04	1.08487769
3561	1	IgG	TRUE	TT	2.196790e+04	1.32517562
3562	1	IgG	TRUE	FIM2/3	1.105255e+04	3.90922435
3563	2	IgG	TRUE	DT	9.530000e+01	1.04955947
3564	2	IgG	TRUE	FHA	6.374800e+03	1.17171977
3565	2	IgG	TRUE	OVA	2.783550e+03	0.91963460
3566	2	IgG	TRUE	PRN	2.810835e+04	2.25892351
3567	2	IgG	TRUE	PT	1.631055e+04	1.05800679
3568	2	IgG	TRUE	TT	2.194215e+04	1.32362229
3569	2	IgG	TRUE	FIM2/3	1.075255e+04	3.80311605
3570	3	IgG	TRUE	DT	8.730000e+01	0.96145374
3571	3	IgG	TRUE	FHA	5.607550e+03	1.03069543
3572	3	IgG	TRUE	OVA	2.798300e+03	0.92450773
3573	3	IgG	TRUE	PRN	2.847210e+04	2.28815623

3574	3	IgG	TRUE	PT	1.607780e+04	1.04290913
3575	3	IgG	TRUE	TT	2.168990e+04	1.30840575
3576	3	IgG	TRUE	FIM2/3	1.070405e+04	3.78596187
3577	4	IgG	TRUE	DT	9.180000e+01	1.01101322
3578	4	IgG	TRUE	FHA	5.984300e+03	1.09994394
3579	4	IgG	TRUE	OVA	2.806800e+03	0.92731598
3580	4	IgG	TRUE	PRN	2.784510e+04	2.23776746
3581	4	IgG	TRUE	PT	1.562055e+04	1.01324896
3582	4	IgG	TRUE	TT	2.137990e+04	1.28970553
3583	4	IgG	TRUE	FIM2/3	1.019930e+04	3.60743465
3584	5	IgG	TRUE	DT	9.380000e+01	1.03303965
3585	5	IgG	TRUE	FHA	5.731300e+03	1.05344129
3586	5	IgG	TRUE	OVA	2.811300e+03	0.92880270
3587	5	IgG	TRUE	PRN	2.803860e+04	2.25331806
3588	5	IgG	TRUE	PT	1.613430e+04	1.04657408
3589	5	IgG	TRUE	TT	2.172765e+04	1.31068295
3590	5	IgG	TRUE	FIM2/3	1.047505e+04	3.70496587
3591	6	IgG	TRUE	DT	1.943000e+02	2.13986784
3592	6	IgG	TRUE	FHA	8.527300e+03	1.56735992
3593	6	IgG	TRUE	OVA	2.703550e+03	0.89320404
3594	6	IgG	TRUE	PRN	2.842735e+04	2.28455990
3595	6	IgG	TRUE	PT	2.371380e+04	1.53822902
3596	6	IgG	TRUE	TT	2.405065e+04	1.45081391
3597	6	IgG	TRUE	FIM2/3	1.715780e+04	6.06861670
3598	7	IgG	TRUE	DT	2.703000e+02	2.97687225
3599	7	IgG	TRUE	FHA	1.144480e+04	2.10361085
3600	7	IgG	TRUE	OVA	3.419800e+03	1.12984010
3601	7	IgG	TRUE	PRN	2.825910e+04	2.27103851
3602	7	IgG	TRUE	PT	2.593080e+04	1.68203784
3603	7	IgG	TRUE	TT	2.538940e+04	1.53157169
3604	7	IgG	TRUE	FIM2/3	1.912255e+04	6.76353765
3605	8	IgG	TRUE	DT	2.133000e+02	2.34911894
3606	8	IgG	TRUE	FHA	1.004930e+04	1.84711105
3607	8	IgG	TRUE	OVA	2.942800e+03	0.97224792
3608	8	IgG	TRUE	PRN	2.788010e+04	2.24058023
3609	8	IgG	TRUE	PT	2.384430e+04	1.54669408
3610	8	IgG	TRUE	TT	2.414515e+04	1.45651446
3611	8	IgG	TRUE	FIM2/3	1.700730e+04	6.01538570
3612	9	IgG	TRUE	DT	1.633000e+02	1.79845815
3613	9	IgG	TRUE	FHA	8.408050e+03	1.54544118
3614	9	IgG	TRUE	OVA	2.581300e+03	0.85281485
3615	9	IgG	TRUE	PRN	2.864160e+04	2.30177807
3616	9	IgG	TRUE	PT	2.257680e+04	1.46447591

3617	9	IgG	TRUE	TT	2.395190e+04	1.44485699
3618	9	IgG	TRUE	FIM2/3	1.502130e+04	5.31294875
3619	10	IgG	TRUE	DT	1.310500e+02	1.44328194
3620	10	IgG	TRUE	FHA	7.006050e+03	1.28774664
3621	10	IgG	TRUE	OVA	2.870300e+03	0.94829523
3622	10	IgG	TRUE	PRN	2.792310e+04	2.24403592
3623	10	IgG	TRUE	PT	2.039530e+04	1.32296984
3624	10	IgG	TRUE	TT	2.301615e+04	1.38840949
3625	10	IgG	TRUE	FIM2/3	1.343930e+04	4.75340431
3626	1	IgG	TRUE	DT	1.765500e+02	1.94438326
3627	1	IgG	TRUE	FHA	1.097155e+04	2.01662516
3628	1	IgG	TRUE	OVA	5.377300e+03	1.77656271
3629	1	IgG	TRUE	PRN	1.853735e+04	1.48975147
3630	1	IgG	TRUE	PT	1.031180e+04	0.66888942
3631	1	IgG	TRUE	TT	1.272690e+04	0.76772826
3632	1	IgG	TRUE	FIM2/3	2.899800e+03	1.02564284
3633	2	IgG	TRUE	DT	1.535500e+02	1.69107930
3634	2	IgG	TRUE	FHA	9.603300e+03	1.76513404
3635	2	IgG	TRUE	OVA	4.344800e+03	1.43544337
3636	2	IgG	TRUE	PRN	1.648460e+04	1.32478251
3637	2	IgG	TRUE	PT	9.177300e+03	0.59529848
3638	2	IgG	TRUE	TT	1.159240e+04	0.69929150
3639	2	IgG	TRUE	FIM2/3	2.595300e+03	0.91794291
3640	3	IgG	TRUE	DT	1.733000e+02	1.90859031
3641	3	IgG	TRUE	FHA	1.063230e+04	1.95426933
3642	3	IgG	TRUE	OVA	4.800300e+03	1.58593234
3643	3	IgG	TRUE	PRN	1.777010e+04	1.42809154
3644	3	IgG	TRUE	PT	1.034955e+04	0.67133813
3645	3	IgG	TRUE	TT	1.285690e+04	0.77557028
3646	3	IgG	TRUE	FIM2/3	2.827300e+03	1.00000000
3647	4	IgG	TRUE	DT	1.733000e+02	1.90859031
3648	4	IgG	TRUE	FHA	1.032655e+04	1.89807097
3649	4	IgG	TRUE	OVA	4.728800e+03	1.56231003
3650	4	IgG	TRUE	PRN	1.732160e+04	1.39204790
3651	4	IgG	TRUE	PT	1.024030e+04	0.66425147
3652	4	IgG	TRUE	TT	1.273040e+04	0.76793939
3653	4	IgG	TRUE	FIM2/3	2.864800e+03	1.01326354
3654	5	IgG	TRUE	DT	1.600500e+02	1.76266520
3655	5	IgG	TRUE	FHA	1.039730e+04	1.91107517
3656	5	IgG	TRUE	OVA	4.646800e+03	1.53521871
3657	5	IgG	TRUE	PRN	1.702585e+04	1.36827999
3658	5	IgG	TRUE	PT	9.262550e+03	0.60082834
3659	5	IgG	TRUE	TT	1.206490e+04	0.72779425

3660	5	IgG	TRUE	FIM2/3	2.722550e+03	0.96295052
3661	6	IgG	TRUE	DT	2.730500e+02	3.00715859
3662	6	IgG	TRUE	FHA	1.340080e+04	2.46313332
3663	6	IgG	TRUE	OVA	4.738300e+03	1.56544866
3664	6	IgG	TRUE	PRN	2.579210e+04	2.07277841
3665	6	IgG	TRUE	PT	2.313880e+04	1.50093083
3666	6	IgG	TRUE	TT	2.420815e+04	1.46031483
3667	6	IgG	TRUE	FIM2/3	9.551300e+03	3.37824072
3668	7	IgG	TRUE	DT	3.328000e+02	3.66519824
3669	7	IgG	TRUE	FHA	1.502955e+04	2.76250563
3670	7	IgG	TRUE	OVA	5.913550e+03	1.95373001
3671	7	IgG	TRUE	PRN	2.666010e+04	2.14253511
3672	7	IgG	TRUE	PT	2.423505e+04	1.57204063
3673	7	IgG	TRUE	TT	2.492090e+04	1.50331024
3674	7	IgG	TRUE	FIM2/3	1.203405e+04	4.25637534
3675	8	IgG	TRUE	DT	2.845500e+02	3.13381057
3676	8	IgG	TRUE	FHA	1.412280e+04	2.59584049
3677	8	IgG	TRUE	OVA	5.953050e+03	1.96678010
3678	8	IgG	TRUE	PRN	2.624110e+04	2.10886223
3679	8	IgG	TRUE	PT	2.320355e+04	1.50513093
3680	8	IgG	TRUE	TT	2.467515e+04	1.48848580
3681	8	IgG	TRUE	FIM2/3	1.229330e+04	4.34807060
3682	9	IgG	TRUE	DT	2.365500e+02	2.60517621
3683	9	IgG	TRUE	FHA	1.214980e+04	2.23319334
3684	9	IgG	TRUE	OVA	5.550800e+03	1.83388397
3685	9	IgG	TRUE	PRN	2.549460e+04	2.04886987
3686	9	IgG	TRUE	PT	2.031980e+04	1.31807243
3687	9	IgG	TRUE	TT	2.356190e+04	1.42133091
3688	9	IgG	TRUE	FIM2/3	1.148580e+04	4.06246242
3689	10	IgG	TRUE	DT	1.923000e+02	2.11784141
3690	10	IgG	TRUE	FHA	1.064580e+04	1.95675070
3691	10	IgG	TRUE	OVA	4.766300e+03	1.57469935
3692	10	IgG	TRUE	PRN	2.462110e+04	1.97867117
3693	10	IgG	TRUE	PT	1.500830e+04	0.97353451
3694	10	IgG	TRUE	TT	2.121390e+04	1.27969187
3695	10	IgG	TRUE	FIM2/3	9.909800e+03	3.50504014
3696	1	IgG	TRUE	DT	2.840500e+02	3.12830396
3697	1	IgG	TRUE	FHA	8.426300e+03	1.54879562
3698	1	IgG	TRUE	OVA	3.144800e+03	1.03898507
3699	1	IgG	TRUE	PRN	5.621100e+03	0.45173889
3700	1	IgG	TRUE	PT	8.003550e+03	0.51916154
3701	1	IgG	TRUE	TT	1.593490e+04	0.96124531
3702	1	IgG	TRUE	FIM2/3	1.386050e+03	0.49023804

3703	2	IgG	TRUE	DT	2.603000e+02	2.86674009
3704	2	IgG	TRUE	FHA	7.808800e+03	1.43529606
3705	2	IgG	TRUE	OVA	2.831550e+03	0.93549293
3706	2	IgG	TRUE	PRN	5.380600e+03	0.43241115
3707	2	IgG	TRUE	PT	6.749300e+03	0.43780285
3708	2	IgG	TRUE	TT	1.425140e+04	0.85969108
3709	2	IgG	TRUE	FIM2/3	1.199800e+03	0.42436247
3710	3	IgG	TRUE	DT	2.683000e+02	2.95484581
3711	3	IgG	TRUE	FHA	8.356550e+03	1.53597522
3712	3	IgG	TRUE	OVA	3.026800e+03	1.00000000
3713	3	IgG	TRUE	PRN	6.501600e+03	0.52250015
3714	3	IgG	TRUE	PT	7.057800e+03	0.45781413
3715	3	IgG	TRUE	TT	1.468840e+04	0.88605235
3716	3	IgG	TRUE	FIM2/3	1.324300e+03	0.46839741
3717	4	IgG	TRUE	DT	2.838000e+02	3.12555066
3718	4	IgG	TRUE	FHA	8.231800e+03	1.51304556
3719	4	IgG	TRUE	OVA	3.400550e+03	1.12348024
3720	4	IgG	TRUE	PRN	6.050100e+03	0.48621542
3721	4	IgG	TRUE	PT	8.016300e+03	0.51998858
3722	4	IgG	TRUE	TT	1.587040e+04	0.95735446
3723	4	IgG	TRUE	FIM2/3	1.482300e+03	0.52428112
3724	5	IgG	TRUE	DT	2.655500e+02	2.92455947
3725	5	IgG	TRUE	FHA	8.252300e+03	1.51681356
3726	5	IgG	TRUE	OVA	2.930800e+03	0.96828334
3727	5	IgG	TRUE	PRN	5.866600e+03	0.47146847
3728	5	IgG	TRUE	PT	7.207300e+03	0.46751166
3729	5	IgG	TRUE	TT	1.478215e+04	0.89170766
3730	5	IgG	TRUE	FIM2/3	1.673050e+03	0.59174831
3731	6	IgG	TRUE	DT	2.868000e+02	3.15859031
3732	6	IgG	TRUE	FHA	9.035800e+03	1.66082473
3733	6	IgG	TRUE	OVA	3.103550e+03	1.02535681
3734	6	IgG	TRUE	PRN	1.376560e+04	1.10627047
3735	6	IgG	TRUE	PT	1.818680e+04	1.17971238
3736	6	IgG	TRUE	TT	2.342390e+04	1.41300630
3737	6	IgG	TRUE	FIM2/3	1.658405e+04	5.86568458
3738	7	IgG	TRUE	DT	3.223000e+02	3.54955947
3739	7	IgG	TRUE	FHA	1.010080e+04	1.85657700
3740	7	IgG	TRUE	OVA	3.851050e+03	1.27231730
3741	7	IgG	TRUE	PRN	1.946860e+04	1.56459124
3742	7	IgG	TRUE	PT	2.275155e+04	1.47581132
3743	7	IgG	TRUE	TT	2.496890e+04	1.50620576
3744	7	IgG	TRUE	FIM2/3	2.061355e+04	7.29089591
3745	8	IgG	TRUE	DT	3.048000e+02	3.35682819

3746	8	IgG	TRUE	FHA	9.546300e+03	1.75465716
3747	8	IgG	TRUE	OVA	3.551050e+03	1.17320272
3748	8	IgG	TRUE	PRN	1.773060e+04	1.42491712
3749	8	IgG	TRUE	PT	2.201405e+04	1.42797234
3750	8	IgG	TRUE	TT	2.484015e+04	1.49843914
3751	8	IgG	TRUE	FIM2/3	1.986630e+04	7.02659781
3752	9	IgG	TRUE	DT	2.853000e+02	3.14207048
3753	9	IgG	TRUE	FHA	8.795800e+03	1.61671155
3754	9	IgG	TRUE	OVA	2.987300e+03	0.98694991
3755	9	IgG	TRUE	PRN	1.457535e+04	1.17134591
3756	9	IgG	TRUE	PT	1.964130e+04	1.27406057
3757	9	IgG	TRUE	TT	2.458340e+04	1.48295114
3758	9	IgG	TRUE	FIM2/3	1.777180e+04	6.28578502
3759	10	IgG	TRUE	DT	2.765500e+02	3.04570485
3760	10	IgG	TRUE	FHA	8.600300e+03	1.58077768
3761	10	IgG	TRUE	OVA	3.459300e+03	1.14289018
3762	10	IgG	TRUE	PRN	1.166860e+04	0.93774536
3763	10	IgG	TRUE	PT	1.684830e+04	1.09288870
3764	10	IgG	TRUE	TT	2.472340e+04	1.49139639
3765	10	IgG	TRUE	FIM2/3	1.535805e+04	5.43205532
3766	1	IgG	TRUE	DT	8.580000e+01	0.94493392
3767	1	IgG	TRUE	FHA	6.345800e+03	1.16638943
3768	1	IgG	TRUE	OVA	8.856500e+02	0.29260275
3769	1	IgG	TRUE	PRN	1.650665e+04	1.32655456
3770	1	IgG	TRUE	PT	1.864580e+04	1.20948606
3771	1	IgG	TRUE	TT	9.258250e+03	0.55848794
3772	1	IgG	TRUE	FIM2/3	7.590800e+03	2.68482298
3773	2	IgG	TRUE	DT	9.230000e+01	1.01651982
3774	2	IgG	TRUE	FHA	6.521800e+03	1.19873910
3775	2	IgG	TRUE	OVA	9.029000e+02	0.29830184
3776	2	IgG	TRUE	PRN	1.711615e+04	1.37553694
3777	2	IgG	TRUE	PT	1.980530e+04	1.28469866
3778	2	IgG	TRUE	TT	9.987250e+03	0.60246360
3779	2	IgG	TRUE	FIM2/3	8.063550e+03	2.85203197
3780	3	IgG	TRUE	DT	9.230000e+01	1.01651982
3781	3	IgG	TRUE	FHA	6.487300e+03	1.19239783
3782	3	IgG	TRUE	OVA	9.746500e+02	0.32200674
3783	3	IgG	TRUE	PRN	1.740315e+04	1.39860165
3784	3	IgG	TRUE	PT	1.927480e+04	1.25028703
3785	3	IgG	TRUE	TT	1.025725e+04	0.61875089
3786	3	IgG	TRUE	FIM2/3	8.128300e+03	2.87493368
3787	4	IgG	TRUE	DT	9.030000e+01	0.99449339
3788	4	IgG	TRUE	FHA	6.379550e+03	1.17259284

3789	4	IgG	TRUE	OVA	8.894000e+02	0.29384168
3790	4	IgG	TRUE	PRN	1.734990e+04	1.39432222
3791	4	IgG	TRUE	PT	1.997180e+04	1.29549892
3792	4	IgG	TRUE	TT	1.002650e+04	0.60483129
3793	4	IgG	TRUE	FIM2/3	7.947300e+03	2.81091501
3794	5	IgG	TRUE	DT	1.075500e+02	1.18447137
3795	5	IgG	TRUE	FHA	6.364300e+03	1.16978982
3796	5	IgG	TRUE	OVA	4.303400e+03	1.42176556
3797	5	IgG	TRUE	PRN	7.445650e+03	0.59836859
3798	5	IgG	TRUE	PT	2.530330e+04	1.64133417
3799	5	IgG	TRUE	TT	1.972100e+04	1.18963526
3800	5	IgG	TRUE	FIM2/3	4.783000e+02	0.16917200
3801	6	IgG	TRUE	DT	1.163000e+02	1.28083700
3802	6	IgG	TRUE	FHA	7.496050e+03	1.37781107
3803	6	IgG	TRUE	OVA	9.149000e+02	0.30226642
3804	6	IgG	TRUE	PRN	2.685940e+04	2.15855183
3805	6	IgG	TRUE	PT	2.354380e+04	1.52720173
3806	6	IgG	TRUE	TT	2.695900e+04	1.62625510
3807	6	IgG	TRUE	FIM2/3	1.402830e+04	4.96173027
3808	7	IgG	TRUE	DT	1.628000e+02	1.79295154
3809	7	IgG	TRUE	FHA	9.877800e+03	1.81558850
3810	7	IgG	TRUE	OVA	9.946500e+02	0.32861438
3811	7	IgG	TRUE	PRN	2.920215e+04	2.34682659
3812	7	IgG	TRUE	PT	2.571055e+04	1.66775102
3813	7	IgG	TRUE	TT	2.804075e+04	1.69150980
3814	7	IgG	TRUE	FIM2/3	1.634680e+04	5.78177059
3815	8	IgG	TRUE	DT	1.433000e+02	1.57819383
3816	8	IgG	TRUE	FHA	9.369800e+03	1.72221558
3817	8	IgG	TRUE	OVA	1.010150e+03	0.33373530
3818	8	IgG	TRUE	PRN	2.925690e+04	2.35122657
3819	8	IgG	TRUE	PT	2.551480e+04	1.65505342
3820	8	IgG	TRUE	TT	2.820800e+04	1.70159887
3821	8	IgG	TRUE	FIM2/3	1.501580e+04	5.31100343
3822	9	IgG	TRUE	DT	1.293000e+02	1.42400881
3823	9	IgG	TRUE	FHA	8.732800e+03	1.60513183
3824	9	IgG	TRUE	OVA	9.606500e+02	0.31738139
3825	9	IgG	TRUE	PRN	2.881240e+04	2.31550439
3826	9	IgG	TRUE	PT	2.386180e+04	1.54782925
3827	9	IgG	TRUE	TT	2.766000e+04	1.66854172
3828	9	IgG	TRUE	FIM2/3	1.406630e+04	4.97517066
3829	10	IgG	TRUE	DT	1.073000e+02	1.18171806
3830	10	IgG	TRUE	FHA	7.924050e+03	1.45647958
3831	10	IgG	TRUE	OVA	8.674000e+02	0.28657328

3832	10	IgG	TRUE	PRN	2.808215e+04	2.25681795
3833	10	IgG	TRUE	PT	2.125980e+04	1.37904685
3834	10	IgG	TRUE	TT	2.637425e+04	1.59098107
3835	10	IgG	TRUE	FIM2/3	1.200905e+04	4.24753298
3836	1	IgG	TRUE	DT	8.530000e+01	0.93942731
3837	1	IgG	TRUE	FHA	5.198800e+03	0.95556515
3838	1	IgG	TRUE	OVA	3.243400e+03	1.07156072
3839	1	IgG	TRUE	PRN	4.307400e+03	0.34616358
3840	1	IgG	TRUE	PT	2.386280e+04	1.54789411
3841	1	IgG	TRUE	TT	1.604175e+04	0.96769086
3842	1	IgG	TRUE	FIM2/3	2.500500e+02	0.08844127
3843	1	IgG	TRUE	DT	8.530000e+01	0.93942731
3844	1	IgG	TRUE	FHA	5.198800e+03	0.95556515
3845	1	IgG	TRUE	OVA	3.243400e+03	1.07156072
3846	1	IgG	TRUE	PRN	4.307400e+03	0.34616358
3847	1	IgG	TRUE	PT	2.386280e+04	1.54789411
3848	1	IgG	TRUE	TT	1.604175e+04	0.96769086
3849	1	IgG	TRUE	FIM2/3	2.500500e+02	0.08844127
3850	2	IgG	TRUE	DT	9.605000e+01	1.05781938
3851	2	IgG	TRUE	FHA	5.484050e+03	1.00799552
3852	2	IgG	TRUE	OVA	3.568650e+03	1.17901744
3853	2	IgG	TRUE	PRN	4.591650e+03	0.36900729
3854	2	IgG	TRUE	PT	2.484855e+04	1.61183617
3855	2	IgG	TRUE	TT	1.735600e+04	1.04697072
3856	2	IgG	TRUE	FIM2/3	1.225500e+02	0.04334524
3857	3	IgG	TRUE	DT	1.025500e+02	1.12940529
3858	3	IgG	TRUE	FHA	5.296300e+03	0.97348614
3859	3	IgG	TRUE	OVA	3.529400e+03	1.16604995
3860	3	IgG	TRUE	PRN	4.871400e+03	0.39148936
3861	3	IgG	TRUE	PT	2.557980e+04	1.65926973
3862	3	IgG	TRUE	TT	1.827500e+04	1.10240780
3863	3	IgG	TRUE	FIM2/3	1.195500e+02	0.04228416
3864	4	IgG	TRUE	DT	8.830000e+01	0.97246696
3865	4	IgG	TRUE	FHA	5.348300e+03	0.98304399
3866	4	IgG	TRUE	OVA	3.160650e+03	1.04422162
3867	4	IgG	TRUE	PRN	4.928400e+03	0.39607016
3868	4	IgG	TRUE	PT	2.414255e+04	1.56604049
3869	4	IgG	TRUE	TT	1.694400e+04	1.02211753
3870	4	IgG	TRUE	FIM2/3	2.653000e+02	0.09383511
3871	5	IgG	TRUE	DT	1.028000e+02	1.13215859
3872	5	IgG	TRUE	FHA	6.526550e+03	1.19961217
3873	5	IgG	TRUE	OVA	9.481500e+02	0.31325162
3874	5	IgG	TRUE	PRN	1.800740e+04	1.44716212

3875	5	IgG	TRUE	PT	2.047330e+04	1.32802942
3876	5	IgG	TRUE	TT	1.101150e+04	0.66424971
3877	5	IgG	TRUE	FIM2/3	8.395550e+03	2.96945849
3878	6	IgG	TRUE	DT	1.765500e+02	1.94438326
3879	6	IgG	TRUE	FHA	9.845050e+03	1.80956889
3880	6	IgG	TRUE	OVA	3.377400e+03	1.11583190
3881	6	IgG	TRUE	PRN	1.615165e+04	1.29802503
3882	6	IgG	TRUE	PT	2.674080e+04	1.73457963
3883	6	IgG	TRUE	TT	2.723225e+04	1.64273844
3884	6	IgG	TRUE	FIM2/3	1.028300e+03	0.36370389
3885	7	IgG	TRUE	DT	3.070500e+02	3.38160793
3886	7	IgG	TRUE	FHA	1.555980e+04	2.85996820
3887	7	IgG	TRUE	OVA	3.159150e+03	1.04372605
3888	7	IgG	TRUE	PRN	2.721140e+04	2.18684025
3889	7	IgG	TRUE	PT	2.952430e+04	1.91513528
3890	7	IgG	TRUE	TT	2.823625e+04	1.70330300
3891	7	IgG	TRUE	FIM2/3	2.815300e+03	0.99575567
3892	8	IgG	TRUE	DT	2.583000e+02	2.84471366
3893	8	IgG	TRUE	FHA	1.412180e+04	2.59565669
3894	8	IgG	TRUE	OVA	3.270900e+03	1.08064623
3895	8	IgG	TRUE	PRN	2.646140e+04	2.12656661
3896	8	IgG	TRUE	PT	2.902930e+04	1.88302641
3897	8	IgG	TRUE	TT	2.801350e+04	1.68986599
3898	8	IgG	TRUE	FIM2/3	1.661050e+03	0.58750398
3899	9	IgG	TRUE	DT	2.135500e+02	2.35187225
3900	9	IgG	TRUE	FHA	1.277380e+04	2.34788762
3901	9	IgG	TRUE	OVA	3.132400e+03	1.03488833
3902	9	IgG	TRUE	PRN	2.473565e+04	1.98787696
3903	9	IgG	TRUE	PT	2.764730e+04	1.79338103
3904	9	IgG	TRUE	TT	2.790025e+04	1.68303438
3905	9	IgG	TRUE	FIM2/3	1.142550e+03	0.40411347
3906	10	IgG	TRUE	DT	1.828000e+02	2.01321586
3907	10	IgG	TRUE	FHA	1.103030e+04	2.02742370
3908	10	IgG	TRUE	OVA	3.555900e+03	1.17480507
3909	10	IgG	TRUE	PRN	2.129040e+04	1.71099994
3910	10	IgG	TRUE	PT	2.611730e+04	1.69413543
3911	10	IgG	TRUE	TT	2.611800e+04	1.57552323
3912	10	IgG	TRUE	FIM2/3	7.000500e+02	0.24760372
3913	1	IgG	TRUE	DT	7.880000e+01	0.86784141
3914	1	IgG	TRUE	FHA	5.666800e+03	1.04158587
3915	1	IgG	TRUE	OVA	2.549000e+02	0.08421435
3916	1	IgG	TRUE	PRN	1.024900e+03	0.08236594
3917	1	IgG	TRUE	PT	8.174550e+03	0.53025369

3918	1	IgG	TRUE	TT	1.252100e+04	0.75530769
3919	1	IgG	TRUE	FIM2/3	1.832550e+03	0.64816256
3920	2	IgG	TRUE	DT	8.630000e+01	0.95044053
3921	2	IgG	TRUE	FHA	6.049800e+03	1.11198316
3922	2	IgG	TRUE	OVA	2.249000e+02	0.07430289
3923	2	IgG	TRUE	PRN	1.083400e+03	0.08706729
3924	2	IgG	TRUE	PT	5.908800e+03	0.38328263
3925	2	IgG	TRUE	TT	1.400650e+04	0.84491792
3926	2	IgG	TRUE	FIM2/3	1.910050e+03	0.67557387
3927	3	IgG	TRUE	DT	8.130000e+01	0.89537445
3928	3	IgG	TRUE	FHA	5.940300e+03	1.09185652
3929	3	IgG	TRUE	OVA	1.926500e+02	0.06364808
3930	3	IgG	TRUE	PRN	1.075400e+03	0.08642437
3931	3	IgG	TRUE	PT	5.513550e+03	0.35764418
3932	3	IgG	TRUE	TT	1.358175e+04	0.81929561
3933	3	IgG	TRUE	FIM2/3	1.927550e+03	0.68176352
3934	4	IgG	TRUE	DT	6.055000e+01	0.66685022
3935	4	IgG	TRUE	FHA	4.061050e+03	0.74644108
3936	4	IgG	TRUE	OVA	1.304000e+02	0.04308180
3937	4	IgG	TRUE	PRN	8.519000e+02	0.06846282
3938	4	IgG	TRUE	PT	4.959300e+03	0.32169198
3939	4	IgG	TRUE	TT	1.007075e+04	0.60750060
3940	4	IgG	TRUE	FIM2/3	1.372800e+03	0.48555159
3941	5	IgG	TRUE	DT	7.480000e+01	0.82378855
3942	5	IgG	TRUE	FHA	5.193550e+03	0.95460018
3943	5	IgG	TRUE	OVA	1.409000e+02	0.04655081
3944	5	IgG	TRUE	PRN	1.183900e+03	0.09514395
3945	5	IgG	TRUE	PT	4.148050e+03	0.26906910
3946	5	IgG	TRUE	TT	1.224100e+04	0.73841718
3947	5	IgG	TRUE	FIM2/3	1.792050e+03	0.63383794
3948	6	IgG	TRUE	DT	1.498000e+02	1.64977974
3949	6	IgG	TRUE	FHA	9.052550e+03	1.66390347
3950	6	IgG	TRUE	OVA	2.354000e+02	0.07777190
3951	6	IgG	TRUE	PRN	5.081400e+03	0.40836598
3952	6	IgG	TRUE	PT	8.827050e+03	0.57257902
3953	6	IgG	TRUE	TT	2.673450e+04	1.61271253
3954	6	IgG	TRUE	FIM2/3	9.967550e+03	3.52546599
3955	7	IgG	TRUE	DT	1.843000e+02	2.02973568
3956	7	IgG	TRUE	FHA	1.087280e+04	1.99847442
3957	7	IgG	TRUE	OVA	2.194000e+02	0.07248579
3958	7	IgG	TRUE	PRN	8.878150e+03	0.71349125
3959	7	IgG	TRUE	PT	1.140355e+04	0.73970732
3960	7	IgG	TRUE	TT	2.816150e+04	1.69879384

3961	7	IgG	TRUE	FIM2/3	1.583830e+04	5.60191702
3962	8	IgG	TRUE	DT	1.938000e+02	2.13436123
3963	8	IgG	TRUE	FHA	1.152255e+04	2.11790168
3964	8	IgG	TRUE	OVA	1.839000e+02	0.06075724
3965	8	IgG	TRUE	PRN	6.670150e+03	0.53604565
3966	8	IgG	TRUE	PT	9.686300e+03	0.62831548
3967	8	IgG	TRUE	TT	2.809075e+04	1.69452596
3968	8	IgG	TRUE	FIM2/3	1.511605e+04	5.34646129
3969	9	IgG	TRUE	DT	1.503000e+02	1.65528634
3970	9	IgG	TRUE	FHA	9.092300e+03	1.67120971
3971	9	IgG	TRUE	OVA	1.279000e+02	0.04225585
3972	9	IgG	TRUE	PRN	2.835900e+03	0.22790670
3973	9	IgG	TRUE	PT	5.655800e+03	0.36687143
3974	9	IgG	TRUE	TT	2.776675e+04	1.67498122
3975	9	IgG	TRUE	FIM2/3	1.111805e+04	3.93239133
3976	10	IgG	TRUE	DT	1.600500e+02	1.76266520
3977	10	IgG	TRUE	FHA	1.041730e+04	1.91475127
3978	10	IgG	TRUE	OVA	1.679000e+02	0.05547112
3979	10	IgG	TRUE	PRN	2.647150e+03	0.21273783
3980	10	IgG	TRUE	PT	5.546800e+03	0.35980099
3981	10	IgG	TRUE	TT	2.688025e+04	1.62150464
3982	10	IgG	TRUE	FIM2/3	1.098530e+04	3.88543840
3983	1	IgG	TRUE	DT	1.203000e+02	1.32488987
3984	1	IgG	TRUE	FHA	7.013300e+03	1.28907923
3985	1	IgG	TRUE	OVA	5.490900e+03	1.81409409
3986	1	IgG	TRUE	PRN	6.703900e+03	0.53875796
3987	1	IgG	TRUE	PT	2.754455e+04	1.78671601
3988	1	IgG	TRUE	TT	2.227225e+04	1.34353500
3989	1	IgG	TRUE	FIM2/3	1.297380e+04	4.58875959
3990	2	IgG	TRUE	DT	9.330000e+01	1.02753304
3991	2	IgG	TRUE	FHA	6.147550e+03	1.12995010
3992	2	IgG	TRUE	OVA	4.479400e+03	1.47991278
3993	2	IgG	TRUE	PRN	5.624400e+03	0.45200410
3994	2	IgG	TRUE	PT	2.671980e+04	1.73321744
3995	2	IgG	TRUE	TT	2.046375e+04	1.23444037
3996	2	IgG	TRUE	FIM2/3	1.147330e+04	4.05804124
3997	3	IgG	TRUE	DT	1.125500e+02	1.23953744
3998	3	IgG	TRUE	FHA	6.660050e+03	1.22415013
3999	3	IgG	TRUE	OVA	4.851400e+03	1.60281485
4000	3	IgG	TRUE	PRN	6.631650e+03	0.53295160
4001	3	IgG	TRUE	PT	2.675530e+04	1.73552020
4002	3	IgG	TRUE	TT	2.208625e+04	1.33231488
4003	3	IgG	TRUE	FIM2/3	1.226705e+04	4.33878612

4004	4	IgG	TRUE	DT	1.043000e+02	1.14867841
4005	4	IgG	TRUE	FHA	6.786800e+03	1.24744741
4006	4	IgG	TRUE	OVA	4.633900e+03	1.53095679
4007	4	IgG	TRUE	PRN	7.779900e+03	0.62523055
4008	4	IgG	TRUE	PT	2.640430e+04	1.71275209
4009	4	IgG	TRUE	TT	2.244800e+04	1.35413682
4010	4	IgG	TRUE	FIM2/3	1.286680e+04	4.55091430
4011	5	IgG	TRUE	DT	1.248000e+02	1.37444934
4012	5	IgG	TRUE	FHA	7.620050e+03	1.40060288
4013	5	IgG	TRUE	OVA	5.074400e+03	1.67649002
4014	5	IgG	TRUE	PRN	1.119215e+04	0.89945553
4015	5	IgG	TRUE	PT	2.662430e+04	1.72702270
4016	5	IgG	TRUE	TT	2.438875e+04	1.47120921
4017	5	IgG	TRUE	FIM2/3	1.329005e+04	4.70061543
4018	6	IgG	TRUE	DT	2.968000e+02	3.26872247
4019	6	IgG	TRUE	FHA	1.219830e+04	2.24210788
4020	6	IgG	TRUE	OVA	4.679900e+03	1.54615435
4021	6	IgG	TRUE	PRN	2.786040e+04	2.23899705
4022	6	IgG	TRUE	PT	2.719130e+04	1.76380195
4023	6	IgG	TRUE	TT	2.771125e+04	1.67163328
4024	6	IgG	TRUE	FIM2/3	1.961880e+04	6.93905847
4025	7	IgG	TRUE	DT	2.071500e+02	2.28138767
4026	7	IgG	TRUE	FHA	1.057755e+04	1.94420601
4027	7	IgG	TRUE	OVA	2.701950e+03	0.89267543
4028	7	IgG	TRUE	PRN	1.435745e+04	1.15383441
4029	7	IgG	TRUE	PT	1.386340e+04	0.89926896
4030	7	IgG	TRUE	TT	1.366350e+04	0.82422703
4031	7	IgG	TRUE	FIM2/3	1.135290e+04	4.01545644
4032	8	IgG	TRUE	DT	2.495500e+02	2.74834802
4033	8	IgG	TRUE	FHA	1.204380e+04	2.21371001
4034	8	IgG	TRUE	OVA	4.172900e+03	1.37865072
4035	8	IgG	TRUE	PRN	2.742140e+04	2.20371687
4036	8	IgG	TRUE	PT	2.662605e+04	1.72713621
4037	8	IgG	TRUE	TT	2.732100e+04	1.64809213
4038	8	IgG	TRUE	FIM2/3	1.917780e+04	6.78307926
4039	9	IgG	TRUE	DT	2.138000e+02	2.35462555
4040	9	IgG	TRUE	FHA	1.010230e+04	1.85685271
4041	9	IgG	TRUE	OVA	4.682900e+03	1.54714550
4042	9	IgG	TRUE	PRN	2.563915e+04	2.06048661
4043	9	IgG	TRUE	PT	2.637680e+04	1.71096826
4044	9	IgG	TRUE	TT	2.677550e+04	1.61518578
4045	9	IgG	TRUE	FIM2/3	1.728555e+04	6.11380115
4046	10	IgG	TRUE	DT	1.775500e+02	1.95539648

4047	10	IgG	TRUE	FHA	8.965550e+03	1.64791244
4048	10	IgG	TRUE	OVA	5.705900e+03	1.88512621
4049	10	IgG	TRUE	PRN	2.339640e+04	1.88024833
4050	10	IgG	TRUE	PT	2.593405e+04	1.68224866
4051	10	IgG	TRUE	TT	2.605950e+04	1.57199432
4052	10	IgG	TRUE	FIM2/3	1.669755e+04	5.90582888
4053	1	IgG	TRUE	DT	8.580000e+01	0.94493392
4054	1	IgG	TRUE	FHA	5.440550e+03	1.00000000
4055	1	IgG	TRUE	OVA	2.958000e+02	0.09772697
4056	1	IgG	TRUE	PRN	1.398725e+04	1.12408334
4057	1	IgG	TRUE	PT	2.539205e+04	1.64709107
4058	1	IgG	TRUE	TT	1.526220e+04	0.92066585
4059	1	IgG	TRUE	FIM2/3	4.870850e+03	1.72279206
4060	2	IgG	TRUE	DT	9.180000e+01	1.01101322
4061	2	IgG	TRUE	FHA	5.589300e+03	1.02734099
4062	2	IgG	TRUE	OVA	3.248000e+02	0.10730805
4063	2	IgG	TRUE	PRN	1.472925e+04	1.18371406
4064	2	IgG	TRUE	PT	2.735180e+04	1.77421301
4065	2	IgG	TRUE	TT	1.662645e+04	1.00296187
4066	2	IgG	TRUE	FIM2/3	5.202100e+03	1.83995331
4067	3	IgG	TRUE	DT	9.080000e+01	1.00000000
4068	3	IgG	TRUE	FHA	5.373800e+03	0.98773102
4069	3	IgG	TRUE	OVA	2.383000e+02	0.07873001
4070	3	IgG	TRUE	PRN	1.383350e+04	1.11172724
4071	3	IgG	TRUE	PT	2.587230e+04	1.67824316
4072	3	IgG	TRUE	TT	1.581495e+04	0.95400954
4073	3	IgG	TRUE	FIM2/3	5.076100e+03	1.79538783
4074	4	IgG	TRUE	DT	1.113000e+02	1.22577093
4075	4	IgG	TRUE	FHA	8.869050e+03	1.63017526
4076	4	IgG	TRUE	OVA	3.968000e+02	0.13109555
4077	4	IgG	TRUE	PRN	2.082675e+04	1.67373877
4078	4	IgG	TRUE	PT	2.893630e+04	1.87699383
4079	4	IgG	TRUE	TT	2.197570e+04	1.32564614
4080	4	IgG	TRUE	FIM2/3	8.052100e+03	2.84798217
4081	5	IgG	TRUE	DT	9.780000e+01	1.07709251
4082	5	IgG	TRUE	FHA	6.887550e+03	1.26596576
4083	5	IgG	TRUE	OVA	2.715500e+02	0.08971521
4084	5	IgG	TRUE	PRN	1.713150e+04	1.37677054
4085	5	IgG	TRUE	PT	2.794880e+04	1.81293825
4086	5	IgG	TRUE	TT	1.817520e+04	1.09638754
4087	5	IgG	TRUE	FIM2/3	6.272350e+03	2.21849468
4088	6	IgG	TRUE	DT	1.418000e+02	1.56167401
4089	6	IgG	TRUE	FHA	9.110550e+03	1.67456415

4090	6	IgG	TRUE	OVA	2.920500e+02	0.09648804
4091	6	IgG	TRUE	PRN	2.078525e+04	1.67040363
4092	6	IgG	TRUE	PT	2.869205e+04	1.86115021
4093	6	IgG	TRUE	TT	2.532670e+04	1.52778942
4094	6	IgG	TRUE	FIM2/3	1.205160e+04	4.26258268
4095	7	IgG	TRUE	DT	2.140500e+02	2.35737885
4096	7	IgG	TRUE	FHA	1.378205e+04	2.53320896
4097	7	IgG	TRUE	OVA	4.013000e+02	0.13258227
4098	7	IgG	TRUE	PRN	2.559250e+04	2.05673759
4099	7	IgG	TRUE	PT	3.018680e+04	1.95810927
4100	7	IgG	TRUE	TT	3.013995e+04	1.81814041
4101	7	IgG	TRUE	FIM2/3	1.925385e+04	6.80997772
4102	8	IgG	TRUE	DT	1.735500e+02	1.91134361
4103	8	IgG	TRUE	FHA	1.356355e+04	2.49304758
4104	8	IgG	TRUE	OVA	3.913000e+02	0.12927845
4105	8	IgG	TRUE	PRN	2.720725e+04	2.18650674
4106	8	IgG	TRUE	PT	3.121530e+04	2.02482437
4107	8	IgG	TRUE	TT	2.923870e+04	1.76377407
4108	8	IgG	TRUE	FIM2/3	1.864210e+04	6.59360521
4109	9	IgG	TRUE	DT	1.590500e+02	1.75165198
4110	9	IgG	TRUE	FHA	1.074905e+04	1.97572856
4111	9	IgG	TRUE	OVA	3.908000e+02	0.12911325
4112	9	IgG	TRUE	PRN	2.518700e+04	2.02414964
4113	9	IgG	TRUE	PT	2.814180e+04	1.82545747
4114	9	IgG	TRUE	TT	2.965770e+04	1.78904952
4115	9	IgG	TRUE	FIM2/3	1.616060e+04	5.71591271
4116	10	IgG	TRUE	DT	1.425500e+02	1.56993392
4117	10	IgG	TRUE	FHA	9.690800e+03	1.78121697
4118	10	IgG	TRUE	OVA	4.485500e+02	0.14819281
4119	10	IgG	TRUE	PRN	2.274625e+04	1.82799912
4120	10	IgG	TRUE	PT	2.767455e+04	1.79514864
4121	10	IgG	TRUE	TT	2.874770e+04	1.73415534
4122	10	IgG	TRUE	FIM2/3	1.493160e+04	5.28122237
4123	1	IgG	TRUE	DT	1.538000e+02	1.69383260
4124	1	IgG	TRUE	FHA	1.104055e+04	2.02930770
4125	1	IgG	TRUE	OVA	2.453300e+03	0.81052597
4126	1	IgG	TRUE	PRN	2.265300e+04	1.82050509
4127	1	IgG	TRUE	PT	1.741005e+04	1.12932740
4128	1	IgG	TRUE	TT	1.545345e+04	0.93220267
4129	1	IgG	TRUE	FIM2/3	4.321100e+03	1.52834860
4130	2	IgG	TRUE	DT	1.405500e+02	1.54790749
4131	2	IgG	TRUE	FHA	1.169580e+04	2.14974589
4132	2	IgG	TRUE	OVA	2.354300e+03	0.77781816

4133	2	IgG	TRUE	PRN	2.319875e+04	1.86436421
4134	2	IgG	TRUE	PT	1.749705e+04	1.13497078
4135	2	IgG	TRUE	TT	1.589470e+04	0.95882032
4136	2	IgG	TRUE	FIM2/3	4.601350e+03	1.62747144
4137	3	IgG	TRUE	DT	1.388000e+02	1.52863436
4138	3	IgG	TRUE	FHA	1.089905e+04	2.00329930
4139	3	IgG	TRUE	OVA	2.491300e+03	0.82308048
4140	3	IgG	TRUE	PRN	2.264375e+04	1.81976172
4141	3	IgG	TRUE	PT	1.601830e+04	1.03904958
4142	3	IgG	TRUE	TT	1.550070e+04	0.93505295
4143	3	IgG	TRUE	FIM2/3	4.282600e+03	1.51473137
4144	4	IgG	TRUE	DT	1.568000e+02	1.72687225
4145	4	IgG	TRUE	FHA	1.060955e+04	1.95008777
4146	4	IgG	TRUE	OVA	2.576800e+03	0.85132814
4147	4	IgG	TRUE	PRN	2.285625e+04	1.83683925
4148	4	IgG	TRUE	PT	1.739155e+04	1.12812737
4149	4	IgG	TRUE	TT	1.609120e+04	0.97067384
4150	4	IgG	TRUE	FIM2/3	4.468850e+03	1.58060694
4151	5	IgG	TRUE	DT	1.463000e+02	1.61123348
4152	5	IgG	TRUE	FHA	1.083130e+04	1.99084651
4153	5	IgG	TRUE	OVA	2.297800e+03	0.75915158
4154	5	IgG	TRUE	PRN	2.260725e+04	1.81682840
4155	5	IgG	TRUE	PT	1.527330e+04	0.99072410
4156	5	IgG	TRUE	TT	1.597195e+04	0.96348029
4157	5	IgG	TRUE	FIM2/3	4.570600e+03	1.61659534
4158	6	IgG	TRUE	DT	2.488000e+02	2.74008811
4159	6	IgG	TRUE	FHA	1.361005e+04	2.50159451
4160	6	IgG	TRUE	OVA	2.403300e+03	0.79400687
4161	6	IgG	TRUE	PRN	3.059250e+04	2.45856187
4162	6	IgG	TRUE	PT	2.114680e+04	1.37171695
4163	6	IgG	TRUE	TT	2.556020e+04	1.54187491
4164	6	IgG	TRUE	FIM2/3	1.130585e+04	3.99881512
4165	7	IgG	TRUE	DT	2.593000e+02	2.85572687
4166	7	IgG	TRUE	FHA	1.503830e+04	2.76411392
4167	7	IgG	TRUE	OVA	2.278050e+03	0.75262654
4168	7	IgG	TRUE	PRN	3.495925e+04	2.80949511
4169	7	IgG	TRUE	PT	2.130180e+04	1.38177124
4170	7	IgG	TRUE	TT	2.584195e+04	1.55887099
4171	7	IgG	TRUE	FIM2/3	1.617360e+04	5.72051073
4172	8	IgG	TRUE	DT	2.365500e+02	2.60517621
4173	8	IgG	TRUE	FHA	1.523055e+04	2.79945042
4174	8	IgG	TRUE	OVA	3.806550e+03	1.25761530
4175	8	IgG	TRUE	PRN	3.396650e+04	2.72971290

4176	8	IgG	TRUE	PT	2.132955e+04	1.38357128
4177	8	IgG	TRUE	TT	2.568970e+04	1.54968677
4178	8	IgG	TRUE	FIM2/3	1.845610e+04	6.52781806
4179	9	IgG	TRUE	DT	1.898000e+02	2.09030837
4180	9	IgG	TRUE	FHA	1.235730e+04	2.27133286
4181	9	IgG	TRUE	OVA	2.560300e+03	0.84587683
4182	9	IgG	TRUE	PRN	3.557225e+04	2.85875876
4183	9	IgG	TRUE	PT	1.774655e+04	1.15115495
4184	9	IgG	TRUE	TT	2.361645e+04	1.42462155
4185	9	IgG	TRUE	FIM2/3	1.577235e+04	5.57859088
4186	10	IgG	TRUE	DT	1.878000e+02	2.06828194
4187	10	IgG	TRUE	FHA	1.174530e+04	2.15884423
4188	10	IgG	TRUE	OVA	4.565300e+03	1.50829259
4189	10	IgG	TRUE	PRN	3.550550e+04	2.85339441
4190	10	IgG	TRUE	PT	2.015680e+04	1.30749921
4191	10	IgG	TRUE	TT	2.394170e+04	1.44424169
4192	10	IgG	TRUE	FIM2/3	1.645910e+04	5.82149047
4193	1	IgG	TRUE	DT	2.910000e+01	0.32048458
4194	1	IgG	TRUE	FHA	2.380050e+03	0.43746496
4195	1	IgG	TRUE	OVA	4.149300e+03	1.37085371
4196	1	IgG	TRUE	PRN	3.444800e+03	0.27684086
4197	1	IgG	TRUE	PT	1.541630e+04	1.00000000
4198	1	IgG	TRUE	TT	1.583900e+04	0.95546031
4199	1	IgG	TRUE	FIM2/3	1.388600e+03	0.49113996
4200	2	IgG	TRUE	DT	2.460000e+01	0.27092511
4201	2	IgG	TRUE	FHA	2.091800e+03	0.38448319
4202	2	IgG	TRUE	OVA	3.725800e+03	1.23093696
4203	2	IgG	TRUE	PRN	2.641800e+03	0.21230788
4204	2	IgG	TRUE	PT	1.570580e+04	1.01877883
4205	2	IgG	TRUE	TT	1.479675e+04	0.89258838
4206	2	IgG	TRUE	FIM2/3	9.056000e+02	0.32030559
4207	3	IgG	TRUE	DT	2.310000e+01	0.25440529
4208	3	IgG	TRUE	FHA	2.043050e+03	0.37552270
4209	3	IgG	TRUE	OVA	3.303800e+03	1.09151579
4210	3	IgG	TRUE	PRN	2.702800e+03	0.21721013
4211	3	IgG	TRUE	PT	1.482130e+04	0.96140449
4212	3	IgG	TRUE	TT	1.445200e+04	0.87179193
4213	3	IgG	TRUE	FIM2/3	1.115600e+03	0.39458140
4214	4	IgG	TRUE	DT	2.360000e+01	0.25991189
4215	4	IgG	TRUE	FHA	2.029300e+03	0.37299538
4216	4	IgG	TRUE	OVA	3.385800e+03	1.11860711
4217	4	IgG	TRUE	PRN	2.661050e+03	0.21385490
4218	4	IgG	TRUE	PT	1.494705e+04	0.96956144

4219	4	IgG	TRUE	TT	1.452425e+04	0.87615029
4220	4	IgG	TRUE	FIM2/3	1.020100e+03	0.36080359
4221	5	IgG	TRUE	DT	1.380000e+01	0.15198238
4222	5	IgG	TRUE	FHA	1.050150e+03	0.19302276
4223	5	IgG	TRUE	OVA	1.895150e+03	0.62612330
4224	5	IgG	TRUE	PRN	1.351400e+03	0.10860507
4225	5	IgG	TRUE	PT	7.783650e+03	0.50489741
4226	5	IgG	TRUE	TT	7.567000e+03	0.45646620
4227	5	IgG	TRUE	FIM2/3	4.995500e+02	0.17668801
4228	6	IgG	TRUE	DT	4.310000e+01	0.47466960
4229	6	IgG	TRUE	FHA	3.343550e+03	0.61456103
4230	6	IgG	TRUE	OVA	3.304300e+03	1.09168098
4231	6	IgG	TRUE	PRN	1.092205e+04	0.87774898
4232	6	IgG	TRUE	PT	1.750205e+04	1.13529511
4233	6	IgG	TRUE	TT	2.072875e+04	1.25042603
4234	6	IgG	TRUE	FIM2/3	7.466600e+03	2.64089414
4235	7	IgG	TRUE	DT	1.453500e+02	1.60077093
4236	7	IgG	TRUE	FHA	1.040680e+04	1.91282131
4237	7	IgG	TRUE	OVA	3.112300e+03	1.02824765
4238	7	IgG	TRUE	PRN	2.214005e+04	1.77928194
4239	7	IgG	TRUE	PT	1.970255e+04	1.27803364
4240	7	IgG	TRUE	TT	2.474300e+04	1.49257873
4241	7	IgG	TRUE	FIM2/3	1.468360e+04	5.19350617
4242	8	IgG	TRUE	DT	1.228500e+02	1.35297357
4243	8	IgG	TRUE	FHA	9.153050e+03	1.68237586
4244	8	IgG	TRUE	OVA	3.244800e+03	1.07202326
4245	8	IgG	TRUE	PRN	1.890530e+04	1.51932172
4246	8	IgG	TRUE	PT	1.826680e+04	1.18490169
4247	8	IgG	TRUE	TT	2.281650e+04	1.37636595
4248	8	IgG	TRUE	FIM2/3	1.317560e+04	4.66013511
4249	9	IgG	TRUE	DT	9.360000e+01	1.03083700
4250	9	IgG	TRUE	FHA	7.356800e+03	1.35221623
4251	9	IgG	TRUE	OVA	3.556300e+03	1.17493723
4252	9	IgG	TRUE	PRN	1.557830e+04	1.25194784
4253	9	IgG	TRUE	PT	1.610430e+04	1.04462809
4254	9	IgG	TRUE	TT	2.210225e+04	1.33328005
4255	9	IgG	TRUE	FIM2/3	1.132660e+04	4.00615428
4256	1	IgG	TRUE	DT	7.122500e+02	0.30888491
4257	1	IgG	TRUE	FHA	1.314250e+03	1.02360902
4258	1	IgG	TRUE	FIM2/3	2.664500e+03	1.11072899
4259	1	IgG	TRUE	OVA	8.400000e+01	1.22851920
4260	1	IgG	TRUE	PRN	5.626500e+03	0.58790032
4261	1	IgG	TRUE	PT	1.725000e+02	1.91933241

4262	1	IgG	TRUE	TT	1.465000e+02	0.52204900
4263	2	IgG	TRUE	DT	6.630000e+02	0.28752643
4264	2	IgG	TRUE	FHA	1.096000e+03	0.85362411
4265	2	IgG	TRUE	FIM2/3	2.390000e+03	0.99630035
4266	2	IgG	TRUE	OVA	7.800000e+01	1.14076782
4267	2	IgG	TRUE	PRN	5.313250e+03	0.55516953
4268	2	IgG	TRUE	PT	1.600000e+02	1.78025035
4269	2	IgG	TRUE	TT	1.320000e+02	0.47037862
4270	3	IgG	TRUE	DT	5.585000e+02	0.24220740
4271	3	IgG	TRUE	FHA	1.058000e+03	0.82402765
4272	3	IgG	TRUE	FIM2/3	1.908000e+03	0.79537283
4273	3	IgG	TRUE	OVA	8.125000e+01	1.18829982
4274	3	IgG	TRUE	PRN	4.139000e+03	0.43247479
4275	3	IgG	TRUE	PT	1.405000e+02	1.56328234
4276	3	IgG	TRUE	TT	1.165000e+02	0.41514477
4277	4	IgG	TRUE	DT	6.420000e+02	0.27841926
4278	4	IgG	TRUE	FHA	9.435000e+02	0.73484885
4279	4	IgG	TRUE	FIM2/3	2.440000e+03	1.01714345
4280	4	IgG	TRUE	OVA	8.400000e+01	1.22851920
4281	4	IgG	TRUE	PRN	5.125500e+03	0.53555196
4282	4	IgG	TRUE	PT	1.477500e+02	1.64394993
4283	4	IgG	TRUE	TT	1.260000e+02	0.44899777
4284	5	IgG	TRUE	DT	1.071350e+04	4.64617553
4285	5	IgG	TRUE	FHA	1.504600e+04	11.71863895
4286	5	IgG	TRUE	FIM2/3	3.283025e+04	13.68568600
4287	5	IgG	TRUE	OVA	8.700000e+01	1.27239488
4288	5	IgG	TRUE	PRN	2.591150e+04	2.70743430
4289	5	IgG	TRUE	PT	4.842500e+02	5.38803894
4290	5	IgG	TRUE	TT	1.504250e+03	5.36035635
4291	6	IgG	TRUE	DT	1.072525e+04	4.65127121
4292	6	IgG	TRUE	FHA	1.477575e+04	11.50815363
4293	6	IgG	TRUE	FIM2/3	3.529150e+04	14.71168777
4294	6	IgG	TRUE	OVA	9.150000e+01	1.33820841
4295	6	IgG	TRUE	PRN	2.531425e+04	2.64502900
4296	6	IgG	TRUE	PT	4.272500e+02	4.75382476
4297	6	IgG	TRUE	TT	1.490000e+03	5.30957684
4298	7	IgG	TRUE	DT	9.052250e+03	3.92573318
4299	7	IgG	TRUE	FHA	8.707750e+03	6.78206688
4300	7	IgG	TRUE	FIM2/3	3.056250e+04	12.74034704
4301	7	IgG	TRUE	OVA	8.000000e+01	1.17001828
4302	7	IgG	TRUE	PRN	2.010075e+04	2.10028212
4303	7	IgG	TRUE	PT	2.872500e+02	3.19610570
4304	7	IgG	TRUE	TT	1.092500e+03	3.89309577

4305	1	IgG	TRUE	DT	7.441500e+03	1.04693738
4306	1	IgG	TRUE	FHA	2.242825e+04	4.00549168
4307	1	IgG	TRUE	FIM2/3	7.647500e+02	0.38196916
4308	1	IgG	TRUE	OVA	1.056250e+03	0.64400579
4309	1	IgG	TRUE	PRN	1.846825e+04	2.35211895
4310	1	IgG	TRUE	PT	1.330000e+02	1.80033841
4311	1	IgG	TRUE	TT	6.496250e+03	0.76168841
4312	2	IgG	TRUE	DT	7.678000e+03	1.08021033
4313	2	IgG	TRUE	FHA	2.167700e+04	3.87132492
4314	2	IgG	TRUE	FIM2/3	8.062500e+02	0.40269713
4315	2	IgG	TRUE	OVA	1.291250e+03	0.78728755
4316	2	IgG	TRUE	PRN	1.822050e+04	2.32056548
4317	2	IgG	TRUE	PT	1.347500e+02	1.82402707
4318	2	IgG	TRUE	TT	6.816500e+03	0.79923787
4319	3	IgG	TRUE	DT	7.599000e+03	1.06909590
4320	3	IgG	TRUE	FHA	2.293525e+04	4.09603750
4321	3	IgG	TRUE	FIM2/3	9.020000e+02	0.45052132
4322	3	IgG	TRUE	OVA	1.178250e+03	0.71839037
4323	3	IgG	TRUE	PRN	2.012050e+04	2.56254975
4324	3	IgG	TRUE	PT	1.115000e+02	1.50930626
4325	3	IgG	TRUE	TT	7.585250e+03	0.88937418
4326	4	IgG	TRUE	DT	8.312750e+03	1.16951269
4327	4	IgG	TRUE	FHA	2.228750e+04	3.98035495
4328	4	IgG	TRUE	FIM2/3	8.715000e+02	0.43528751
4329	4	IgG	TRUE	OVA	1.535250e+03	0.93605670
4330	4	IgG	TRUE	PRN	2.094600e+04	2.66768555
4331	4	IgG	TRUE	PT	1.440000e+02	1.94923858
4332	4	IgG	TRUE	TT	7.786750e+03	0.91300015
4333	5	IgG	TRUE	DT	7.530750e+03	1.05949387
4334	5	IgG	TRUE	FHA	1.877100e+04	3.35233843
4335	5	IgG	TRUE	FIM2/3	8.050000e+02	0.40207280
4336	5	IgG	TRUE	OVA	1.153500e+03	0.70330005
4337	5	IgG	TRUE	PRN	1.960075e+04	2.49635432
4338	5	IgG	TRUE	PT	1.075000e+02	1.45516074
4339	5	IgG	TRUE	TT	7.161750e+03	0.83971860
4340	6	IgG	TRUE	DT	1.571150e+04	2.21043561
4341	6	IgG	TRUE	FHA	2.273050e+04	4.05947092
4342	6	IgG	TRUE	FIM2/3	2.312350e+04	11.54947868
4343	6	IgG	TRUE	OVA	1.151500e+03	0.70208063
4344	6	IgG	TRUE	PRN	3.008975e+04	3.83223485
4345	6	IgG	TRUE	PT	2.637500e+02	3.57021997
4346	6	IgG	TRUE	TT	2.804650e+04	3.28846548
4347	7	IgG	TRUE	DT	1.843975e+04	2.59427044

4348	7	IgG	TRUE	FHA	2.619300e+04	4.67784351
4349	7	IgG	TRUE	FIM2/3	2.919475e+04	14.58188175
4350	7	IgG	TRUE	OVA	1.392000e+03	0.84871580
4351	7	IgG	TRUE	PRN	3.227050e+04	4.10997548
4352	7	IgG	TRUE	PT	3.205000e+02	4.33840948
4353	7	IgG	TRUE	TT	2.896700e+04	3.39639455
4354	8	IgG	TRUE	DT	1.709875e+04	2.40560646
4355	8	IgG	TRUE	FHA	2.418025e+04	4.31838375
4356	8	IgG	TRUE	FIM2/3	2.795725e+04	13.96378847
4357	8	IgG	TRUE	OVA	1.279000e+03	0.77981861
4358	8	IgG	TRUE	PRN	3.138250e+04	3.99687968
4359	8	IgG	TRUE	PT	2.662500e+02	3.60406091
4360	8	IgG	TRUE	TT	2.793950e+04	3.27591968
4361	1	IgG	TRUE	DT	1.150725e+04	1.61894378
4362	1	IgG	TRUE	FHA	6.618750e+03	1.18205157
4363	1	IgG	TRUE	FIM2/3	1.040000e+02	0.05194481
4364	1	IgG	TRUE	OVA	6.764500e+03	4.12438076
4365	1	IgG	TRUE	PRN	5.813500e+03	0.74040819
4366	1	IgG	TRUE	PT	7.000000e+01	0.94754653
4367	1	IgG	TRUE	TT	2.163750e+04	2.53700718
4368	2	IgG	TRUE	DT	1.096450e+04	1.54258481
4369	2	IgG	TRUE	FHA	5.655500e+03	1.01002344
4370	2	IgG	TRUE	FIM2/3	8.850000e+01	0.04420303
4371	2	IgG	TRUE	OVA	6.145500e+03	3.74697051
4372	2	IgG	TRUE	PRN	5.148500e+03	0.65571369
4373	2	IgG	TRUE	PT	6.050000e+01	0.81895093
4374	2	IgG	TRUE	TT	2.134200e+04	2.50235967
4375	3	IgG	TRUE	DT	1.103450e+04	1.55243304
4376	3	IgG	TRUE	FHA	5.639000e+03	1.00707668
4377	3	IgG	TRUE	FIM2/3	8.175000e+01	0.04083162
4378	3	IgG	TRUE	OVA	6.202000e+03	3.78141910
4379	3	IgG	TRUE	PRN	5.252000e+03	0.66889547
4380	3	IgG	TRUE	PT	5.400000e+01	0.73096447
4381	3	IgG	TRUE	TT	2.140950e+04	2.51027407
4382	4	IgG	TRUE	DT	1.159700e+04	1.63157062
4383	4	IgG	TRUE	FHA	6.388500e+03	1.14093091
4384	4	IgG	TRUE	FIM2/3	9.550000e+01	0.04769932
4385	4	IgG	TRUE	OVA	6.784000e+03	4.13627010
4386	4	IgG	TRUE	PRN	5.878500e+03	0.74868660
4387	4	IgG	TRUE	PT	6.000000e+01	0.81218274
4388	4	IgG	TRUE	TT	2.153850e+04	2.52539938
4389	5	IgG	TRUE	DT	1.131025e+04	1.59122804
4390	5	IgG	TRUE	FHA	6.454000e+03	1.15262864

4391	5	IgG	TRUE	FIM2/3	1.285000e+02	0.06418181
4392	5	IgG	TRUE	OVA	5.672000e+03	3.45827300
4393	5	IgG	TRUE	PRN	5.930500e+03	0.75530933
4394	5	IgG	TRUE	PT	8.950000e+01	1.21150592
4395	5	IgG	TRUE	TT	2.228800e+04	2.61327862
4396	6	IgG	TRUE	DT	2.313850e+04	3.25533299
4397	6	IgG	TRUE	FHA	1.382575e+04	2.46915950
4398	6	IgG	TRUE	FIM2/3	2.630250e+03	1.31372916
4399	6	IgG	TRUE	OVA	6.870250e+03	4.18885756
4400	6	IgG	TRUE	PRN	2.661600e+04	3.38981756
4401	6	IgG	TRUE	PT	1.235000e+02	1.67174281
4402	6	IgG	TRUE	TT	2.704650e+04	3.17121501
4403	7	IgG	TRUE	DT	2.367925e+04	3.33141058
4404	7	IgG	TRUE	FHA	2.124875e+04	3.79484317
4405	7	IgG	TRUE	FIM2/3	2.427000e+03	1.21221202
4406	7	IgG	TRUE	OVA	6.539000e+03	3.98689124
4407	7	IgG	TRUE	PRN	2.847950e+04	3.62715318
4408	7	IgG	TRUE	PT	1.420000e+02	1.92216582
4409	7	IgG	TRUE	TT	2.802775e+04	3.28626704
4410	8	IgG	TRUE	DT	2.248950e+04	3.16402582
4411	8	IgG	TRUE	FHA	1.653375e+04	2.95278491
4412	8	IgG	TRUE	FIM2/3	2.762500e+03	1.37978398
4413	8	IgG	TRUE	OVA	5.628750e+03	3.43190306
4414	8	IgG	TRUE	PRN	2.933925e+04	3.73665107
4415	8	IgG	TRUE	PT	1.240000e+02	1.67851100
4416	8	IgG	TRUE	TT	2.852650e+04	3.34474571
4417	1	IgG	TRUE	DT	4.923750e+03	0.69271758
4418	1	IgG	TRUE	FHA	5.970000e+03	1.06619042
4419	1	IgG	TRUE	FIM2/3	1.162500e+03	0.58063308
4420	1	IgG	TRUE	OVA	5.330500e+03	3.25005716
4421	1	IgG	TRUE	PRN	9.388250e+03	1.19568886
4422	1	IgG	TRUE	PT	8.000000e+01	1.08291032
4423	1	IgG	TRUE	TT	9.172750e+03	1.07550931
4424	2	IgG	TRUE	DT	4.904750e+03	0.69004449
4425	2	IgG	TRUE	FHA	6.081000e+03	1.08601406
4426	2	IgG	TRUE	FIM2/3	1.235000e+03	0.61684460
4427	2	IgG	TRUE	OVA	5.220000e+03	3.18268425
4428	2	IgG	TRUE	PRN	9.461000e+03	1.20495431
4429	2	IgG	TRUE	PT	1.165000e+02	1.57698816
4430	2	IgG	TRUE	TT	9.198000e+03	1.07846988
4431	3	IgG	TRUE	DT	4.627250e+03	0.65100329
4432	3	IgG	TRUE	FHA	5.775000e+03	1.03136511
4433	3	IgG	TRUE	FIM2/3	1.096500e+03	0.54766810

4434	3	IgG	TRUE	OVA	4.999000e+03	3.04793842
4435	3	IgG	TRUE	PRN	8.758250e+03	1.11545197
4436	3	IgG	TRUE	PT	1.385000e+02	1.87478849
4437	3	IgG	TRUE	TT	8.463500e+03	0.99234941
4438	4	IgG	TRUE	DT	4.855500e+03	0.68311556
4439	4	IgG	TRUE	FHA	5.712000e+03	1.02011385
4440	4	IgG	TRUE	FIM2/3	1.308250e+03	0.65343073
4441	4	IgG	TRUE	OVA	5.169250e+03	3.15174148
4442	4	IgG	TRUE	PRN	9.421500e+03	1.19992358
4443	4	IgG	TRUE	PT	1.400000e+02	1.89509306
4444	4	IgG	TRUE	TT	9.234000e+03	1.08269090
4445	5	IgG	TRUE	DT	5.246000e+03	0.73805462
4446	5	IgG	TRUE	FHA	6.265000e+03	1.11887487
4447	5	IgG	TRUE	FIM2/3	1.370000e+03	0.68427296
4448	5	IgG	TRUE	OVA	5.469000e+03	3.33450194
4449	5	IgG	TRUE	PRN	1.020500e+04	1.29971026
4450	5	IgG	TRUE	PT	1.665000e+02	2.25380711
4451	5	IgG	TRUE	TT	1.005400e+04	1.17883629
4452	6	IgG	TRUE	DT	2.113350e+04	2.97325150
4453	6	IgG	TRUE	FHA	1.248375e+04	2.22948990
4454	6	IgG	TRUE	FIM2/3	2.690450e+04	13.43797215
4455	6	IgG	TRUE	OVA	4.727500e+03	2.88240226
4456	6	IgG	TRUE	PRN	2.957825e+04	3.76709014
4457	6	IgG	TRUE	PT	2.390000e+02	3.23519459
4458	6	IgG	TRUE	TT	2.725050e+04	3.19513411
4459	7	IgG	TRUE	DT	1.986300e+04	2.79450609
4460	7	IgG	TRUE	FHA	1.521275e+04	2.71686572
4461	7	IgG	TRUE	FIM2/3	2.806225e+04	14.01623275
4462	7	IgG	TRUE	OVA	4.471500e+03	2.72631659
4463	7	IgG	TRUE	PRN	2.972975e+04	3.78638520
4464	7	IgG	TRUE	PT	2.677500e+02	3.62436548
4465	7	IgG	TRUE	TT	2.785625e+04	3.26615858
4466	8	IgG	TRUE	DT	1.557750e+04	2.19158328
4467	8	IgG	TRUE	FHA	1.416550e+04	2.52983592
4468	8	IgG	TRUE	FIM2/3	2.487300e+04	12.42330024
4469	8	IgG	TRUE	OVA	4.181000e+03	2.54919595
4470	8	IgG	TRUE	PRN	2.851625e+04	3.63183367
4471	8	IgG	TRUE	PT	2.037500e+02	2.75803723
4472	8	IgG	TRUE	TT	2.664900e+04	3.12460794
4473	1	IgG	TRUE	DT	5.167750e+03	0.72704571
4474	1	IgG	TRUE	FHA	3.951000e+03	0.70561447
4475	1	IgG	TRUE	FIM2/3	1.332750e+03	0.66566773
4476	1	IgG	TRUE	OVA	1.672000e+03	1.01943449

4477	1	IgG	TRUE	PRN	2.098500e+03	0.26726526
4478	1	IgG	TRUE	PT	1.215000e+02	1.64467005
4479	1	IgG	TRUE	TT	3.440500e+03	0.40340026
4480	2	IgG	TRUE	DT	5.046500e+03	0.70998716
4481	2	IgG	TRUE	FHA	3.544000e+03	0.63292778
4482	2	IgG	TRUE	FIM2/3	1.310000e+03	0.65430480
4483	2	IgG	TRUE	OVA	1.602500e+03	0.97705968
4484	2	IgG	TRUE	PRN	1.937000e+03	0.24669660
4485	2	IgG	TRUE	PT	1.565000e+02	2.11844332
4486	2	IgG	TRUE	TT	3.367000e+03	0.39478235
4487	3	IgG	TRUE	DT	4.804750e+03	0.67597559
4488	3	IgG	TRUE	FHA	3.601500e+03	0.64319679
4489	3	IgG	TRUE	FIM2/3	1.225000e+03	0.61184991
4490	3	IgG	TRUE	OVA	1.425500e+03	0.86914107
4491	3	IgG	TRUE	PRN	1.900250e+03	0.24201611
4492	3	IgG	TRUE	PT	1.642500e+02	2.22335025
4493	3	IgG	TRUE	TT	3.146750e+03	0.36895794
4494	4	IgG	TRUE	DT	5.404500e+03	0.76035383
4495	4	IgG	TRUE	FHA	4.498750e+03	0.80343788
4496	4	IgG	TRUE	FIM2/3	1.413250e+03	0.70587501
4497	4	IgG	TRUE	OVA	1.663750e+03	1.01440439
4498	4	IgG	TRUE	PRN	2.130500e+03	0.27134078
4499	4	IgG	TRUE	PT	1.775000e+02	2.40270728
4500	4	IgG	TRUE	TT	3.639500e+03	0.42673311
4501	5	IgG	TRUE	DT	4.732500e+03	0.66581081
4502	5	IgG	TRUE	FHA	3.556250e+03	0.63511553
4503	5	IgG	TRUE	FIM2/3	1.214000e+03	0.60635575
4504	5	IgG	TRUE	OVA	1.294250e+03	0.78911668
4505	5	IgG	TRUE	PRN	1.788000e+03	0.22771994
4506	5	IgG	TRUE	PT	1.735000e+02	2.34856176
4507	5	IgG	TRUE	TT	3.030500e+03	0.35532757
4508	6	IgG	TRUE	DT	2.418750e+04	3.40291578
4509	6	IgG	TRUE	FHA	9.411750e+03	1.68085724
4510	6	IgG	TRUE	FIM2/3	1.575975e+04	7.87151152
4511	6	IgG	TRUE	OVA	1.405000e+03	0.85664202
4512	6	IgG	TRUE	PRN	1.828450e+04	2.32871653
4513	6	IgG	TRUE	PT	1.540000e+02	2.08460237
4514	6	IgG	TRUE	TT	2.684800e+04	3.14794079
4515	7	IgG	TRUE	DT	2.555600e+04	3.59544871
4516	7	IgG	TRUE	FHA	2.381625e+04	4.25337649
4517	7	IgG	TRUE	FIM2/3	2.034375e+04	10.16107885
4518	7	IgG	TRUE	OVA	1.365500e+03	0.83255849
4519	7	IgG	TRUE	PRN	2.930500e+04	3.73228898

4520	7	IgG	TRUE	PT	1.752500e+02	2.37225042
4521	7	IgG	TRUE	TT	2.743750e+04	3.21705994
4522	8	IgG	TRUE	DT	2.627425e+04	3.69649860
4523	8	IgG	TRUE	FHA	2.500950e+04	4.46648063
4524	8	IgG	TRUE	FIM2/3	1.834125e+04	9.16089155
4525	8	IgG	TRUE	OVA	1.300000e+03	0.79262251
4526	8	IgG	TRUE	PRN	2.951050e+04	3.75846149
4527	8	IgG	TRUE	PT	1.812500e+02	2.45346870
4528	8	IgG	TRUE	TT	2.921375e+04	3.42532610
4529	1	IgG	TRUE	DT	1.444800e+04	2.03267503
4530	1	IgG	TRUE	FHA	2.154000e+03	0.38468579
4531	1	IgG	TRUE	FIM2/3	4.745000e+02	0.23699819
4532	1	IgG	TRUE	OVA	1.450000e+02	0.08840790
4533	1	IgG	TRUE	PRN	1.052700e+04	1.34072022
4534	1	IgG	TRUE	PT	4.700000e+01	0.63620981
4535	1	IgG	TRUE	TT	7.099250e+03	0.83239044
4536	2	IgG	TRUE	DT	1.398400e+04	1.96739532
4537	2	IgG	TRUE	FHA	1.802500e+03	0.32191093
4538	2	IgG	TRUE	FIM2/3	5.722500e+02	0.28582131
4539	2	IgG	TRUE	OVA	2.082500e+02	0.12697203
4540	2	IgG	TRUE	PRN	9.347000e+03	1.19043525
4541	2	IgG	TRUE	PT	4.900000e+01	0.66328257
4542	2	IgG	TRUE	TT	7.291500e+03	0.85493185
4543	3	IgG	TRUE	DT	1.279250e+04	1.79976435
4544	3	IgG	TRUE	FHA	1.674250e+03	0.29900659
4545	3	IgG	TRUE	FIM2/3	3.632500e+02	0.18143223

	unit	lower_limit_of_detection
1	IU/ML	5.300000e-01
2	IU/ML	6.205949e+00
3	IU/ML	4.679535e+00
4	IU/ML	5.300000e-01
5	IU/ML	6.205949e+00
6	IU/ML	4.679535e+00
7	IU/ML	5.300000e-01
8	IU/ML	6.205949e+00
9	IU/ML	4.679535e+00
10	IU/ML	5.300000e-01
11	IU/ML	6.205949e+00
12	IU/ML	4.679535e+00
13	IU/ML	5.300000e-01
14	IU/ML	6.205949e+00
15	IU/ML	4.679535e+00
16	IU/ML	5.300000e-01

17	IU/ML	6.205949e+00
18	IU/ML	4.679535e+00
19	IU/ML	5.300000e-01
20	IU/ML	6.205949e+00
21	IU/ML	4.679535e+00
22	IU/ML	5.300000e-01
23	IU/ML	6.205949e+00
24	IU/ML	4.679535e+00
25	IU/ML	5.300000e-01
26	IU/ML	6.205949e+00
27	IU/ML	4.679535e+00
28	IU/ML	5.300000e-01
29	IU/ML	6.205949e+00
30	IU/ML	4.679535e+00
31	IU/ML	5.300000e-01
32	IU/ML	6.205949e+00
33	IU/ML	4.679535e+00
34	IU/ML	5.300000e-01
35	IU/ML	6.205949e+00
36	IU/ML	4.679535e+00
37	IU/ML	5.300000e-01
38	IU/ML	6.205949e+00
39	IU/ML	4.679535e+00
40	IU/ML	5.300000e-01
41	IU/ML	6.205949e+00
42	IU/ML	4.679535e+00
43	IU/ML	5.300000e-01
44	IU/ML	6.205949e+00
45	IU/ML	4.679535e+00
46	IU/ML	5.300000e-01
47	IU/ML	6.205949e+00
48	IU/ML	4.679535e+00
49	IU/ML	5.300000e-01
50	IU/ML	6.205949e+00
51	IU/ML	4.679535e+00
52	IU/ML	5.300000e-01
53	IU/ML	6.205949e+00
54	IU/ML	4.679535e+00
55	IU/ML	5.300000e-01
56	IU/ML	6.205949e+00
57	IU/ML	4.679535e+00
58	IU/ML	5.300000e-01
59	IU/ML	6.205949e+00

60	IU/ML	4.679535e+00
61	IU/ML	5.300000e-01
62	IU/ML	6.205949e+00
63	IU/ML	4.679535e+00
64	IU/ML	5.300000e-01
65	IU/ML	6.205949e+00
66	IU/ML	4.679535e+00
67	IU/ML	5.300000e-01
68	IU/ML	6.205949e+00
69	IU/ML	4.679535e+00
70	IU/ML	5.300000e-01
71	IU/ML	6.205949e+00
72	IU/ML	4.679535e+00
73	IU/ML	5.300000e-01
74	IU/ML	6.205949e+00
75	IU/ML	4.679535e+00
76	IU/ML	5.300000e-01
77	IU/ML	6.205949e+00
78	IU/ML	4.679535e+00
79	IU/ML	5.300000e-01
80	IU/ML	6.205949e+00
81	IU/ML	4.679535e+00
82	IU/ML	5.300000e-01
83	IU/ML	6.205949e+00
84	IU/ML	4.679535e+00
85	IU/ML	5.300000e-01
86	IU/ML	6.205949e+00
87	IU/ML	4.679535e+00
88	IU/ML	5.300000e-01
89	IU/ML	6.205949e+00
90	IU/ML	4.679535e+00
91	IU/ML	5.300000e-01
92	IU/ML	6.205949e+00
93	IU/ML	4.679535e+00
94	IU/ML	5.300000e-01
95	IU/ML	6.205949e+00
96	IU/ML	4.679535e+00
97	IU/ML	5.300000e-01
98	IU/ML	6.205949e+00
99	IU/ML	4.679535e+00
100	IU/ML	5.300000e-01
101	IU/ML	6.205949e+00
102	IU/ML	4.679535e+00

103	IU/ML	5.300000e-01
104	IU/ML	6.205949e+00
105	IU/ML	4.679535e+00
106	IU/ML	5.300000e-01
107	IU/ML	6.205949e+00
108	IU/ML	4.679535e+00
109	IU/ML	5.300000e-01
110	IU/ML	6.205949e+00
111	IU/ML	4.679535e+00
112	IU/ML	5.300000e-01
113	IU/ML	6.205949e+00
114	IU/ML	4.679535e+00
115	IU/ML	5.300000e-01
116	IU/ML	6.205949e+00
117	IU/ML	4.679535e+00
118	IU/ML	5.300000e-01
119	IU/ML	6.205949e+00
120	IU/ML	4.679535e+00
121	IU/ML	5.300000e-01
122	IU/ML	6.205949e+00
123	IU/ML	4.679535e+00
124	IU/ML	5.300000e-01
125	IU/ML	6.205949e+00
126	IU/ML	4.679535e+00
127	IU/ML	5.300000e-01
128	IU/ML	6.205949e+00
129	IU/ML	4.679535e+00
130	IU/ML	5.300000e-01
131	IU/ML	6.205949e+00
132	IU/ML	4.679535e+00
133	IU/ML	5.300000e-01
134	IU/ML	6.205949e+00
135	IU/ML	4.679535e+00
136	IU/ML	5.300000e-01
137	IU/ML	6.205949e+00
138	IU/ML	4.679535e+00
139	IU/ML	5.300000e-01
140	IU/ML	6.205949e+00
141	IU/ML	4.679535e+00
142	IU/ML	5.300000e-01
143	IU/ML	6.205949e+00
144	IU/ML	4.679535e+00
145	IU/ML	5.300000e-01

146	IU/ML	6.205949e+00
147	IU/ML	4.679535e+00
148	IU/ML	5.300000e-01
149	IU/ML	6.205949e+00
150	IU/ML	4.679535e+00
151	IU/ML	5.300000e-01
152	IU/ML	6.205949e+00
153	IU/ML	4.679535e+00
154	IU/ML	5.300000e-01
155	IU/ML	6.205949e+00
156	IU/ML	4.679535e+00
157	IU/ML	5.300000e-01
158	IU/ML	6.205949e+00
159	IU/ML	4.679535e+00
160	IU/ML	5.300000e-01
161	IU/ML	6.205949e+00
162	IU/ML	4.679535e+00
163	IU/ML	5.300000e-01
164	IU/ML	6.205949e+00
165	IU/ML	4.679535e+00
166	IU/ML	5.300000e-01
167	IU/ML	6.205949e+00
168	IU/ML	4.679535e+00
169	IU/ML	5.300000e-01
170	IU/ML	6.205949e+00
171	IU/ML	4.679535e+00
172	IU/ML	5.300000e-01
173	IU/ML	6.205949e+00
174	IU/ML	4.679535e+00
175	IU/ML	5.300000e-01
176	IU/ML	6.205949e+00
177	IU/ML	4.679535e+00
178	IU/ML	5.300000e-01
179	IU/ML	6.205949e+00
180	IU/ML	4.679535e+00
181	IU/ML	5.300000e-01
182	IU/ML	6.205949e+00
183	IU/ML	4.679535e+00
184	IU/ML	5.300000e-01
185	IU/ML	6.205949e+00
186	IU/ML	4.679535e+00
187	IU/ML	5.300000e-01
188	IU/ML	6.205949e+00

189	IU/ML	4.679535e+00
190	IU/ML	5.300000e-01
191	IU/ML	6.205949e+00
192	IU/ML	4.679535e+00
193	IU/ML	5.300000e-01
194	IU/ML	6.205949e+00
195	IU/ML	4.679535e+00
196	IU/ML	5.300000e-01
197	IU/ML	6.205949e+00
198	IU/ML	4.679535e+00
199	IU/ML	5.300000e-01
200	IU/ML	6.205949e+00
201	IU/ML	4.679535e+00
202	IU/ML	5.300000e-01
203	IU/ML	6.205949e+00
204	IU/ML	4.679535e+00
205	IU/ML	5.300000e-01
206	IU/ML	6.205949e+00
207	IU/ML	4.679535e+00
208	IU/ML	5.300000e-01
209	IU/ML	6.205949e+00
210	IU/ML	4.679535e+00
211	IU/ML	5.300000e-01
212	IU/ML	6.205949e+00
213	IU/ML	4.679535e+00
214	IU/ML	5.300000e-01
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221	IU/ML	6.205949e+00
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733	IU/ML	5.300000e-01
734	IU/ML	6.205949e+00
735	IU/ML	4.679535e+00
736	IU/ML	5.300000e-01
737	IU/ML	6.205949e+00
738	IU/ML	4.679535e+00
739	IU/ML	5.300000e-01
740	IU/ML	6.205949e+00
741	IU/ML	4.679535e+00
742	IU/ML	5.300000e-01
743	IU/ML	6.205949e+00
744	IU/ML	4.679535e+00
745	IU/ML	5.300000e-01
746	IU/ML	6.205949e+00
747	IU/ML	4.679535e+00

748	IU/ML	5.300000e-01
749	IU/ML	6.205949e+00
750	IU/ML	4.679535e+00
751	IU/ML	5.300000e-01
752	IU/ML	6.205949e+00
753	IU/ML	4.679535e+00
754	IU/ML	5.300000e-01
755	IU/ML	6.205949e+00
756	IU/ML	4.679535e+00
757	IU/ML	5.300000e-01
758	IU/ML	6.205949e+00
759	IU/ML	4.679535e+00
760	IU/ML	5.300000e-01
761	IU/ML	6.205949e+00
762	IU/ML	4.679535e+00
763	IU/ML	5.300000e-01
764	IU/ML	6.205949e+00
765	IU/ML	4.679535e+00
766	IU/ML	5.300000e-01
767	IU/ML	6.205949e+00
768	IU/ML	4.679535e+00
769	IU/ML	5.300000e-01
770	IU/ML	6.205949e+00
771	IU/ML	4.679535e+00
772	IU/ML	5.300000e-01
773	IU/ML	6.205949e+00
774	IU/ML	4.679535e+00
775	IU/ML	5.300000e-01
776	IU/ML	6.205949e+00
777	IU/ML	4.679535e+00
778	IU/ML	5.300000e-01
779	IU/ML	6.205949e+00
780	IU/ML	4.679535e+00
781	IU/ML	5.300000e-01
782	IU/ML	6.205949e+00
783	IU/ML	4.679535e+00
784	IU/ML	5.300000e-01
785	IU/ML	6.205949e+00
786	IU/ML	4.679535e+00
787	IU/ML	5.300000e-01
788	IU/ML	6.205949e+00
789	IU/ML	4.679535e+00
790	IU/ML	5.300000e-01

791	IU/ML	6.205949e+00
792	IU/ML	4.679535e+00
793	IU/ML	5.300000e-01
794	IU/ML	6.205949e+00
795	IU/ML	4.679535e+00
796	IU/ML	5.300000e-01
797	IU/ML	6.205949e+00
798	IU/ML	4.679535e+00
799	IU/ML	5.300000e-01
800	IU/ML	6.205949e+00
801	IU/ML	4.679535e+00
802	IU/ML	5.300000e-01
803	IU/ML	6.205949e+00
804	IU/ML	4.679535e+00
805	IU/ML	5.300000e-01
806	IU/ML	6.205949e+00
807	IU/ML	4.679535e+00
808	IU/ML	5.300000e-01
809	IU/ML	6.205949e+00
810	IU/ML	4.679535e+00
811	IU/ML	5.300000e-01
812	IU/ML	6.205949e+00
813	IU/ML	4.679535e+00
814	IU/ML	5.300000e-01
815	IU/ML	6.205949e+00
816	IU/ML	4.679535e+00
817	IU/ML	5.300000e-01
818	IU/ML	6.205949e+00
819	IU/ML	4.679535e+00
820	IU/ML	5.300000e-01
821	IU/ML	6.205949e+00
822	IU/ML	4.679535e+00
823	IU/ML	5.300000e-01
824	IU/ML	6.205949e+00
825	IU/ML	4.679535e+00
826	IU/ML	5.300000e-01
827	IU/ML	6.205949e+00
828	IU/ML	4.679535e+00
829	IU/ML	5.300000e-01
830	IU/ML	6.205949e+00
831	IU/ML	4.679535e+00
832	IU/ML	5.300000e-01
833	IU/ML	6.205949e+00

834	IU/ML	4.679535e+00
835	IU/ML	5.300000e-01
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837	IU/ML	4.679535e+00
838	IU/ML	5.300000e-01
839	IU/ML	6.205949e+00
840	IU/ML	4.679535e+00
841	IU/ML	5.300000e-01
842	IU/ML	6.205949e+00
843	IU/ML	4.679535e+00
844	IU/ML	5.300000e-01
845	IU/ML	6.205949e+00
846	IU/ML	4.679535e+00
847	IU/ML	5.300000e-01
848	IU/ML	6.205949e+00
849	IU/ML	4.679535e+00
850	IU/ML	5.300000e-01
851	IU/ML	6.205949e+00
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865	IU/ML	5.300000e-01
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867	IU/ML	4.679535e+00
868	IU/ML	5.300000e-01
869	IU/ML	6.205949e+00
870	IU/ML	4.679535e+00
871	IU/ML	5.300000e-01
872	IU/ML	6.205949e+00
873	IU/ML	4.679535e+00
874	IU/ML	5.300000e-01
875	IU/ML	6.205949e+00
876	IU/ML	4.679535e+00

877	IU/ML	5.300000e-01
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879	IU/ML	4.679535e+00
880	IU/ML	5.300000e-01
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882	IU/ML	4.679535e+00
883	IU/ML	5.300000e-01
884	IU/ML	6.205949e+00
885	IU/ML	4.679535e+00
886	IU/ML	5.300000e-01
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888	IU/ML	4.679535e+00
889	IU/ML	5.300000e-01
890	IU/ML	6.205949e+00
891	IU/ML	4.679535e+00
892	IU/ML	5.300000e-01
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894	IU/ML	4.679535e+00
895	IU/ML	5.300000e-01
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898	IU/ML	5.300000e-01
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907	IU/ML	5.300000e-01
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910	IU/ML	5.300000e-01
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919	IU/ML	5.300000e-01

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928	IU/ML	5.300000e-01
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930	IU/ML	4.679535e+00
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937	IU/ML	5.300000e-01
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939	IU/ML	4.679535e+00
940	IU/ML	5.300000e-01
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942	IU/ML	4.679535e+00
943	IU/ML	5.300000e-01
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949	IU/ML	5.300000e-01
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951	IU/ML	4.679535e+00
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954	IU/ML	4.679535e+00
955	IU/ML	5.300000e-01
956	IU/ML	6.205949e+00
957	IU/ML	4.679535e+00
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987	IU/ML	4.679535e+00
988	IU/ML	5.300000e-01
989	IU/ML	6.205949e+00
990	IU/ML	4.679535e+00
991	IU/ML	5.300000e-01
992	IU/ML	6.205949e+00
993	IU/ML	4.679535e+00
994	IU/ML	5.300000e-01
995	IU/ML	6.205949e+00
996	IU/ML	4.679535e+00
997	IU/ML	5.300000e-01
998	IU/ML	6.205949e+00
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1002	IU/ML	4.679535e+00
1003	IU/ML	5.300000e-01
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1005	IU/ML	4.679535e+00

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1007	IU/ML	6.205949e+00
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1012	IU/ML	5.300000e-01
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1014	IU/ML	4.679535e+00
1015	IU/ML	5.300000e-01
1016	IU/ML	6.205949e+00
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1018	IU/ML	5.300000e-01
1019	IU/ML	6.205949e+00
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1021	IU/ML	5.300000e-01
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1027	IU/ML	5.300000e-01
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1087	IU/ML	5.300000e-01
1088	IU/ML	6.205949e+00
1089	IU/ML	4.679535e+00
1090	IU/ML	5.300000e-01
1091	IU/ML	6.205949e+00

1092	IU/ML	4.679535e+00
1093	IU/ML	5.300000e-01
1094	IU/ML	6.205949e+00
1095	IU/ML	4.679535e+00
1096	IU/ML	5.300000e-01
1097	IU/ML	6.205949e+00
1098	IU/ML	4.679535e+00
1099	IU/ML	5.300000e-01
1100	IU/ML	6.205949e+00
1101	IU/ML	4.679535e+00
1102	IU/ML	5.300000e-01
1103	IU/ML	6.205949e+00
1104	IU/ML	4.679535e+00
1105	IU/ML	5.300000e-01
1106	IU/ML	6.205949e+00
1107	IU/ML	4.679535e+00
1108	IU/ML	5.300000e-01
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1118	IU/ML	6.205949e+00
1119	IU/ML	4.679535e+00
1120	IU/ML	5.300000e-01
1121	IU/ML	6.205949e+00
1122	IU/ML	4.679535e+00
1123	IU/ML	5.300000e-01
1124	IU/ML	6.205949e+00
1125	IU/ML	4.679535e+00
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1127	IU/ML	6.205949e+00
1128	IU/ML	4.679535e+00
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1156	IU/ML	5.300000e-01
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1176	IU/ML	4.679535e+00
1177	IU/ML	5.300000e-01

1178	IU/ML	6.205949e+00
1179	IU/ML	4.679535e+00
1180	IU/ML	5.300000e-01
1181	IU/ML	6.205949e+00
1182	IU/ML	4.679535e+00
1183	MFI	5.022639e+02
1184	MFI	2.448250e+03
1185	MFI	7.071092e+00
1186	MFI	1.387596e+01
1187	MFI	2.557147e+03
1188	MFI	5.197441e+00
1189	MFI	7.311235e+01
1190	MFI	5.022639e+02
1191	MFI	2.448250e+03
1192	MFI	7.071092e+00
1193	MFI	1.387596e+01
1194	MFI	2.557147e+03
1195	MFI	5.197441e+00
1196	MFI	7.311235e+01
1197	MFI	5.022639e+02
1198	MFI	2.448250e+03
1199	MFI	7.071092e+00
1200	MFI	1.387596e+01
1201	MFI	2.557147e+03
1202	MFI	5.197441e+00
1203	MFI	7.311235e+01
1204	MFI	5.022639e+02
1205	MFI	2.448250e+03
1206	MFI	7.071092e+00
1207	MFI	1.387596e+01
1208	MFI	2.557147e+03
1209	MFI	5.197441e+00
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1211	MFI	5.022639e+02
1212	MFI	2.448250e+03
1213	MFI	7.071092e+00
1214	MFI	1.387596e+01
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1218	MFI	5.022639e+02
1219	MFI	2.448250e+03
1220	MFI	7.071092e+00

1221	MFI	1.387596e+01
1222	MFI	2.557147e+03
1223	MFI	5.197441e+00
1224	MFI	7.311235e+01
1225	MFI	5.022639e+02
1226	MFI	2.448250e+03
1227	MFI	7.071092e+00
1228	MFI	1.387596e+01
1229	MFI	2.557147e+03
1230	MFI	5.197441e+00
1231	MFI	7.311235e+01
1232	MFI	5.022639e+02
1233	MFI	2.448250e+03
1234	MFI	7.071092e+00
1235	MFI	1.387596e+01
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4389	MFI	1.734699e-02
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4396	MFI	1.734699e-02
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4445	MFI	1.734699e-02

4446	MFI	2.725989e-03
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4495	MFI	2.725989e-03
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4508	MFI	1.734699e-02
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4525	MFI	1.920585e-02
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4527	MFI	2.503477e-01
4528	MFI	7.064341e-03
4529	MFI	1.734699e-02
4530	MFI	2.725989e-03
4531	MFI	1.223700e-02

```

4532 MFI 1.920585e-02
4533 MFI 5.062431e-02
4534 MFI 2.503477e-01
4535 MFI 7.064341e-03
4536 MFI 1.734699e-02
4537 MFI 2.725989e-03
4538 MFI 1.223700e-02
4539 MFI 1.920585e-02
4540 MFI 5.062431e-02
4541 MFI 2.503477e-01
4542 MFI 7.064341e-03
4543 MFI 1.734699e-02
4544 MFI 2.725989e-03
4545 MFI 1.223700e-02
[ reached 'max' / getOption("max.print") -- omitted 2720 rows ]

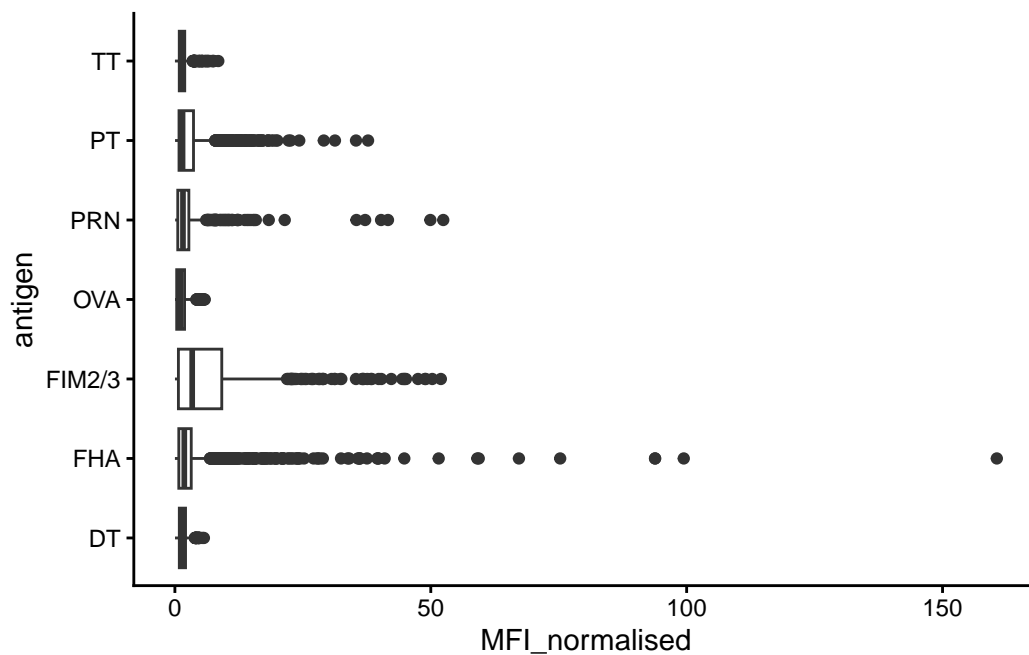
```

Plot of antigen levels again but for IgG only

```

igg_dataplot <- ggplot(igg_data) +
  aes(x=MFI_normalised, y=antigen) +
  geom_boxplot() +
  theme_classic()
igg_dataplot

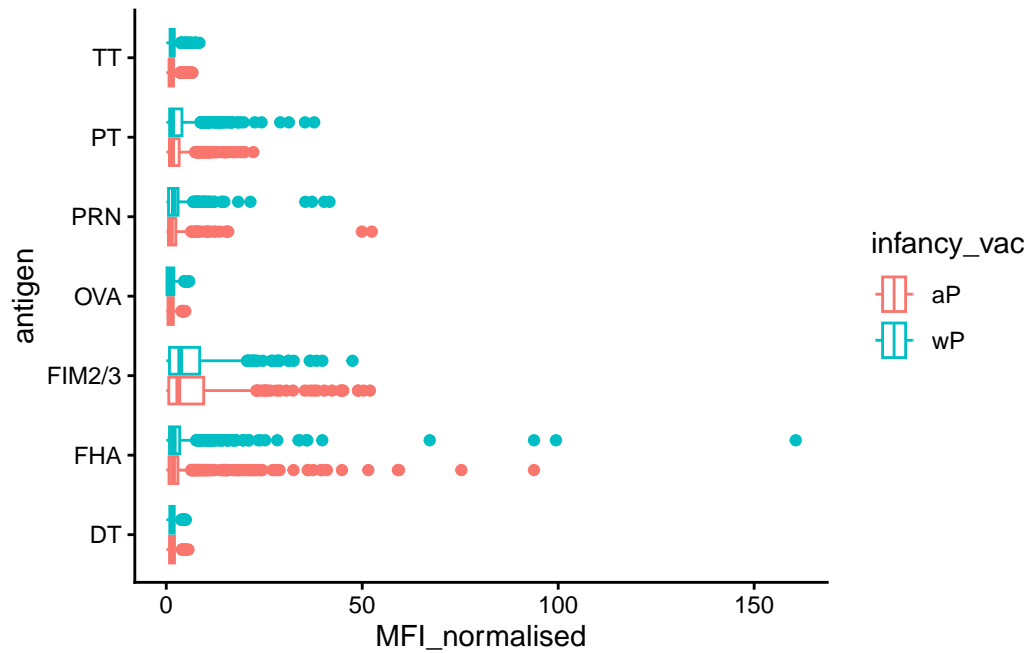
```



Differences between aP and wP?

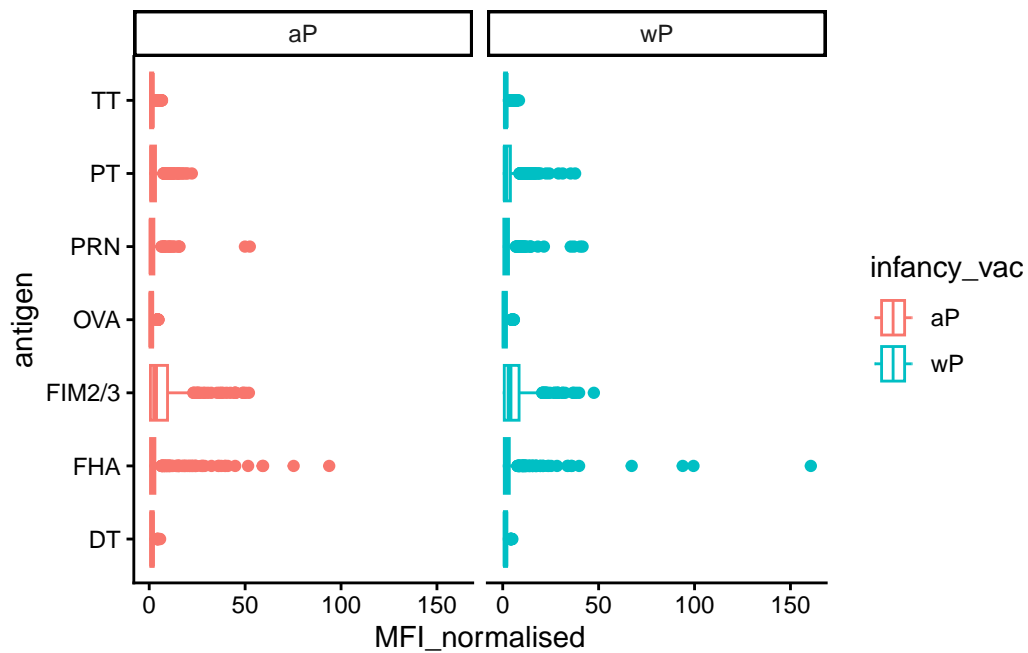
We can color up by the `infancy_vac` values of “wP” or “aP”

```
igg_dataplot +  
  aes(color=infancy_vac)
```



We could “facet” by the “aP” vs “wP” column

```
igg_dataplot +  
  aes(color=infancy_vac) +  
  facet_wrap(~infancy_vac)
```

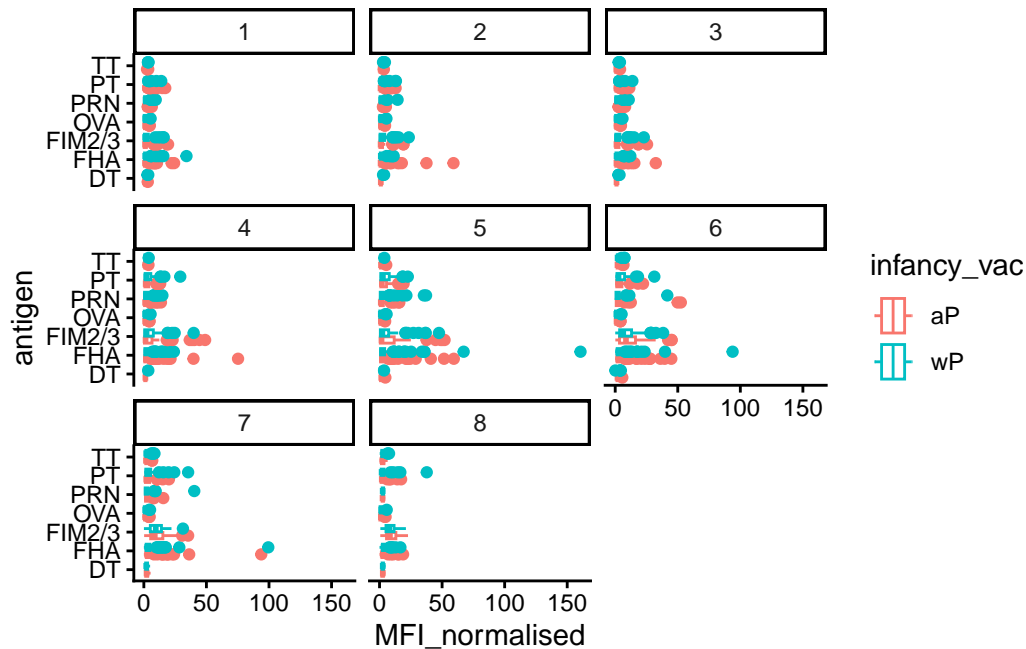


Time course analysis

Q13. Complete the following code to make a summary boxplot of Ab titer levels (MFI) for all antigens:

We can use `visit` as a proxy for time here and facet our plots by this value 1 to 8...

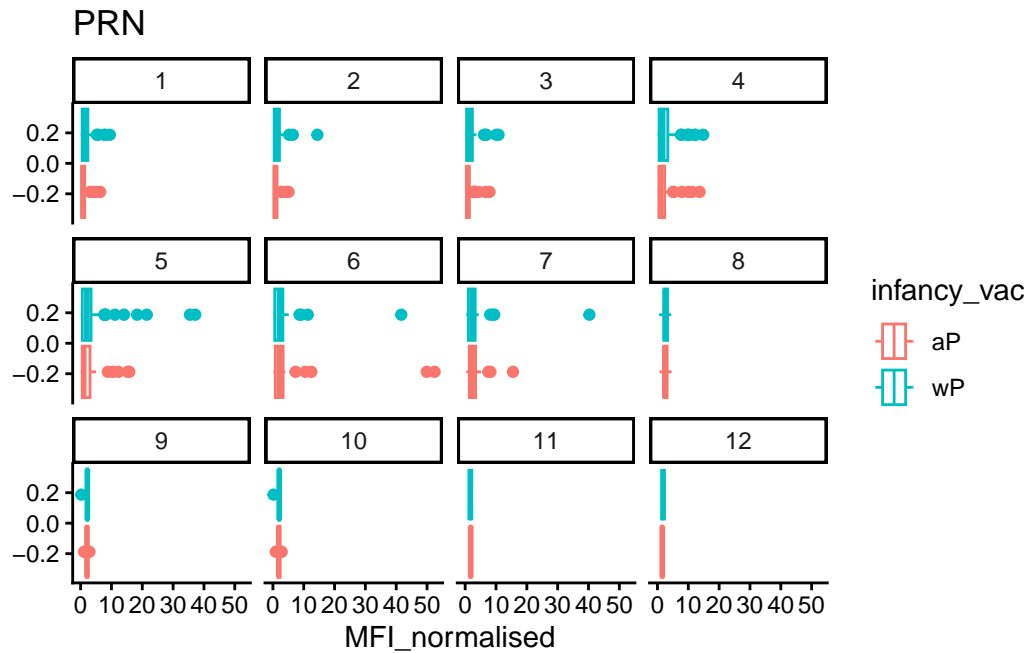
```
igg_data |>
  filter(visit %in% 1:8) |>
  ggplot() +
    aes(x=MFI_normalised,y=antigen,color=infancy_vac) +
    facet_wrap(~visit) +
    geom_boxplot() +
    theme_classic()
```

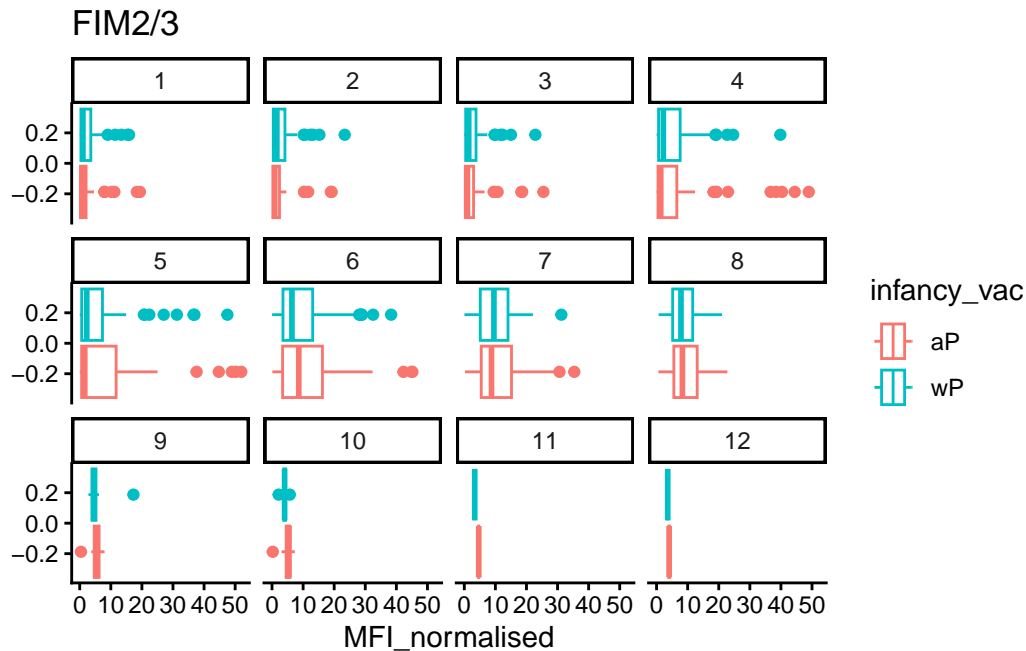
Q14. What antigens show differences in the level of IgG antibody titers recognizing them over time? Why these and not others?

Q15. Filter to pull out only two specific antigens for analysis and create a boxplot for each. You can choose any you like. Below I picked a “control” antigen (“OVA”, that is not in our vaccines) and a clear antigen of interest (“PT”, Pertussis Toxin, one of the key virulence factors produced by the bacterium *B. pertussis*).

```
library(dplyr)
filter(igg_data, antigen=="PRN") %>%
  ggplot() +
  aes(MFI_normalised, col=infancy_vac) +
  geom_boxplot(show.legend = TRUE) +
  facet_wrap(vars(visit)) +
  theme_classic() +
  labs(title="PRN")
```



```
filter(igg_data, antigen=="FIM2/3") %>%
  ggplot() +
  aes(MFI_normalised, col=infancy_vac) +
  geom_boxplot(show.legend = TRUE) +
  facet_wrap(vars(visit)) +
  theme_classic() +
  labs(title="FIM2/3")
```



Q16. What do you notice about these two antigens time courses and the PT data in particular?

Of the data presented in the example: PT levels overtime rise and exceed OVA. In this dataset, FIM levels start out large but drop significantly more than PRN (this could be because FIM just had a greater range of values than PRN.)

Q17. Do you see any clear difference in aP vs. wP responses?

PRN: Responses about the same FIM: For most part, aP > wP.

Time course of PT (Virulence Factor: Pertussis Toxin)

```
pt_2020 <- igg_data |>
  filter(antigen == "PT") |>
  filter(dataset == "2020_dataset")
pt_2021 <- igg_data |>
  filter(antigen == "PT") |>
  filter(dataset == "2021_dataset")

pt_2020
```

	subject_id	infancy_vac	biological_sex	ethnicity
1	1	wP	Female Not Hispanic or Latino	
2	1	wP	Female Not Hispanic or Latino	
3	1	wP	Female Not Hispanic or Latino	
4	1	wP	Female Not Hispanic or Latino	
5	1	wP	Female Not Hispanic or Latino	
6	1	wP	Female Not Hispanic or Latino	
7	1	wP	Female Not Hispanic or Latino	
8	3	wP	Female	Unknown
9	3	wP	Female	Unknown
10	3	wP	Female	Unknown
11	3	wP	Female	Unknown
12	3	wP	Female	Unknown
13	3	wP	Female	Unknown
14	3	wP	Female	Unknown
15	4	wP	Male Not Hispanic or Latino	
16	4	wP	Male Not Hispanic or Latino	
17	4	wP	Male Not Hispanic or Latino	
18	4	wP	Male Not Hispanic or Latino	
19	4	wP	Male Not Hispanic or Latino	
20	4	wP	Male Not Hispanic or Latino	
21	4	wP	Male Not Hispanic or Latino	
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23	5	wP	Male Not Hispanic or Latino	
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25	5	wP	Male Not Hispanic or Latino	
26	5	wP	Male Not Hispanic or Latino	
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30	6	wP	Female Not Hispanic or Latino	
31	6	wP	Female Not Hispanic or Latino	
32	6	wP	Female Not Hispanic or Latino	
33	6	wP	Female Not Hispanic or Latino	
34	6	wP	Female Not Hispanic or Latino	
35	6	wP	Female Not Hispanic or Latino	
36	7	wP	Female Hispanic or Latino	
37	7	wP	Female Hispanic or Latino	
38	7	wP	Female Hispanic or Latino	
39	7	wP	Female Hispanic or Latino	
40	7	wP	Female Hispanic or Latino	
41	7	wP	Female Hispanic or Latino	
42	7	wP	Female Hispanic or Latino	

43	9	aP	Male Not Hispanic or Latino
44	9	aP	Male Not Hispanic or Latino
45	9	aP	Male Not Hispanic or Latino
46	9	aP	Male Not Hispanic or Latino
47	9	aP	Male Not Hispanic or Latino
48	9	aP	Male Not Hispanic or Latino
49	9	aP	Male Not Hispanic or Latino
50	10	wP	Female Not Hispanic or Latino
51	10	wP	Female Not Hispanic or Latino
52	10	wP	Female Not Hispanic or Latino
53	10	wP	Female Not Hispanic or Latino
54	10	wP	Female Not Hispanic or Latino
55	10	wP	Female Not Hispanic or Latino
56	11	wP	Female Hispanic or Latino
57	11	wP	Female Hispanic or Latino
58	11	wP	Female Hispanic or Latino
59	11	wP	Female Hispanic or Latino
60	11	wP	Female Hispanic or Latino
61	11	wP	Female Hispanic or Latino
62	11	wP	Female Hispanic or Latino
63	12	wP	Male Not Hispanic or Latino
64	12	wP	Male Not Hispanic or Latino
65	12	wP	Male Not Hispanic or Latino
66	12	wP	Male Not Hispanic or Latino
67	12	wP	Male Not Hispanic or Latino
68	12	wP	Male Not Hispanic or Latino
69	13	aP	Male Not Hispanic or Latino
70	13	aP	Male Not Hispanic or Latino
71	13	aP	Male Not Hispanic or Latino
72	13	aP	Male Not Hispanic or Latino
73	13	aP	Male Not Hispanic or Latino
74	13	aP	Male Not Hispanic or Latino
75	13	aP	Male Not Hispanic or Latino
76	14	wP	Male Not Hispanic or Latino
77	14	wP	Male Not Hispanic or Latino
78	14	wP	Male Not Hispanic or Latino
79	14	wP	Male Not Hispanic or Latino
80	14	wP	Male Not Hispanic or Latino
81	15	wP	Male Not Hispanic or Latino
82	15	wP	Male Not Hispanic or Latino
83	15	wP	Male Not Hispanic or Latino
84	15	wP	Male Not Hispanic or Latino
85	15	wP	Male Not Hispanic or Latino

86	15	wP	Male Not Hispanic or Latino
87	15	wP	Male Not Hispanic or Latino
88	16	wP	Female Hispanic or Latino
89	16	wP	Female Hispanic or Latino
90	16	wP	Female Hispanic or Latino
91	16	wP	Female Hispanic or Latino
92	16	wP	Female Hispanic or Latino
93	16	wP	Female Hispanic or Latino
94	16	wP	Female Hispanic or Latino
95	17	wP	Female Hispanic or Latino
96	17	wP	Female Hispanic or Latino
97	17	wP	Female Hispanic or Latino
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99	17	wP	Female Hispanic or Latino
100	17	wP	Female Hispanic or Latino
101	17	wP	Female Hispanic or Latino
102	18	aP	Female Hispanic or Latino
103	18	aP	Female Hispanic or Latino
104	18	aP	Female Hispanic or Latino
105	18	aP	Female Hispanic or Latino
106	18	aP	Female Hispanic or Latino
107	18	aP	Female Hispanic or Latino
108	18	aP	Female Hispanic or Latino
109	19	wP	Male Not Hispanic or Latino
110	19	wP	Male Not Hispanic or Latino
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112	19	wP	Male Not Hispanic or Latino
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172	28	wP	Male	Unknown
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182	29	aP	Male	Hispanic or Latino
183	29	aP	Male	Hispanic or Latino
184	29	aP	Male	Hispanic or Latino
185	29	aP	Male	Hispanic or Latino
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191	30	wP	Female	Hispanic or Latino
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387	59	aP	Female	Hispanic or Latino
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2			White	1986-01-01 2016-09-12
3			White	1986-01-01 2016-09-12
4			White	1986-01-01 2016-09-12
5			White	1986-01-01 2016-09-12
6			White	1986-01-01 2016-09-12
7			White	1986-01-01 2016-09-12
8			White	1983-01-01 2016-10-10
9			White	1983-01-01 2016-10-10
10			White	1983-01-01 2016-10-10
11			White	1983-01-01 2016-10-10
12			White	1983-01-01 2016-10-10
13			White	1983-01-01 2016-10-10
14			White	1983-01-01 2016-10-10
15			Asian	1988-01-01 2016-08-29
16			Asian	1988-01-01 2016-08-29
17			Asian	1988-01-01 2016-08-29
18			Asian	1988-01-01 2016-08-29
19			Asian	1988-01-01 2016-08-29
20			Asian	1988-01-01 2016-08-29
21			Asian	1988-01-01 2016-08-29
22			Asian	1991-01-01 2016-08-29
23			Asian	1991-01-01 2016-08-29
24			Asian	1991-01-01 2016-08-29
25			Asian	1991-01-01 2016-08-29
26			Asian	1991-01-01 2016-08-29
27			Asian	1991-01-01 2016-08-29
28			Asian	1991-01-01 2016-08-29
29			White	1988-01-01 2016-10-10
30			White	1988-01-01 2016-10-10
31			White	1988-01-01 2016-10-10
32			White	1988-01-01 2016-10-10
33			White	1988-01-01 2016-10-10
34			White	1988-01-01 2016-10-10

35	White	1988-01-01	2016-10-10
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37	More Than One Race	1981-01-01	2016-11-07
38	More Than One Race	1981-01-01	2016-11-07
39	More Than One Race	1981-01-01	2016-11-07
40	More Than One Race	1981-01-01	2016-11-07
41	More Than One Race	1981-01-01	2016-11-07
42	More Than One Race	1981-01-01	2016-11-07
43	Asian	1996-01-01	2016-07-25
44	Asian	1996-01-01	2016-07-25
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46	Asian	1996-01-01	2016-07-25
47	Asian	1996-01-01	2016-07-25
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49	Asian	1996-01-01	2016-07-25
50	Asian	1982-01-01	2016-07-25
51	Asian	1982-01-01	2016-07-25
52	Asian	1982-01-01	2016-07-25
53	Asian	1982-01-01	2016-07-25
54	Asian	1982-01-01	2016-07-25
55	Asian	1982-01-01	2016-07-25
56	Unknown or Not Reported	1986-01-01	2016-08-29
57	Unknown or Not Reported	1986-01-01	2016-08-29
58	Unknown or Not Reported	1986-01-01	2016-08-29
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61	Unknown or Not Reported	1986-01-01	2016-08-29
62	Unknown or Not Reported	1986-01-01	2016-08-29
63	Asian	1982-01-01	2016-07-25
64	Asian	1982-01-01	2016-07-25
65	Asian	1982-01-01	2016-07-25
66	Asian	1982-01-01	2016-07-25
67	Asian	1982-01-01	2016-07-25
68	Asian	1982-01-01	2016-07-25
69	White	1997-01-01	2016-07-25
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73	White	1997-01-01	2016-07-25
74	White	1997-01-01	2016-07-25
75	White	1997-01-01	2016-07-25
76	White	1993-01-01	2016-08-15
77	White	1993-01-01	2016-08-15

78		White	1993-01-01	2016-08-15
79		White	1993-01-01	2016-08-15
80		White	1993-01-01	2016-08-15
81		Asian	1989-01-01	2016-08-15
82		Asian	1989-01-01	2016-08-15
83		Asian	1989-01-01	2016-08-15
84		Asian	1989-01-01	2016-08-15
85		Asian	1989-01-01	2016-08-15
86		Asian	1989-01-01	2016-08-15
87		Asian	1989-01-01	2016-08-15
88	Unknown or Not Reported		1987-01-01	2016-07-25
89	Unknown or Not Reported		1987-01-01	2016-07-25
90	Unknown or Not Reported		1987-01-01	2016-07-25
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93	Unknown or Not Reported		1987-01-01	2016-07-25
94	Unknown or Not Reported		1987-01-01	2016-07-25
95		White	1980-01-01	2016-09-12
96		White	1980-01-01	2016-09-12
97		White	1980-01-01	2016-09-12
98		White	1980-01-01	2016-09-12
99		White	1980-01-01	2016-09-12
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101		White	1980-01-01	2016-09-12
102	Unknown or Not Reported		1997-01-01	2016-08-29
103	Unknown or Not Reported		1997-01-01	2016-08-29
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107	Unknown or Not Reported		1997-01-01	2016-08-29
108	Unknown or Not Reported		1997-01-01	2016-08-29
109		Asian	1994-01-01	2016-09-26
110		Asian	1994-01-01	2016-09-26
111		Asian	1994-01-01	2016-09-26
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115		Asian	1994-01-01	2016-09-26
116		White	1981-01-01	2016-08-29
117		White	1981-01-01	2016-08-29
118		White	1981-01-01	2016-08-29
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136		White	1985-01-01	2016-08-29
137		White	1991-01-01	2016-09-26
138		White	1991-01-01	2016-09-26
139		White	1991-01-01	2016-09-26
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141		White	1991-01-01	2016-09-26
142		White	1991-01-01	2016-09-26
143		White	1991-01-01	2016-09-26
144		Asian	1992-01-01	2016-09-13
145		Asian	1992-01-01	2016-09-13
146		Asian	1992-01-01	2016-09-13
147		Asian	1992-01-01	2016-09-13
148		Asian	1992-01-01	2016-09-13
149		Asian	1992-01-01	2016-09-13
150		Asian	1992-01-01	2016-09-13
151	Black or African American		1988-01-01	2016-09-13
152	Black or African American		1988-01-01	2016-09-13
153	Black or African American		1988-01-01	2016-09-13
154	Black or African American		1988-01-01	2016-09-13
155	Black or African American		1988-01-01	2016-09-13
156	Black or African American		1988-01-01	2016-09-13
157	Black or African American		1988-01-01	2016-09-13
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159	Unknown or Not Reported		1983-01-01	2016-09-26
160	Unknown or Not Reported		1983-01-01	2016-09-26
161	Unknown or Not Reported		1983-01-01	2016-09-26
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163	Unknown or Not Reported		1983-01-01	2016-09-26

164	Unknown or Not Reported	1983-01-01	2016-09-26
165	Asian	1997-01-01	2016-09-26
166	Asian	1997-01-01	2016-09-26
167	Asian	1997-01-01	2016-09-26
168	Asian	1997-01-01	2016-09-26
169	Asian	1997-01-01	2016-09-26
170	Asian	1997-01-01	2016-09-26
171	Asian	1997-01-01	2016-09-26
172	Unknown or Not Reported	1982-01-01	2016-09-26
173	Unknown or Not Reported	1982-01-01	2016-09-26
174	Unknown or Not Reported	1982-01-01	2016-09-26
175	Unknown or Not Reported	1982-01-01	2016-09-26
176	Unknown or Not Reported	1982-01-01	2016-09-26
177	Unknown or Not Reported	1982-01-01	2016-09-26
178	Unknown or Not Reported	1982-01-01	2016-09-26
179	White	1997-01-01	2016-09-26
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182	White	1997-01-01	2016-09-26
183	White	1997-01-01	2016-09-26
184	White	1997-01-01	2016-09-26
185	White	1997-01-01	2016-09-26
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187	White	1988-01-01	2016-09-26
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189	White	1988-01-01	2016-09-26
190	White	1988-01-01	2016-09-26
191	White	1988-01-01	2016-09-26
192	White	1988-01-01	2016-09-26
193	Asian	1989-01-01	2016-09-26
194	Asian	1989-01-01	2016-09-26
195	Asian	1989-01-01	2016-09-26
196	Asian	1989-01-01	2016-09-26
197	Asian	1989-01-01	2016-09-26
198	Asian	1989-01-01	2016-09-26
199	Asian	1989-01-01	2016-09-26
200	Native Hawaiian or Other Pacific Islander	1997-01-01	2016-10-24
201	Native Hawaiian or Other Pacific Islander	1997-01-01	2016-10-24
202	Native Hawaiian or Other Pacific Islander	1997-01-01	2016-10-24
203	Native Hawaiian or Other Pacific Islander	1997-01-01	2016-10-24
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206	Native Hawaiian or Other Pacific Islander	1997-01-01	2016-10-24

207	More Than One Race	1990-01-01	2016-10-10
208	More Than One Race	1990-01-01	2016-10-10
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212	More Than One Race	1990-01-01	2016-10-10
213	More Than One Race	1990-01-01	2016-10-10
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215	Unknown or Not Reported	1983-01-01	2016-10-24
216	Unknown or Not Reported	1983-01-01	2016-10-24
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223	White	1991-01-01	2016-10-10
224	White	1991-01-01	2016-10-10
225	White	1991-01-01	2016-10-10
226	White	1991-01-01	2016-10-10
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228	White	1997-01-01	2016-10-24
229	White	1997-01-01	2016-10-24
230	White	1997-01-01	2016-10-24
231	White	1997-01-01	2016-10-24
232	White	1997-01-01	2016-10-24
233	White	1997-01-01	2016-10-24
234	More Than One Race	1998-01-01	2016-11-07
235	More Than One Race	1998-01-01	2016-11-07
236	More Than One Race	1998-01-01	2016-11-07
237	More Than One Race	1998-01-01	2016-11-07
238	More Than One Race	1998-01-01	2016-11-07
239	White	1997-01-01	2016-10-24
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243	White	1997-01-01	2016-10-24
244	White	1997-01-01	2016-10-24
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250		White	1985-01-01	2016-10-24
251		White	1985-01-01	2016-10-24
252		White	1985-01-01	2016-10-24
253		Asian	1994-01-01	2016-10-24
254		Asian	1994-01-01	2016-10-24
255		Asian	1994-01-01	2016-10-24
256		Asian	1994-01-01	2016-10-24
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259		Asian	1994-01-01	2016-10-24
260		White	1985-01-01	2016-11-07
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265		White	1985-01-01	2016-11-07
266		White	1985-01-01	2016-11-07
267		Asian	1997-01-01	2016-11-07
268		Asian	1997-01-01	2016-11-07
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287	More Than One Race		1998-01-01	2016-11-07
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289		Asian	1997-01-01	2016-11-28
290		Asian	1997-01-01	2016-11-28
291		Asian	1997-01-01	2016-11-28
292		Asian	1997-01-01	2016-11-28

293	Asian	1997-01-01	2016-11-28
294	Unknown or Not Reported	1998-01-01	2016-11-07
295	Unknown or Not Reported	1998-01-01	2016-11-07
296	Unknown or Not Reported	1998-01-01	2016-11-07
297	Unknown or Not Reported	1998-01-01	2016-11-07
298	Unknown or Not Reported	1998-01-01	2016-11-07
299	White	1996-01-01	2016-11-28
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309	White	1998-01-01	2017-01-17
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317	White	1997-01-01	2017-01-17
318	White	1997-01-01	2017-01-17
319	White	1997-01-01	2017-01-17
320	Asian	1997-01-01	2016-11-28
321	Asian	1997-01-01	2016-11-28
322	Asian	1997-01-01	2016-11-28
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328	White	1997-01-01	2016-11-28
329	White	1997-01-01	2016-11-28
330	White	1997-01-01	2016-11-28
331	White	1997-01-01	2016-11-28
332	More Than One Race	1998-01-01	2017-01-03
333	More Than One Race	1998-01-01	2017-01-03
334	More Than One Race	1998-01-01	2017-01-03
335	More Than One Race	1998-01-01	2017-01-03

336	More Than One Race	1998-01-01	2017-01-03
337	More Than One Race	1998-01-01	2017-01-03
338	More Than One Race	1998-01-01	2017-01-03
339	Unknown or Not Reported	1998-01-01	2017-01-03
340	Unknown or Not Reported	1998-01-01	2017-01-03
341	Unknown or Not Reported	1998-01-01	2017-01-03
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343	Unknown or Not Reported	1998-01-01	2017-01-03
344	Unknown or Not Reported	1998-01-01	2017-01-03
345	Unknown or Not Reported	1998-01-01	2017-01-03
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347	Asian	1997-01-01	2017-01-17
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349	Asian	1997-01-01	2017-01-17
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353	Asian	1997-01-01	2017-01-17
354	Asian	1997-01-01	2017-01-17
355	Asian	1997-01-01	2017-01-17
356	Asian	1997-01-01	2017-01-17
357	Asian	1997-01-01	2017-01-17
358	Asian	1997-01-01	2017-01-17
359	Asian	1997-01-01	2017-01-17
360	Asian	1997-01-01	2017-01-30
361	Asian	1997-01-01	2017-01-30
362	Asian	1997-01-01	2017-01-30
363	Asian	1997-01-01	2017-01-30
364	Asian	1997-01-01	2017-01-30
365	Asian	1997-01-01	2017-01-30
366	Asian	1997-01-01	2017-01-30
367	Asian	1996-01-01	2017-01-30
368	Asian	1996-01-01	2017-01-30
369	Asian	1996-01-01	2017-01-30
370	Asian	1996-01-01	2017-01-30
371	Asian	1996-01-01	2017-01-30
372	Asian	1996-01-01	2017-01-30
373	Asian	1996-01-01	2017-01-30
374	Unknown or Not Reported	1997-01-01	2017-01-30
375	Unknown or Not Reported	1997-01-01	2017-01-30
376	Unknown or Not Reported	1997-01-01	2017-01-30
377	Unknown or Not Reported	1997-01-01	2017-01-30
378	Unknown or Not Reported	1997-01-01	2017-01-30

379	Unknown or Not Reported	1997-01-01	2017-01-30
380	Unknown or Not Reported	1997-01-01	2017-01-30
381	More Than One Race	1997-01-01	2017-01-30
382	More Than One Race	1997-01-01	2017-01-30
383	More Than One Race	1997-01-01	2017-01-30
384	More Than One Race	1997-01-01	2017-01-30
385	More Than One Race	1997-01-01	2017-01-30
386	More Than One Race	1997-01-01	2017-01-30
387	More Than One Race	1997-01-01	2017-01-30
388	White	1997-01-01	2017-01-30
389	White	1997-01-01	2017-01-30
390	White	1997-01-01	2017-01-30
391	White	1997-01-01	2017-01-30
392	White	1997-01-01	2017-01-30
393	White	1997-01-01	2017-01-30
394	White	1997-01-01	2017-01-30

	dataset	age	boost_age	specimen_id	actual_day_relative_to_boost
1	2020_dataset	14586 days	11212 days	1	-3
2	2020_dataset	14586 days	11212 days	2	1
3	2020_dataset	14586 days	11212 days	3	3
4	2020_dataset	14586 days	11212 days	4	7
5	2020_dataset	14586 days	11212 days	5	11
6	2020_dataset	14586 days	11212 days	6	32
7	2020_dataset	14586 days	11212 days	7	100
8	2020_dataset	15682 days	12336 days	19	-3
9	2020_dataset	15682 days	12336 days	20	1
10	2020_dataset	15682 days	12336 days	21	3
11	2020_dataset	15682 days	12336 days	22	7
12	2020_dataset	15682 days	12336 days	23	14
13	2020_dataset	15682 days	12336 days	24	30
14	2020_dataset	15682 days	12336 days	25	92
15	2020_dataset	13856 days	10468 days	27	-7
16	2020_dataset	13856 days	10468 days	28	1
17	2020_dataset	13856 days	10468 days	29	3
18	2020_dataset	13856 days	10468 days	30	8
19	2020_dataset	13856 days	10468 days	31	14
20	2020_dataset	13856 days	10468 days	32	32
21	2020_dataset	13856 days	10468 days	33	108
22	2020_dataset	12760 days	9372 days	37	-5
23	2020_dataset	12760 days	9372 days	38	1
24	2020_dataset	12760 days	9372 days	39	3
25	2020_dataset	12760 days	9372 days	40	8
26	2020_dataset	12760 days	9372 days	41	14

27	2020_dataset	12760	days	9372	days	42	30
28	2020_dataset	12760	days	9372	days	43	92
29	2020_dataset	13856	days	10510	days	45	-6
30	2020_dataset	13856	days	10510	days	46	1
31	2020_dataset	13856	days	10510	days	47	3
32	2020_dataset	13856	days	10510	days	48	7
33	2020_dataset	13856	days	10510	days	49	14
34	2020_dataset	13856	days	10510	days	50	31
35	2020_dataset	13856	days	10510	days	51	92
36	2020_dataset	16412	days	13094	days	55	-6
37	2020_dataset	16412	days	13094	days	56	3
38	2020_dataset	16412	days	13094	days	57	7
39	2020_dataset	16412	days	13094	days	58	14
40	2020_dataset	16412	days	13094	days	59	30
41	2020_dataset	16412	days	13094	days	60	100
42	2020_dataset	16412	days	13094	days	61	386
43	2020_dataset	10934	days	7511	days	70	-4
44	2020_dataset	10934	days	7511	days	71	1
45	2020_dataset	10934	days	7511	days	72	3
46	2020_dataset	10934	days	7511	days	73	7
47	2020_dataset	10934	days	7511	days	74	14
48	2020_dataset	10934	days	7511	days	75	30
49	2020_dataset	10934	days	7511	days	76	126
50	2020_dataset	16047	days	12624	days	77	-4
51	2020_dataset	16047	days	12624	days	78	1
52	2020_dataset	16047	days	12624	days	79	3
53	2020_dataset	16047	days	12624	days	80	7
54	2020_dataset	16047	days	12624	days	81	14
55	2020_dataset	16047	days	12624	days	82	31
56	2020_dataset	14586	days	11198	days	87	-12
57	2020_dataset	14586	days	11198	days	88	1
58	2020_dataset	14586	days	11198	days	89	3
59	2020_dataset	14586	days	11198	days	90	8
60	2020_dataset	14586	days	11198	days	91	14
61	2020_dataset	14586	days	11198	days	92	30
62	2020_dataset	14586	days	11198	days	93	91
63	2020_dataset	16047	days	12624	days	96	-4
64	2020_dataset	16047	days	12624	days	97	1
65	2020_dataset	16047	days	12624	days	98	3
66	2020_dataset	16047	days	12624	days	99	7
67	2020_dataset	16047	days	12624	days	100	14
68	2020_dataset	16047	days	12624	days	101	31
69	2020_dataset	10568	days	7145	days	102	0

70	2020_dataset	10568	days	7145	days	103	1
71	2020_dataset	10568	days	7145	days	104	3
72	2020_dataset	10568	days	7145	days	105	7
73	2020_dataset	10568	days	7145	days	106	14
74	2020_dataset	10568	days	7145	days	107	39
75	2020_dataset	10568	days	7145	days	108	126
76	2020_dataset	12029	days	8627	days	109	-5
77	2020_dataset	12029	days	8627	days	110	1
78	2020_dataset	12029	days	8627	days	111	3
79	2020_dataset	12029	days	8627	days	112	7
80	2020_dataset	12029	days	8627	days	113	14
81	2020_dataset	13490	days	10088	days	114	0
82	2020_dataset	13490	days	10088	days	115	1
83	2020_dataset	13490	days	10088	days	116	3
84	2020_dataset	13490	days	10088	days	117	7
85	2020_dataset	13490	days	10088	days	118	14
86	2020_dataset	13490	days	10088	days	119	31
87	2020_dataset	13490	days	10088	days	120	92
88	2020_dataset	14221	days	10798	days	121	0
89	2020_dataset	14221	days	10798	days	122	1
90	2020_dataset	14221	days	10798	days	123	3
91	2020_dataset	14221	days	10798	days	124	7
92	2020_dataset	14221	days	10798	days	125	14
93	2020_dataset	14221	days	10798	days	126	31
94	2020_dataset	14221	days	10798	days	127	92
95	2020_dataset	16778	days	13404	days	131	-40
96	2020_dataset	16778	days	13404	days	132	1
97	2020_dataset	16778	days	13404	days	133	3
98	2020_dataset	16778	days	13404	days	134	7
99	2020_dataset	16778	days	13404	days	135	14
100	2020_dataset	16778	days	13404	days	136	38
101	2020_dataset	16778	days	13404	days	137	91
102	2020_dataset	10568	days	7180	days	138	-12
103	2020_dataset	10568	days	7180	days	139	1
104	2020_dataset	10568	days	7180	days	140	3
105	2020_dataset	10568	days	7180	days	141	8
106	2020_dataset	10568	days	7180	days	142	14
107	2020_dataset	10568	days	7180	days	143	30
108	2020_dataset	10568	days	7180	days	144	93
109	2020_dataset	11664	days	8304	days	146	-34
110	2020_dataset	11664	days	8304	days	147	1
111	2020_dataset	11664	days	8304	days	148	3
112	2020_dataset	11664	days	8304	days	149	7

113	2020_dataset	11664	days	8304	days	150	14
114	2020_dataset	11664	days	8304	days	151	30
115	2020_dataset	11664	days	8304	days	152	120
116	2020_dataset	16412	days	13024	days	153	0
117	2020_dataset	16412	days	13024	days	154	1
118	2020_dataset	16412	days	13024	days	155	3
119	2020_dataset	16412	days	13024	days	156	8
120	2020_dataset	16412	days	13024	days	157	14
121	2020_dataset	16412	days	13024	days	158	37
122	2020_dataset	16412	days	13024	days	159	93
123	2020_dataset	15682	days	12294	days	160	0
124	2020_dataset	15682	days	12294	days	161	1
125	2020_dataset	15682	days	12294	days	162	3
126	2020_dataset	15682	days	12294	days	163	8
127	2020_dataset	15682	days	12294	days	164	14
128	2020_dataset	15682	days	12294	days	165	30
129	2020_dataset	15682	days	12294	days	166	93
130	2020_dataset	14951	days	11563	days	167	0
131	2020_dataset	14951	days	11563	days	168	1
132	2020_dataset	14951	days	11563	days	169	3
133	2020_dataset	14951	days	11563	days	170	8
134	2020_dataset	14951	days	11563	days	171	14
135	2020_dataset	14951	days	11563	days	172	30
136	2020_dataset	14951	days	11563	days	173	93
137	2020_dataset	12760	days	9400	days	174	-26
138	2020_dataset	12760	days	9400	days	175	1
139	2020_dataset	12760	days	9400	days	176	3
140	2020_dataset	12760	days	9400	days	177	7
141	2020_dataset	12760	days	9400	days	178	14
142	2020_dataset	12760	days	9400	days	179	37
143	2020_dataset	12760	days	9400	days	180	115
144	2020_dataset	12395	days	9022	days	181	-13
145	2020_dataset	12395	days	9022	days	182	0
146	2020_dataset	12395	days	9022	days	183	2
147	2020_dataset	12395	days	9022	days	184	6
148	2020_dataset	12395	days	9022	days	185	13
149	2020_dataset	12395	days	9022	days	186	29
150	2020_dataset	12395	days	9022	days	187	94
151	2020_dataset	13856	days	10483	days	191	-6
152	2020_dataset	13856	days	10483	days	192	0
153	2020_dataset	13856	days	10483	days	193	2
154	2020_dataset	13856	days	10483	days	194	6
155	2020_dataset	13856	days	10483	days	195	13

156	2020_dataset	13856	days	10483	days	196	55
157	2020_dataset	13856	days	10483	days	197	112
158	2020_dataset	15682	days	12322	days	201	-7
159	2020_dataset	15682	days	12322	days	202	1
160	2020_dataset	15682	days	12322	days	203	3
161	2020_dataset	15682	days	12322	days	204	7
162	2020_dataset	15682	days	12322	days	205	14
163	2020_dataset	15682	days	12322	days	206	30
164	2020_dataset	15682	days	12322	days	207	107
165	2020_dataset	10568	days	7208	days	208	-5
166	2020_dataset	10568	days	7208	days	209	1
167	2020_dataset	10568	days	7208	days	210	3
168	2020_dataset	10568	days	7208	days	211	7
169	2020_dataset	10568	days	7208	days	212	14
170	2020_dataset	10568	days	7208	days	213	30
171	2020_dataset	10568	days	7208	days	214	108
172	2020_dataset	16047	days	12687	days	216	-4
173	2020_dataset	16047	days	12687	days	217	1
174	2020_dataset	16047	days	12687	days	218	3
175	2020_dataset	16047	days	12687	days	219	7
176	2020_dataset	16047	days	12687	days	220	14
177	2020_dataset	16047	days	12687	days	221	36
178	2020_dataset	16047	days	12687	days	222	163
179	2020_dataset	10568	days	7208	days	223	-4
180	2020_dataset	10568	days	7208	days	224	1
181	2020_dataset	10568	days	7208	days	225	3
182	2020_dataset	10568	days	7208	days	226	7
183	2020_dataset	10568	days	7208	days	227	18
184	2020_dataset	10568	days	7208	days	228	37
185	2020_dataset	10568	days	7208	days	229	93
186	2020_dataset	13856	days	10496	days	232	-4
187	2020_dataset	13856	days	10496	days	233	1
188	2020_dataset	13856	days	10496	days	234	3
189	2020_dataset	13856	days	10496	days	235	7
190	2020_dataset	13856	days	10496	days	236	14
191	2020_dataset	13856	days	10496	days	237	32
192	2020_dataset	13856	days	10496	days	238	129
193	2020_dataset	13490	days	10130	days	241	0
194	2020_dataset	13490	days	10130	days	242	1
195	2020_dataset	13490	days	10130	days	243	3
196	2020_dataset	13490	days	10130	days	244	7
197	2020_dataset	13490	days	10130	days	245	14
198	2020_dataset	13490	days	10130	days	246	31

199	2020_dataset	13490	days	10130	days	247	428
200	2020_dataset	10568	days	7236	days	248	-19
201	2020_dataset	10568	days	7236	days	249	1
202	2020_dataset	10568	days	7236	days	250	3
203	2020_dataset	10568	days	7236	days	251	7
204	2020_dataset	10568	days	7236	days	252	16
205	2020_dataset	10568	days	7236	days	253	30
206	2020_dataset	10568	days	7236	days	254	112
207	2020_dataset	13125	days	9779	days	255	-6
208	2020_dataset	13125	days	9779	days	256	1
209	2020_dataset	13125	days	9779	days	257	3
210	2020_dataset	13125	days	9779	days	258	7
211	2020_dataset	13125	days	9779	days	259	15
212	2020_dataset	13125	days	9779	days	260	30
213	2020_dataset	13125	days	9779	days	261	92
214	2020_dataset	15682	days	12350	days	266	-18
215	2020_dataset	15682	days	12350	days	267	1
216	2020_dataset	15682	days	12350	days	268	3
217	2020_dataset	15682	days	12350	days	269	14
218	2020_dataset	15682	days	12350	days	270	30
219	2020_dataset	15682	days	12350	days	271	92
220	2020_dataset	15682	days	12350	days	272	402
221	2020_dataset	12760	days	9414	days	274	-4
222	2020_dataset	12760	days	9414	days	275	1
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224	2020_dataset	12760	days	9414	days	277	7
225	2020_dataset	12760	days	9414	days	278	14
226	2020_dataset	12760	days	9414	days	279	37
227	2020_dataset	12760	days	9414	days	280	94
228	2020_dataset	10568	days	7236	days	281	-6
229	2020_dataset	10568	days	7236	days	282	1
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231	2020_dataset	10568	days	7236	days	284	7
232	2020_dataset	10568	days	7236	days	285	14
233	2020_dataset	10568	days	7236	days	286	30
234	2020_dataset	10203	days	6885	days	288	-20
235	2020_dataset	10203	days	6885	days	289	1
236	2020_dataset	10203	days	6885	days	290	7
237	2020_dataset	10203	days	6885	days	291	30
238	2020_dataset	10203	days	6885	days	292	99
239	2020_dataset	10568	days	7236	days	293	-5
240	2020_dataset	10568	days	7236	days	294	1
241	2020_dataset	10568	days	7236	days	295	3

242	2020_dataset	10568	days	7236	days	296	7
243	2020_dataset	10568	days	7236	days	297	14
244	2020_dataset	10568	days	7236	days	298	36
245	2020_dataset	10568	days	7236	days	299	106
246	2020_dataset	14951	days	11619	days	300	-4
247	2020_dataset	14951	days	11619	days	301	1
248	2020_dataset	14951	days	11619	days	302	3
249	2020_dataset	14951	days	11619	days	303	7
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251	2020_dataset	14951	days	11619	days	305	30
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253	2020_dataset	11664	days	8332	days	310	-3
254	2020_dataset	11664	days	8332	days	311	1
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259	2020_dataset	11664	days	8332	days	316	94
260	2020_dataset	14951	days	11633	days	317	-10
261	2020_dataset	14951	days	11633	days	318	1
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263	2020_dataset	14951	days	11633	days	320	7
264	2020_dataset	14951	days	11633	days	321	14
265	2020_dataset	14951	days	11633	days	322	30
266	2020_dataset	14951	days	11633	days	323	92
267	2020_dataset	10568	days	7250	days	324	-6
268	2020_dataset	10568	days	7250	days	325	1
269	2020_dataset	10568	days	7250	days	326	3
270	2020_dataset	10568	days	7250	days	327	7
271	2020_dataset	10568	days	7250	days	328	14
272	2020_dataset	10568	days	7250	days	329	30
273	2020_dataset	10568	days	7250	days	330	107
274	2020_dataset	10203	days	6885	days	332	-6
275	2020_dataset	10203	days	6885	days	333	1
276	2020_dataset	10203	days	6885	days	334	3
277	2020_dataset	10203	days	6885	days	335	7
278	2020_dataset	10203	days	6885	days	336	14
279	2020_dataset	10203	days	6885	days	337	32
280	2020_dataset	10203	days	6885	days	338	101
281	2020_dataset	10203	days	6885	days	342	-5
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285	2020_dataset	10203	days	6885	days	346	14
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288	2020_dataset	10568	days	7271	days	349	-26
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293	2020_dataset	10568	days	7271	days	354	99
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303	2020_dataset	10934	days	7637	days	364	14
304	2020_dataset	10934	days	7637	days	365	29
305	2020_dataset	10934	days	7637	days	366	94
306	2020_dataset	10203	days	6956	days	369	-63
307	2020_dataset	10203	days	6956	days	370	1
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311	2020_dataset	10203	days	6956	days	374	36
312	2020_dataset	10203	days	6956	days	375	105
313	2020_dataset	10568	days	7321	days	376	-56
314	2020_dataset	10568	days	7321	days	377	1
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316	2020_dataset	10568	days	7321	days	379	7
317	2020_dataset	10568	days	7321	days	380	14
318	2020_dataset	10568	days	7321	days	381	31
319	2020_dataset	10568	days	7321	days	382	90
320	2020_dataset	10568	days	7271	days	385	-6
321	2020_dataset	10568	days	7271	days	386	1
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323	2020_dataset	10568	days	7271	days	388	7
324	2020_dataset	10568	days	7271	days	389	15
325	2020_dataset	10568	days	7271	days	390	36
326	2020_dataset	10568	days	7271	days	391	116
327	2020_dataset	10568	days	7271	days	392	-6

328	2020_dataset	10568	days	7271	days	393	1
329	2020_dataset	10568	days	7271	days	394	3
330	2020_dataset	10568	days	7271	days	395	8
331	2020_dataset	10568	days	7271	days	396	14
332	2020_dataset	10203	days	6942	days	397	-34
333	2020_dataset	10203	days	6942	days	398	1
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335	2020_dataset	10203	days	6942	days	400	8
336	2020_dataset	10203	days	6942	days	401	14
337	2020_dataset	10203	days	6942	days	402	31
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339	2020_dataset	10203	days	6942	days	405	-28
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342	2020_dataset	10203	days	6942	days	408	8
343	2020_dataset	10203	days	6942	days	409	14
344	2020_dataset	10203	days	6942	days	410	31
345	2020_dataset	10203	days	6942	days	411	100
346	2020_dataset	10568	days	7321	days	412	-36
347	2020_dataset	10568	days	7321	days	413	1
348	2020_dataset	10568	days	7321	days	414	7
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351	2020_dataset	10568	days	7321	days	417	42
352	2020_dataset	10568	days	7321	days	418	94
353	2020_dataset	10568	days	7321	days	419	-8
354	2020_dataset	10568	days	7321	days	420	1
355	2020_dataset	10568	days	7321	days	421	7
356	2020_dataset	10568	days	7321	days	422	7
357	2020_dataset	10568	days	7321	days	423	14
358	2020_dataset	10568	days	7321	days	424	31
359	2020_dataset	10568	days	7321	days	425	107
360	2020_dataset	10568	days	7334	days	427	-18
361	2020_dataset	10568	days	7334	days	428	1
362	2020_dataset	10568	days	7334	days	429	3
363	2020_dataset	10568	days	7334	days	430	8
364	2020_dataset	10568	days	7334	days	431	14
365	2020_dataset	10568	days	7334	days	432	29
366	2020_dataset	10568	days	7334	days	433	116
367	2020_dataset	10934	days	7700	days	434	-6
368	2020_dataset	10934	days	7700	days	435	1
369	2020_dataset	10934	days	7700	days	436	4
370	2020_dataset	10934	days	7700	days	437	7

371	2020_dataset	10934	days	7700	days	438	14
372	2020_dataset	10934	days	7700	days	439	30
373	2020_dataset	10934	days	7700	days	440	95
374	2020_dataset	10568	days	7334	days	441	-5
375	2020_dataset	10568	days	7334	days	442	1
376	2020_dataset	10568	days	7334	days	443	3
377	2020_dataset	10568	days	7334	days	444	7
378	2020_dataset	10568	days	7334	days	445	14
379	2020_dataset	10568	days	7334	days	446	29
380	2020_dataset	10568	days	7334	days	447	92
381	2020_dataset	10568	days	7334	days	450	-5
382	2020_dataset	10568	days	7334	days	451	1
383	2020_dataset	10568	days	7334	days	452	3
384	2020_dataset	10568	days	7334	days	453	7
385	2020_dataset	10568	days	7334	days	454	14
386	2020_dataset	10568	days	7334	days	455	29
387	2020_dataset	10568	days	7334	days	456	92
388	2020_dataset	10568	days	7334	days	458	-4
389	2020_dataset	10568	days	7334	days	459	1
390	2020_dataset	10568	days	7334	days	460	3
391	2020_dataset	10568	days	7334	days	461	7
392	2020_dataset	10568	days	7334	days	462	14
393	2020_dataset	10568	days	7334	days	463	29
394	2020_dataset	10568	days	7334	days	464	98

	planned_day_relative_to_boost	specimen_type	visit	isotype
1	0	Blood	1	IgG
2	1	Blood	2	IgG
3	3	Blood	3	IgG
4	7	Blood	4	IgG
5	14	Blood	5	IgG
6	30	Blood	6	IgG
7	120	Blood	7	IgG
8	0	Blood	1	IgG
9	1	Blood	2	IgG
10	3	Blood	3	IgG
11	7	Blood	4	IgG
12	14	Blood	5	IgG
13	30	Blood	6	IgG
14	120	Blood	7	IgG
15	0	Blood	1	IgG
16	1	Blood	2	IgG
17	3	Blood	3	IgG
18	7	Blood	4	IgG

19	14	Blood	5	IgG
20	30	Blood	6	IgG
21	120	Blood	7	IgG
22	0	Blood	1	IgG
23	1	Blood	2	IgG
24	3	Blood	3	IgG
25	7	Blood	4	IgG
26	14	Blood	5	IgG
27	30	Blood	6	IgG
28	120	Blood	7	IgG
29	0	Blood	1	IgG
30	1	Blood	2	IgG
31	3	Blood	3	IgG
32	7	Blood	4	IgG
33	14	Blood	5	IgG
34	30	Blood	6	IgG
35	120	Blood	7	IgG
36	0	Blood	1	IgG
37	1	Blood	2	IgG
38	3	Blood	3	IgG
39	14	Blood	4	IgG
40	30	Blood	5	IgG
41	120	Blood	6	IgG
42	386	Blood	7	IgG
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45	3	Blood	3	IgG
46	7	Blood	4	IgG
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49	120	Blood	7	IgG
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53	7	Blood	4	IgG
54	14	Blood	5	IgG
55	30	Blood	6	IgG
56	0	Blood	1	IgG
57	1	Blood	2	IgG
58	3	Blood	3	IgG
59	7	Blood	4	IgG
60	14	Blood	5	IgG
61	30	Blood	6	IgG

62	120	Blood	7	IgG
63	0	Blood	1	IgG
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65	3	Blood	3	IgG
66	7	Blood	4	IgG
67	14	Blood	5	IgG
68	30	Blood	6	IgG
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86	30	Blood	6	IgG
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101	120	Blood	7	IgG
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107	30	Blood	6	IgG
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126	7	Blood	4	IgG
127	14	Blood	5	IgG
128	30	Blood	6	IgG
129	120	Blood	7	IgG
130	0	Blood	1	IgG
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133	7	Blood	4	IgG
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135	30	Blood	6	IgG
136	120	Blood	7	IgG
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142	30	Blood	6	IgG
143	120	Blood	7	IgG
144	0	Blood	1	IgG
145	1	Blood	2	IgG
146	3	Blood	3	IgG
147	7	Blood	4	IgG

148	14	Blood	5	IgG
149	30	Blood	6	IgG
150	120	Blood	7	IgG
151	0	Blood	1	IgG
152	1	Blood	2	IgG
153	3	Blood	3	IgG
154	7	Blood	4	IgG
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168	7	Blood	4	IgG
169	14	Blood	5	IgG
170	30	Blood	6	IgG
171	120	Blood	7	IgG
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174	3	Blood	3	IgG
175	7	Blood	4	IgG
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177	30	Blood	6	IgG
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184	30	Blood	6	IgG
185	120	Blood	7	IgG
186	0	Blood	1	IgG
187	1	Blood	2	IgG
188	3	Blood	3	IgG
189	7	Blood	4	IgG
190	14	Blood	5	IgG

191	30	Blood	6	IgG
192	120	Blood	7	IgG
193	0	Blood	1	IgG
194	1	Blood	2	IgG
195	3	Blood	3	IgG
196	7	Blood	4	IgG
197	14	Blood	5	IgG
198	30	Blood	6	IgG
199	428	Blood	8	IgG
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202	3	Blood	3	IgG
203	7	Blood	4	IgG
204	14	Blood	5	IgG
205	30	Blood	6	IgG
206	120	Blood	7	IgG
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209	3	Blood	3	IgG
210	7	Blood	4	IgG
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212	30	Blood	6	IgG
213	120	Blood	7	IgG
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217	14	Blood	4	IgG
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219	120	Blood	6	IgG
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227	120	Blood	7	IgG
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229	1	Blood	2	IgG
230	3	Blood	3	IgG
231	7	Blood	4	IgG
232	14	Blood	5	IgG
233	30	Blood	6	IgG

234	0	Blood	1	IgG
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236	7	Blood	3	IgG
237	30	Blood	4	IgG
238	120	Blood	5	IgG
239	0	Blood	1	IgG
240	1	Blood	2	IgG
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258	30	Blood	6	IgG
259	120	Blood	7	IgG
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263	7	Blood	4	IgG
264	14	Blood	5	IgG
265	30	Blood	6	IgG
266	120	Blood	7	IgG
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272	30	Blood	6	IgG
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275	1	Blood	2	IgG
276	3	Blood	3	IgG

277	7	Blood	4	IgG
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279	30	Blood	6	IgG
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283	3	Blood	3	IgG
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311	30	Blood	6	IgG
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316	7	Blood	4	IgG
317	14	Blood	5	IgG
318	30	Blood	6	IgG
319	120	Blood	7	IgG

320	0	Blood	1	IgG
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322	3	Blood	3	IgG
323	7	Blood	4	IgG
324	14	Blood	5	IgG
325	30	Blood	6	IgG
326	120	Blood	7	IgG
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345	120	Blood	7	IgG
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348	3	Blood	3	IgG
349	7	Blood	4	IgG
350	14	Blood	5	IgG
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357	14	Blood	5	IgG
358	30	Blood	6	IgG
359	120	Blood	7	IgG
360	0	Blood	1	IgG
361	1	Blood	2	IgG
362	3	Blood	3	IgG

363	7	Blood	4	IgG
364	14	Blood	5	IgG
365	30	Blood	6	IgG
366	120	Blood	7	IgG
367	0	Blood	1	IgG
368	1	Blood	2	IgG
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383	3	Blood	3	IgG
384	7	Blood	4	IgG
385	14	Blood	5	IgG
386	30	Blood	6	IgG
387	120	Blood	7	IgG
388	0	Blood	1	IgG
389	1	Blood	2	IgG
390	3	Blood	3	IgG
391	7	Blood	4	IgG
392	14	Blood	5	IgG
393	30	Blood	6	IgG
394	120	Blood	7	IgG

	is_antigen_specific	antigen	MFI	MFI_normalised	unit
1	TRUE	PT	6.856614e+01	3.73699166	IU/ML
2	TRUE	PT	4.138442e+01	2.25553379	IU/ML
3	TRUE	PT	5.963762e+01	3.25036934	IU/ML
4	TRUE	PT	1.995177e+02	10.87411169	IU/ML
5	TRUE	PT	2.296037e+02	12.51386026	IU/ML
6	TRUE	PT	2.288146e+02	12.47085353	IU/ML
7	TRUE	PT	1.985562e+02	10.82171086	IU/ML
8	TRUE	PT	2.011607e+01	1.09636587	IU/ML
9	TRUE	PT	1.307630e+01	0.71268463	IU/ML
10	TRUE	PT	9.473398e+00	0.51631914	IU/ML

11	TRUE	PT 1.178683e+02	6.42405817 IU/ML
12	TRUE	PT 1.291980e+02	7.04154687 IU/ML
13	TRUE	PT 1.648531e+02	8.98482346 IU/ML
14	TRUE	PT 1.552430e+02	8.46105386 IU/ML
15	TRUE	PT 3.755222e+01	2.04667118 IU/ML
16	TRUE	PT 2.986034e+01	1.62744809 IU/ML
17	TRUE	PT 2.607730e+01	1.42126489 IU/ML
18	TRUE	PT 1.448853e+02	7.89654060 IU/ML
19	TRUE	PT 1.054266e+02	5.74595904 IU/ML
20	TRUE	PT 1.486644e+02	8.10250666 IU/ML
21	TRUE	PT 1.395544e+02	7.60599157 IU/ML
22	TRUE	PT 6.968565e+01	3.79800697 IU/ML
23	TRUE	PT 5.791494e+01	3.15648000 IU/ML
24	TRUE	PT 4.106182e+01	2.23795148 IU/ML
25	TRUE	PT 1.100317e+02	5.99694906 IU/ML
26	TRUE	PT 9.774326e+01	5.32720297 IU/ML
27	TRUE	PT 1.289116e+02	7.02594046 IU/ML
28	TRUE	PT 1.204283e+02	6.56358324 IU/ML
29	TRUE	PT 3.914130e+00	0.21332789 IU/ML
30	TRUE	PT 3.657555e+00	0.19934407 IU/ML
31	TRUE	PT 3.209682e+00	0.17493411 IU/ML
32	TRUE	PT 1.674964e+02	9.12888622 IU/ML
33	TRUE	PT 1.625000e+02	8.85657487 IU/ML
34	TRUE	PT 1.767945e+02	9.63565138 IU/ML
35	TRUE	PT 1.011998e+02	5.51558979 IU/ML
36	TRUE	PT 9.139656e+00	0.49812954 IU/ML
37	TRUE	PT 6.543368e+00	0.35662666 IU/ML
38	TRUE	PT 4.107241e+01	2.23852839 IU/ML
39	TRUE	PT 9.268763e+01	5.05166119 IU/ML
40	TRUE	PT 6.990745e+01	3.81009595 IU/ML
41	TRUE	PT 2.882964e+01	1.57127294 IU/ML
42	TRUE	PT 1.676128e+01	0.91352323 IU/ML
43	TRUE	PT 4.051410e+00	0.22080995 IU/ML
44	TRUE	PT 3.550618e+00	0.19351580 IU/ML
45	TRUE	PT 6.419504e+00	0.34987579 IU/ML
46	TRUE	PT 1.665922e+01	0.90796079 IU/ML
47	TRUE	PT 1.740970e+01	0.94886320 IU/ML
48	TRUE	PT 1.646815e+01	0.89754717 IU/ML
49	TRUE	PT 1.011236e+01	0.55114405 IU/ML
50	TRUE	PT 5.360000e-01	0.02921307 IU/ML
51	TRUE	PT 5.360000e-01	0.02921307 IU/ML
52	TRUE	PT 4.638202e+00	0.25279129 IU/ML
53	TRUE	PT 3.821589e+00	0.20828423 IU/ML

54	TRUE	PT 5.135951e+00	0.27991960 IU/ML
55	TRUE	PT 3.418229e+00	0.18630034 IU/ML
56	TRUE	PT 4.453207e+01	2.42708675 IU/ML
57	TRUE	PT 3.613811e+01	1.96959897 IU/ML
58	TRUE	PT 3.523752e+01	1.92051552 IU/ML
59	TRUE	PT 5.337719e+02	29.09163758 IU/ML
60	TRUE	PT 4.145139e+02	22.59183883 IU/ML
61	TRUE	PT 1.991238e+02	10.85264293 IU/ML
62	TRUE	PT 1.434999e+02	7.82103317 IU/ML
63	TRUE	PT 2.426124e+00	0.13222859 IU/ML
64	TRUE	PT 2.736522e+00	0.14914591 IU/ML
65	TRUE	PT 5.360000e-01	0.02921307 IU/ML
66	TRUE	PT 2.495638e+01	1.36017276 IU/ML
67	TRUE	PT 9.687427e+01	5.27984158 IU/ML
68	TRUE	PT 3.544540e+01	1.93184542 IU/ML
69	TRUE	PT 2.901240e+01	1.58123355 IU/ML
70	TRUE	PT 3.688192e+01	2.01013838 IU/ML
71	TRUE	PT 4.178865e+01	2.27756513 IU/ML
72	TRUE	PT 4.028783e+01	2.19576744 IU/ML
73	TRUE	PT 5.806193e+01	3.16449137 IU/ML
74	TRUE	PT 2.044619e+02	11.14358372 IU/ML
75	TRUE	PT 1.711338e+02	9.32713483 IU/ML
76	TRUE	PT 2.250771e+01	1.22671504 IU/ML
77	TRUE	PT 2.606545e+01	1.42061899 IU/ML
78	TRUE	PT 8.942424e-01	0.04873800 IU/ML
79	TRUE	PT 2.042297e+02	11.13092955 IU/ML
80	TRUE	PT 2.690013e+02	14.66110672 IU/ML
81	TRUE	PT 5.545653e+00	0.30224919 IU/ML
82	TRUE	PT 3.514701e+00	0.19155823 IU/ML
83	TRUE	PT 2.014169e+01	1.09776245 IU/ML
84	TRUE	PT 1.618016e+01	0.88185086 IU/ML
85	TRUE	PT 1.004895e+02	5.47687617 IU/ML
86	TRUE	PT 1.174317e+01	0.64002640 IU/ML
87	TRUE	PT 6.656937e+00	0.36281637 IU/ML
88	TRUE	PT 5.271166e+01	2.87289077 IU/ML
89	TRUE	PT 2.396038e+01	1.30588864 IU/ML
90	TRUE	PT 3.844803e+00	0.20954945 IU/ML
91	TRUE	PT 8.667540e+01	4.72398240 IU/ML
92	TRUE	PT 9.944042e+01	5.41970147 IU/ML
93	TRUE	PT 5.779780e+01	3.15009551 IU/ML
94	TRUE	PT 4.414412e+01	2.40594281 IU/ML
95	TRUE	PT 1.829349e+02	9.97031964 IU/ML
96	TRUE	PT 1.471305e+02	8.01890564 IU/ML

97	TRUE	PT 1.435148e+02	7.82184318 IU/ML
98	TRUE	PT 1.625990e+02	8.86197308 IU/ML
99	TRUE	PT 1.689009e+02	9.20543572 IU/ML
100	TRUE	PT 1.298864e+02	7.07906798 IU/ML
101	TRUE	PT 9.833932e+01	5.35968966 IU/ML
102	TRUE	PT 4.074401e+01	2.22062993 IU/ML
103	TRUE	PT 2.795453e+01	1.52357789 IU/ML
104	TRUE	PT 2.132857e+01	1.16244994 IU/ML
105	TRUE	PT 1.906822e+02	10.39256335 IU/ML
106	TRUE	PT 1.829061e+02	9.96874747 IU/ML
107	TRUE	PT 1.416498e+02	7.72019871 IU/ML
108	TRUE	PT 1.116795e+02	6.08675823 IU/ML
109	TRUE	PT 6.382116e+01	3.47838076 IU/ML
110	TRUE	PT 6.693838e+01	3.64827565 IU/ML
111	TRUE	PT 7.681929e+01	4.18680488 IU/ML
112	TRUE	PT 1.688730e+02	9.20391366 IU/ML
113	TRUE	PT 1.701837e+02	9.27535380 IU/ML
114	TRUE	PT 8.618554e+01	4.69728443 IU/ML
115	TRUE	PT 7.018579e+01	3.82526577 IU/ML
116	TRUE	PT 8.912066e+01	4.85725419 IU/ML
117	TRUE	PT 9.381605e+01	5.11316216 IU/ML
118	TRUE	PT 2.483628e+01	1.35362715 IU/ML
119	TRUE	PT 1.116587e+02	6.08562490 IU/ML
120	TRUE	PT 1.332696e+02	7.26345933 IU/ML
121	TRUE	PT 9.902579e+01	5.39710358 IU/ML
122	TRUE	PT 6.589953e+01	3.59165598 IU/ML
123	TRUE	PT 1.071943e+02	5.84230335 IU/ML
124	TRUE	PT 9.663384e+00	0.52667375 IU/ML
125	TRUE	PT 3.046665e+00	0.16604934 IU/ML
126	TRUE	PT 2.561991e+01	1.39633657 IU/ML
127	TRUE	PT 3.536885e+01	1.92767308 IU/ML
128	TRUE	PT 2.291502e+01	1.24891414 IU/ML
129	TRUE	PT 1.334159e+01	0.72714312 IU/ML
130	TRUE	PT 6.387587e+01	3.48136253 IU/ML
131	TRUE	PT 5.805951e+00	0.31643595 IU/ML
132	TRUE	PT 1.966594e+00	0.10718333 IU/ML
133	TRUE	PT 1.371755e+02	7.47634110 IU/ML
134	TRUE	PT 8.998965e+01	4.90461599 IU/ML
135	TRUE	PT 1.124450e+02	6.12847970 IU/ML
136	TRUE	PT 7.609423e+01	4.14728768 IU/ML
137	TRUE	PT 5.895038e+00	0.32129134 IU/ML
138	TRUE	PT 6.333229e+00	0.34517365 IU/ML
139	TRUE	PT 5.301253e+00	0.28892887 IU/ML

140	TRUE	PT 7.992845e+01	4.35626048 IU/ML
141	TRUE	PT 1.322196e+02	7.20623213 IU/ML
142	TRUE	PT 1.287069e+02	7.01478560 IU/ML
143	TRUE	PT 7.821953e+01	4.26312098 IU/ML
144	TRUE	PT 3.774999e+00	0.20574500 IU/ML
145	TRUE	PT 2.995838e+00	0.16327916 IU/ML
146	TRUE	PT 2.867299e+00	0.15627354 IU/ML
147	TRUE	PT 2.363176e+01	1.28797842 IU/ML
148	TRUE	PT 1.600102e+01	0.87208731 IU/ML
149	TRUE	PT 1.461359e+01	0.79647014 IU/ML
150	TRUE	PT 1.257752e+01	0.68549982 IU/ML
151	TRUE	PT 1.250248e+01	0.68141033 IU/ML
152	TRUE	PT 5.855506e+00	0.31913680 IU/ML
153	TRUE	PT 9.181613e+00	0.50041625 IU/ML
154	TRUE	PT 2.309943e+01	1.25896521 IU/ML
155	TRUE	PT 9.055533e+00	0.49354466 IU/ML
156	TRUE	PT 1.030604e+01	0.56169992 IU/ML
157	TRUE	PT 1.283892e+01	0.69974671 IU/ML
158	TRUE	PT 1.201846e+01	0.65502996 IU/ML
159	TRUE	PT 3.798321e+00	0.20701609 IU/ML
160	TRUE	PT 1.145785e+01	0.62447577 IU/ML
161	TRUE	PT 1.893884e+01	1.03220454 IU/ML
162	TRUE	PT 4.574896e+01	2.49340964 IU/ML
163	TRUE	PT 1.027561e+02	5.60041042 IU/ML
164	TRUE	PT 3.381657e+01	1.84307076 IU/ML
165	TRUE	PT 1.295780e+01	0.70622597 IU/ML
166	TRUE	PT 3.798321e+00	0.20701609 IU/ML
167	TRUE	PT 9.240235e+00	0.50361130 IU/ML
168	TRUE	PT 5.360000e-01	0.02921307 IU/ML
169	TRUE	PT 4.395969e+01	2.39589088 IU/ML
170	TRUE	PT 4.423585e+01	2.41094249 IU/ML
171	TRUE	PT 3.389009e+01	1.84707760 IU/ML
172	TRUE	PT 2.492037e+01	1.35821005 IU/ML
173	TRUE	PT 1.223861e+01	0.66702882 IU/ML
174	TRUE	PT 2.153587e+01	1.17374816 IU/ML
175	TRUE	PT 1.064620e+02	5.80239345 IU/ML
176	TRUE	PT 1.164783e+02	6.34829906 IU/ML
177	TRUE	PT 1.415592e+02	7.71525868 IU/ML
178	TRUE	PT 8.791129e+01	4.79134103 IU/ML
179	TRUE	PT 1.826877e+01	0.99568429 IU/ML
180	TRUE	PT 1.437091e+01	0.78324334 IU/ML
181	TRUE	PT 1.839418e+01	1.00251948 IU/ML
182	TRUE	PT 3.514443e+01	1.91544177 IU/ML

183	TRUE	PT 7.509077e+01	4.09259703 IU/ML
184	TRUE	PT 7.084239e+01	3.86105190 IU/ML
185	TRUE	PT 5.424624e+01	2.95652855 IU/ML
186	TRUE	PT 1.023357e+01	0.55774987 IU/ML
187	TRUE	PT 7.595422e+00	0.41396569 IU/ML
188	TRUE	PT 3.704702e+00	0.20191367 IU/ML
189	TRUE	PT 2.155469e+01	1.17477360 IU/ML
190	TRUE	PT 6.269973e+01	3.41726062 IU/ML
191	TRUE	PT 4.244389e+01	2.31327662 IU/ML
192	TRUE	PT 1.543155e+01	0.84105042 IU/ML
193	TRUE	PT 2.229580e+00	0.12151655 IU/ML
194	TRUE	PT 2.970301e+00	0.16188733 IU/ML
195	TRUE	PT 1.609199e+00	0.08770455 IU/ML
196	TRUE	PT 1.825555e+01	0.99496392 IU/ML
197	TRUE	PT 3.300308e+01	1.79873358 IU/ML
198	TRUE	PT 2.724314e+01	1.48480542 IU/ML
199	TRUE	PT 4.884167e+00	0.26619685 IU/ML
200	TRUE	PT 3.019657e+01	1.64577368 IU/ML
201	TRUE	PT 2.746527e+01	1.49691198 IU/ML
202	TRUE	PT 2.919055e+01	1.59094337 IU/ML
203	TRUE	PT 1.459129e+02	7.95254476 IU/ML
204	TRUE	PT 2.727172e+02	14.86363460 IU/ML
205	TRUE	PT 4.075844e+02	22.21416301 IU/ML
206	TRUE	PT 1.678208e+02	9.14657064 IU/ML
207	TRUE	PT 1.020937e+01	0.55643096 IU/ML
208	TRUE	PT 1.151975e+01	0.62784956 IU/ML
209	TRUE	PT 1.337095e+01	0.72874345 IU/ML
210	TRUE	PT 3.134043e+01	1.70811604 IU/ML
211	TRUE	PT 1.540787e+02	8.39759673 IU/ML
212	TRUE	PT 1.262250e+02	6.87951327 IU/ML
213	TRUE	PT 7.603800e+01	4.14422283 IU/ML
214	TRUE	PT 2.169251e+01	1.18228510 IU/ML
215	TRUE	PT 2.065205e+01	1.12557828 IU/ML
216	TRUE	PT 2.410600e+01	1.31382533 IU/ML
217	TRUE	PT 1.723144e+02	9.39148179 IU/ML
218	TRUE	PT 1.407706e+02	7.67228073 IU/ML
219	TRUE	PT 3.968596e+01	2.16296414 IU/ML
220	TRUE	PT 2.751197e+01	1.49945725 IU/ML
221	TRUE	PT 2.360127e+01	1.28631632 IU/ML
222	TRUE	PT 3.265219e+01	1.77960983 IU/ML
223	TRUE	PT 4.159569e+01	2.26704815 IU/ML
224	TRUE	PT 7.345474e+01	4.00342993 IU/ML
225	TRUE	PT 7.734049e+01	4.21521124 IU/ML

226	TRUE	PT 6.973527e+01	3.80071177 IU/ML
227	TRUE	PT 4.484448e+01	2.44411398 IU/ML
228	TRUE	PT 1.940079e+01	1.05738162 IU/ML
229	TRUE	PT 9.597456e+00	0.52308055 IU/ML
230	TRUE	PT 1.087948e+01	0.59295350 IU/ML
231	TRUE	PT 2.676206e+01	1.45858577 IU/ML
232	TRUE	PT 4.140028e+01	2.25639777 IU/ML
233	TRUE	PT 2.243961e+01	1.22300337 IU/ML
234	TRUE	PT 7.505371e+00	0.40905771 IU/ML
235	TRUE	PT 4.670559e+00	0.25455480 IU/ML
236	TRUE	PT 2.580434e+01	1.40638789 IU/ML
237	TRUE	PT 2.103225e+01	1.14629948 IU/ML
238	TRUE	PT 2.126563e+01	1.15901953 IU/ML
239	TRUE	PT 1.297263e+01	0.70703442 IU/ML
240	TRUE	PT 9.933649e+00	0.54140374 IU/ML
241	TRUE	PT 8.835470e+00	0.48155077 IU/ML
242	TRUE	PT 9.024783e+01	4.91868692 IU/ML
243	TRUE	PT 1.211634e+02	6.60364528 IU/ML
244	TRUE	PT 5.811900e+01	3.16760167 IU/ML
245	TRUE	PT 1.678167e+01	0.91463437 IU/ML
246	TRUE	PT 7.433043e+00	0.40511568 IU/ML
247	TRUE	PT 2.402022e+02	13.09150273 IU/ML
248	TRUE	PT 4.231762e+00	0.23063950 IU/ML
249	TRUE	PT 7.188113e+01	3.91766514 IU/ML
250	TRUE	PT 1.580558e+02	8.61435564 IU/ML
251	TRUE	PT 1.065845e+02	5.80906991 IU/ML
252	TRUE	PT 4.548803e+01	2.47918867 IU/ML
253	TRUE	PT 1.537562e+01	0.83800194 IU/ML
254	TRUE	PT 1.791079e+01	0.97617404 IU/ML
255	TRUE	PT 1.095040e+01	0.59681859 IU/ML
256	TRUE	PT 9.736591e+01	5.30663653 IU/ML
257	TRUE	PT 1.450357e+02	7.90473632 IU/ML
258	TRUE	PT 1.085604e+02	5.91676096 IU/ML
259	TRUE	PT 3.657272e+01	1.99328622 IU/ML
260	TRUE	PT 2.599431e+01	1.41674185 IU/ML
261	TRUE	PT 2.673853e+01	1.45730338 IU/ML
262	TRUE	PT 2.973470e+01	1.62060080 IU/ML
263	TRUE	PT 7.844682e+01	4.27550833 IU/ML
264	TRUE	PT 1.985910e+02	10.82360502 IU/ML
265	TRUE	PT 1.582781e+02	8.62647047 IU/ML
266	TRUE	PT 1.062967e+02	5.79338157 IU/ML
267	TRUE	PT 2.143544e+01	1.16827445 IU/ML
268	TRUE	PT 1.991070e+01	1.08517287 IU/ML

269	TRUE	PT 1.986568e+01	1.08271954 IU/ML
270	TRUE	PT 1.462475e+02	7.97078041 IU/ML
271	TRUE	PT 1.626313e+02	8.86373049 IU/ML
272	TRUE	PT 1.405726e+02	7.66148966 IU/ML
273	TRUE	PT 6.919271e+01	3.77114100 IU/ML
274	TRUE	PT 1.842714e+01	1.00431571 IU/ML
275	TRUE	PT 1.469892e+01	0.80112055 IU/ML
276	TRUE	PT 1.418438e+01	0.77307707 IU/ML
277	TRUE	PT 2.650881e+01	1.44478329 IU/ML
278	TRUE	PT 4.347727e+01	2.36959803 IU/ML
279	TRUE	PT 3.329199e+01	1.81448018 IU/ML
280	TRUE	PT 2.161737e+01	1.17818975 IU/ML
281	TRUE	PT 1.657742e+01	0.90350269 IU/ML
282	TRUE	PT 1.471312e+01	0.80189472 IU/ML
283	TRUE	PT 1.634493e+01	0.89083146 IU/ML
284	TRUE	PT 2.308181e+02	12.58004938 IU/ML
285	TRUE	PT 2.938809e+02	16.01709610 IU/ML
286	TRUE	PT 1.799022e+02	9.80502883 IU/ML
287	TRUE	PT 6.102118e+01	3.32577632 IU/ML
288	TRUE	PT 1.891160e+00	0.10307198 IU/ML
289	TRUE	PT 2.467442e+00	0.13448051 IU/ML
290	TRUE	PT 5.360000e-01	0.02921307 IU/ML
291	TRUE	PT 7.765449e+00	0.42323251 IU/ML
292	TRUE	PT 3.849907e+01	2.09827627 IU/ML
293	TRUE	PT 4.788488e+00	0.26098216 IU/ML
294	TRUE	PT 1.805916e+02	9.84260193 IU/ML
295	TRUE	PT 1.954764e+02	10.65385586 IU/ML
296	TRUE	PT 1.731525e+02	9.43715476 IU/ML
297	TRUE	PT 2.393218e+02	13.04351917 IU/ML
298	TRUE	PT 2.012391e+02	10.96793431 IU/ML
299	TRUE	PT 9.749316e+01	5.31357197 IU/ML
300	TRUE	PT 9.446639e+01	5.14860711 IU/ML
301	TRUE	PT 1.039093e+02	5.66326261 IU/ML
302	TRUE	PT 2.251260e+02	12.26981730 IU/ML
303	TRUE	PT 2.808927e+02	15.30921334 IU/ML
304	TRUE	PT 2.154813e+02	11.74416023 IU/ML
305	TRUE	PT 1.707925e+02	9.30853210 IU/ML
306	TRUE	PT 5.360000e-01	0.02921307 IU/ML
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309	TRUE	PT 3.574487e+00	0.19481668 IU/ML
310	TRUE	PT 5.360000e-01	0.02921307 IU/ML
311	TRUE	PT 5.383180e+00	0.29339408 IU/ML

312	TRUE	PT 1.736680e+00	0.09465256 IU/ML
313	TRUE	PT 1.623514e+01	0.88484777 IU/ML
314	TRUE	PT 1.359047e+01	0.74070760 IU/ML
315	TRUE	PT 1.627634e+01	0.88709323 IU/ML
316	TRUE	PT 1.023437e+02	5.57793682 IU/ML
317	TRUE	PT 1.399996e+02	7.63025546 IU/ML
318	TRUE	PT 1.158109e+02	6.31192769 IU/ML
319	TRUE	PT 5.811900e+01	3.16760167 IU/ML
320	TRUE	PT 7.738694e+00	0.42177432 IU/ML
321	TRUE	PT 6.993442e+00	0.38115658 IU/ML
322	TRUE	PT 3.478644e+00	0.18959303 IU/ML
323	TRUE	PT 1.656378e+01	0.90275896 IU/ML
324	TRUE	PT 5.288206e+01	2.88217808 IU/ML
325	TRUE	PT 4.468982e+01	2.43568435 IU/ML
326	TRUE	PT 2.099432e+01	1.14423265 IU/ML
327	TRUE	PT 2.889154e+01	1.57464676 IU/ML
328	TRUE	PT 2.841253e+01	1.54853942 IU/ML
329	TRUE	PT 2.086143e+01	1.13698953 IU/ML
330	TRUE	PT 3.855953e+01	2.10157135 IU/ML
331	TRUE	PT 7.357354e+01	4.00990527 IU/ML
332	TRUE	PT 5.363396e+01	2.92315807 IU/ML
333	TRUE	PT 4.938502e+01	2.69158207 IU/ML
334	TRUE	PT 5.360000e-01	0.02921307 IU/ML
335	TRUE	PT 6.486963e+01	3.53552427 IU/ML
336	TRUE	PT 1.099980e+02	5.99511003 IU/ML
337	TRUE	PT 3.593304e+01	1.95842264 IU/ML
338	TRUE	PT 2.182097e+01	1.18928641 IU/ML
339	TRUE	PT 3.135649e+02	17.08991541 IU/ML
340	TRUE	PT 1.626649e+02	8.86556036 IU/ML
341	TRUE	PT 1.126574e+02	6.14005148 IU/ML
342	TRUE	PT 1.235583e+02	6.73417266 IU/ML
343	TRUE	PT 2.192793e+02	11.95116199 IU/ML
344	TRUE	PT 1.401067e+02	7.63609789 IU/ML
345	TRUE	PT 1.270450e+02	6.92420856 IU/ML
346	TRUE	PT 6.455294e+01	3.51826438 IU/ML
347	TRUE	PT 5.466709e+01	2.97946590 IU/ML
348	TRUE	PT 3.128600e+01	1.70514930 IU/ML
349	TRUE	PT 1.342113e+02	7.31478393 IU/ML
350	TRUE	PT 1.723631e+02	9.39413524 IU/ML
351	TRUE	PT 1.583413e+02	8.62991960 IU/ML
352	TRUE	PT 1.506017e+02	8.20809541 IU/ML
353	TRUE	PT 6.236853e+00	0.33992094 IU/ML
354	TRUE	PT 8.250169e+00	0.44965073 IU/ML

355	TRUE	PT 3.960090e+00	0.21583280 IU/ML
356	TRUE	PT 4.716210e+01	2.57042853 IU/ML
357	TRUE	PT 1.206523e+02	6.57578973 IU/ML
358	TRUE	PT 9.477905e+01	5.16564782 IU/ML
359	TRUE	PT 9.057606e+01	4.93657616 IU/ML
360	TRUE	PT 1.520603e+02	8.28759185 IU/ML
361	TRUE	PT 1.637493e+02	8.92466390 IU/ML
362	TRUE	PT 1.690590e+02	9.21405607 IU/ML
363	TRUE	PT 1.975188e+02	10.76516737 IU/ML
364	TRUE	PT 2.025211e+02	11.03780589 IU/ML
365	TRUE	PT 1.766280e+02	9.62657769 IU/ML
366	TRUE	PT 1.500179e+02	8.17627776 IU/ML
367	TRUE	PT 3.751622e+00	0.20447092 IU/ML
368	TRUE	PT 1.427234e+00	0.07778712 IU/ML
369	TRUE	PT 4.464164e+00	0.24330586 IU/ML
370	TRUE	PT 6.028974e+01	3.28591154 IU/ML
371	TRUE	PT 8.300331e+01	4.52384648 IU/ML
372	TRUE	PT 7.641164e+01	4.16458701 IU/ML
373	TRUE	PT 3.410543e+01	1.85881424 IU/ML
374	TRUE	PT 1.598721e+01	0.87133475 IU/ML
375	TRUE	PT 2.552458e+01	1.39114064 IU/ML
376	TRUE	PT 3.062824e+01	1.66930048 IU/ML
377	TRUE	PT 1.850249e+02	10.08422490 IU/ML
378	TRUE	PT 2.233094e+02	12.17081132 IU/ML
379	TRUE	PT 1.962044e+02	10.69353185 IU/ML
380	TRUE	PT 8.720626e+01	4.75291554 IU/ML
381	TRUE	PT 1.254752e+01	0.68386505 IU/ML
382	TRUE	PT 2.148568e+01	1.17101229 IU/ML
383	TRUE	PT 3.937680e+01	2.14611450 IU/ML
384	TRUE	PT 1.058576e+02	5.76945289 IU/ML
385	TRUE	PT 3.529587e+02	19.23695317 IU/ML
386	TRUE	PT 1.533711e+04	0.02888606 IU/ML
387	TRUE	PT 1.920847e+02	10.46900269 IU/ML
388	TRUE	PT 5.360000e-01	0.02921307 IU/ML
389	TRUE	PT 5.360000e-01	0.02921307 IU/ML
390	TRUE	PT 5.360000e-01	0.02921307 IU/ML
391	TRUE	PT 2.118372e+01	1.15455529 IU/ML
392	TRUE	PT 3.155439e+01	1.71977739 IU/ML
393	TRUE	PT 4.176455e+01	2.27625121 IU/ML
394	TRUE	PT 1.048244e+01	0.57131410 IU/ML

lower_limit_of_detection

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61	69	wP	Female Hispanic or Latino
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63	69	wP	Female Hispanic or Latino
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7		Unknown or Not Reported	1987-01-01 2019-04-08
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9		Asian	1993-01-01 2018-11-26
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12		Asian	1993-01-01 2018-11-26
13		Asian	1993-01-01 2018-11-26
14		Asian	1993-01-01 2018-11-26
15		White	1995-01-01 2018-11-26
16		White	1995-01-01 2018-11-26

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19		White	1995-01-01	2018-11-26
20		White	1995-01-01	2018-11-26
21		White	1995-01-01	2018-11-26
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37	Black or African American		1976-01-01	2018-12-03
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100	Native Hawaiian or Other Pacific Islander		1998-01-01	2019-02-25
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102	Native Hawaiian or Other Pacific Islander		1998-01-01	2019-02-25

103	Native Hawaiian or Other Pacific Islander	1998-01-01	2019-02-25
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105	Native Hawaiian or Other Pacific Islander	1998-01-01	2019-02-25
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107	Asian	1998-01-01	2019-02-25
108	Asian	1998-01-01	2019-02-25
109	Asian	1998-01-01	2019-02-25
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183	Asian	1999-01-01	2019-06-03
184	Asian	1999-01-01	2019-06-03
185	Asian	1999-01-01	2019-06-03
186	Asian	1999-01-01	2019-06-03
187	Asian	1999-01-01	2019-06-03
188	Asian	1999-01-01	2019-06-03

189		Asian	1999-01-01	2019-06-03
190	Unknown or Not Reported		1998-01-01	2019-06-03
191	Unknown or Not Reported		1998-01-01	2019-06-03
192	Unknown or Not Reported		1998-01-01	2019-06-03
193	Unknown or Not Reported		1998-01-01	2019-06-03
194	Unknown or Not Reported		1998-01-01	2019-06-03
195	Unknown or Not Reported		1998-01-01	2019-06-03
196	Unknown or Not Reported		1998-01-01	2019-06-03
197		White	2000-01-01	2019-06-24
198		White	2000-01-01	2019-06-24
199		White	2000-01-01	2019-06-24
200		White	2000-01-01	2019-06-24
201		White	2000-01-01	2019-06-24
202		White	2000-01-01	2019-06-24
203		White	2000-01-01	2019-06-24
204	More Than One Race		1996-01-01	2019-06-24
205	More Than One Race		1996-01-01	2019-06-24
206	More Than One Race		1996-01-01	2019-06-24
207	More Than One Race		1996-01-01	2019-06-24
208	More Than One Race		1996-01-01	2019-06-24
209	More Than One Race		1996-01-01	2019-06-24
210	More Than One Race		1996-01-01	2019-06-24
211	Unknown or Not Reported		1999-01-01	2019-06-24
212	Unknown or Not Reported		1999-01-01	2019-06-24
213	Unknown or Not Reported		1999-01-01	2019-06-24
214	Unknown or Not Reported		1999-01-01	2019-06-24
215	Unknown or Not Reported		1999-01-01	2019-06-24
216	Unknown or Not Reported		1999-01-01	2019-06-24
217	Unknown or Not Reported		1999-01-01	2019-06-24
218	Unknown or Not Reported		1998-01-01	2019-06-24
219	Unknown or Not Reported		1998-01-01	2019-06-24
220	Unknown or Not Reported		1998-01-01	2019-06-24
221	Unknown or Not Reported		1998-01-01	2019-06-24
222	Unknown or Not Reported		1998-01-01	2019-06-24
223	Unknown or Not Reported		1998-01-01	2019-06-24
224	Unknown or Not Reported		1998-01-01	2019-06-24
225	Unknown or Not Reported		2000-01-01	2019-06-24
226	Unknown or Not Reported		2000-01-01	2019-06-24
227	Unknown or Not Reported		2000-01-01	2019-06-24
228	Unknown or Not Reported		2000-01-01	2019-06-24
229	Unknown or Not Reported		2000-01-01	2019-06-24
230	Unknown or Not Reported		2000-01-01	2019-06-24
231	Unknown or Not Reported		2000-01-01	2019-06-24

	dataset	age	boost_age	specimen_id	actual_day_relative_to_boost
1	2021_dataset	14221 days	11785 days	468	-4
2	2021_dataset	14221 days	11785 days	469	1
3	2021_dataset	14221 days	11785 days	470	3
4	2021_dataset	14221 days	11785 days	471	7
5	2021_dataset	14221 days	11785 days	472	14
6	2021_dataset	14221 days	11785 days	473	30
7	2021_dataset	14221 days	11785 days	474	91
8	2021_dataset	12029 days	9460 days	475	0
9	2021_dataset	12029 days	9460 days	476	1
10	2021_dataset	12029 days	9460 days	477	3
11	2021_dataset	12029 days	9460 days	478	7
12	2021_dataset	12029 days	9460 days	479	14
13	2021_dataset	12029 days	9460 days	480	30
14	2021_dataset	12029 days	9460 days	481	101
15	2021_dataset	11299 days	8730 days	483	0
16	2021_dataset	11299 days	8730 days	484	1
17	2021_dataset	11299 days	8730 days	485	3
18	2021_dataset	11299 days	8730 days	486	7
19	2021_dataset	11299 days	8730 days	487	14
20	2021_dataset	11299 days	8730 days	488	38
21	2021_dataset	11299 days	8730 days	489	121
22	2021_dataset	12029 days	9460 days	490	0
23	2021_dataset	12029 days	9460 days	491	1
24	2021_dataset	12029 days	9460 days	492	3
25	2021_dataset	12029 days	9460 days	493	7
26	2021_dataset	12029 days	9460 days	494	14
27	2021_dataset	12029 days	9460 days	495	30
28	2021_dataset	12029 days	9460 days	496	101
29	2021_dataset	13125 days	10563 days	498	0
30	2021_dataset	13125 days	10563 days	499	1
31	2021_dataset	13125 days	10563 days	500	3
32	2021_dataset	13125 days	10563 days	501	7
33	2021_dataset	13125 days	10563 days	502	14
34	2021_dataset	13125 days	10563 days	503	37
35	2021_dataset	13125 days	10563 days	504	98
36	2021_dataset	18239 days	15677 days	506	0
37	2021_dataset	18239 days	15677 days	507	1
38	2021_dataset	18239 days	15677 days	508	3
39	2021_dataset	18239 days	15677 days	509	7
40	2021_dataset	18239 days	15677 days	510	14
41	2021_dataset	18239 days	15677 days	511	31
42	2021_dataset	18239 days	15677 days	512	101

43	2021_dataset	19700	days	17194	days	513	0
44	2021_dataset	19700	days	17194	days	514	1
45	2021_dataset	19700	days	17194	days	515	3
46	2021_dataset	19700	days	17194	days	516	7
47	2021_dataset	19700	days	17194	days	517	14
48	2021_dataset	19700	days	17194	days	518	30
49	2021_dataset	19700	days	17194	days	519	93
50	2021_dataset	19700	days	17194	days	521	0
51	2021_dataset	19700	days	17194	days	522	1
52	2021_dataset	19700	days	17194	days	523	3
53	2021_dataset	19700	days	17194	days	524	7
54	2021_dataset	19700	days	17194	days	525	14
55	2021_dataset	19700	days	17194	days	526	30
56	2021_dataset	19700	days	17194	days	527	93
57	2021_dataset	13125	days	10619	days	529	0
58	2021_dataset	13125	days	10619	days	530	1
59	2021_dataset	13125	days	10619	days	531	3
60	2021_dataset	13125	days	10619	days	532	7
61	2021_dataset	13125	days	10619	days	533	14
62	2021_dataset	13125	days	10619	days	534	32
63	2021_dataset	13125	days	10619	days	535	91
64	2021_dataset	10203	days	7697	days	537	0
65	2021_dataset	10203	days	7697	days	538	1
66	2021_dataset	10203	days	7697	days	539	3
67	2021_dataset	10203	days	7697	days	540	7
68	2021_dataset	10203	days	7697	days	541	14
69	2021_dataset	10203	days	7697	days	542	32
70	2021_dataset	10203	days	7697	days	543	93
71	2021_dataset	10203	days	7697	days	546	0
72	2021_dataset	10203	days	7697	days	547	1
73	2021_dataset	10203	days	7697	days	548	3
74	2021_dataset	10203	days	7697	days	549	7
75	2021_dataset	10203	days	7697	days	550	14
76	2021_dataset	10203	days	7697	days	551	37
77	2021_dataset	10203	days	7697	days	552	108
78	2021_dataset	12760	days	10282	days	554	0
79	2021_dataset	12760	days	10282	days	555	1
80	2021_dataset	12760	days	10282	days	556	3
81	2021_dataset	12760	days	10282	days	557	7
82	2021_dataset	12760	days	10282	days	558	14
83	2021_dataset	12760	days	10282	days	559	29
84	2021_dataset	12760	days	10282	days	560	94
85	2021_dataset	11299	days	8821	days	562	0

86	2021_dataset	11299	days	8821	days	563	1
87	2021_dataset	11299	days	8821	days	564	3
88	2021_dataset	11299	days	8821	days	565	7
89	2021_dataset	11299	days	8821	days	566	14
90	2021_dataset	11299	days	8821	days	567	37
91	2021_dataset	11299	days	8821	days	568	98
92	2021_dataset	11299	days	8821	days	569	0
93	2021_dataset	11299	days	8821	days	570	1
94	2021_dataset	11299	days	8821	days	571	3
95	2021_dataset	11299	days	8821	days	572	7
96	2021_dataset	11299	days	8821	days	573	14
97	2021_dataset	11299	days	8821	days	574	29
98	2021_dataset	11299	days	8821	days	575	94
99	2021_dataset	10203	days	7725	days	577	0
100	2021_dataset	10203	days	7725	days	578	1
101	2021_dataset	10203	days	7725	days	579	3
102	2021_dataset	10203	days	7725	days	580	7
103	2021_dataset	10203	days	7725	days	581	14
104	2021_dataset	10203	days	7725	days	582	29
105	2021_dataset	10203	days	7725	days	583	94
106	2021_dataset	10203	days	7725	days	585	0
107	2021_dataset	10203	days	7725	days	586	1
108	2021_dataset	10203	days	7725	days	587	3
109	2021_dataset	10203	days	7725	days	588	7
110	2021_dataset	10203	days	7725	days	589	14
111	2021_dataset	10203	days	7725	days	590	30
112	2021_dataset	10203	days	7725	days	591	93
113	2021_dataset	13856	days	11399	days	593	0
114	2021_dataset	13856	days	11399	days	594	1
115	2021_dataset	13856	days	11399	days	595	3
116	2021_dataset	13856	days	11399	days	596	7
117	2021_dataset	13856	days	11399	days	597	14
118	2021_dataset	13856	days	11399	days	598	31
119	2021_dataset	13856	days	11399	days	599	94
120	2021_dataset	12029	days	9572	days	601	0
121	2021_dataset	12029	days	9572	days	602	1
122	2021_dataset	12029	days	9572	days	603	3
123	2021_dataset	12029	days	9572	days	604	7
124	2021_dataset	12029	days	9572	days	605	14
125	2021_dataset	12029	days	9572	days	606	31
126	2021_dataset	12029	days	9572	days	607	92
127	2021_dataset	14221	days	11764	days	608	0
128	2021_dataset	14221	days	11764	days	609	1

129	2021_dataset	14221	days	11764	days	610	3
130	2021_dataset	14221	days	11764	days	611	7
131	2021_dataset	14221	days	11764	days	612	14
132	2021_dataset	14221	days	11764	days	613	31
133	2021_dataset	14221	days	11764	days	614	92
134	2021_dataset	12395	days	9938	days	616	0
135	2021_dataset	12395	days	9938	days	617	1
136	2021_dataset	12395	days	9938	days	618	3
137	2021_dataset	12395	days	9938	days	619	7
138	2021_dataset	12395	days	9938	days	620	14
139	2021_dataset	12395	days	9938	days	621	31
140	2021_dataset	12395	days	9938	days	622	92
141	2021_dataset	12029	days	9572	days	623	0
142	2021_dataset	12029	days	9572	days	624	1
143	2021_dataset	12029	days	9572	days	625	3
144	2021_dataset	12029	days	9572	days	626	7
145	2021_dataset	12029	days	9572	days	627	14
146	2021_dataset	12029	days	9572	days	628	36
147	2021_dataset	12029	days	9572	days	629	100
148	2021_dataset	9838	days	7402	days	636	0
149	2021_dataset	9838	days	7402	days	637	1
150	2021_dataset	9838	days	7402	days	638	3
151	2021_dataset	9838	days	7402	days	639	7
152	2021_dataset	9838	days	7402	days	640	14
153	2021_dataset	9838	days	7402	days	641	30
154	2021_dataset	9838	days	7402	days	642	99
155	2021_dataset	10568	days	8132	days	643	0
156	2021_dataset	10568	days	8132	days	644	1
157	2021_dataset	10568	days	8132	days	645	3
158	2021_dataset	10568	days	8132	days	646	7
159	2021_dataset	10568	days	8132	days	647	15
160	2021_dataset	10568	days	8132	days	648	28
161	2021_dataset	10568	days	8132	days	649	95
162	2021_dataset	9473	days	7058	days	650	0
163	2021_dataset	9473	days	7058	days	651	1
164	2021_dataset	9473	days	7058	days	652	3
165	2021_dataset	9473	days	7058	days	653	7
166	2021_dataset	9473	days	7058	days	654	14
167	2021_dataset	9473	days	7058	days	655	30
168	2021_dataset	9473	days	7058	days	656	150
169	2021_dataset	10203	days	7788	days	657	0
170	2021_dataset	10203	days	7788	days	658	1
171	2021_dataset	10203	days	7788	days	659	3

172	2021_dataset	10203	days	7788	days	660	7
173	2021_dataset	10203	days	7788	days	661	14
174	2021_dataset	10203	days	7788	days	662	30
175	2021_dataset	10203	days	7788	days	663	102
176	2021_dataset	10568	days	8188	days	674	0
177	2021_dataset	10568	days	8188	days	675	1
178	2021_dataset	10568	days	8188	days	676	3
179	2021_dataset	10568	days	8188	days	677	7
180	2021_dataset	10568	days	8188	days	678	14
181	2021_dataset	10568	days	8188	days	679	29
182	2021_dataset	10568	days	8188	days	680	112
183	2021_dataset	9838	days	7458	days	681	0
184	2021_dataset	9838	days	7458	days	682	1
185	2021_dataset	9838	days	7458	days	683	3
186	2021_dataset	9838	days	7458	days	684	7
187	2021_dataset	9838	days	7458	days	685	14
188	2021_dataset	9838	days	7458	days	686	29
189	2021_dataset	9838	days	7458	days	687	112
190	2021_dataset	10203	days	7823	days	688	0
191	2021_dataset	10203	days	7823	days	689	1
192	2021_dataset	10203	days	7823	days	690	3
193	2021_dataset	10203	days	7823	days	691	7
194	2021_dataset	10203	days	7823	days	692	14
195	2021_dataset	10203	days	7823	days	693	37
196	2021_dataset	10203	days	7823	days	694	107
197	2021_dataset	9473	days	7114	days	695	0
198	2021_dataset	9473	days	7114	days	696	1
199	2021_dataset	9473	days	7114	days	697	3
200	2021_dataset	9473	days	7114	days	698	7
201	2021_dataset	9473	days	7114	days	699	14
202	2021_dataset	9473	days	7114	days	700	30
203	2021_dataset	9473	days	7114	days	701	93
204	2021_dataset	10934	days	8575	days	702	0
205	2021_dataset	10934	days	8575	days	703	1
206	2021_dataset	10934	days	8575	days	704	3
207	2021_dataset	10934	days	8575	days	705	7
208	2021_dataset	10934	days	8575	days	706	14
209	2021_dataset	10934	days	8575	days	707	30
210	2021_dataset	10934	days	8575	days	708	95
211	2021_dataset	9838	days	7479	days	709	0
212	2021_dataset	9838	days	7479	days	710	1
213	2021_dataset	9838	days	7479	days	711	3
214	2021_dataset	9838	days	7479	days	712	7

215	2021_dataset	9838 days	7479 days	713	14
216	2021_dataset	9838 days	7479 days	714	30
217	2021_dataset	9838 days	7479 days	715	93
218	2021_dataset	10203 days	7844 days	716	0
219	2021_dataset	10203 days	7844 days	717	1
220	2021_dataset	10203 days	7844 days	718	3
221	2021_dataset	10203 days	7844 days	719	7
222	2021_dataset	10203 days	7844 days	720	14
223	2021_dataset	10203 days	7844 days	721	30
224	2021_dataset	10203 days	7844 days	722	93
225	2021_dataset	9473 days	7114 days	723	0
226	2021_dataset	9473 days	7114 days	724	1
227	2021_dataset	9473 days	7114 days	725	3
228	2021_dataset	9473 days	7114 days	726	7
229	2021_dataset	9473 days	7114 days	727	14
230	2021_dataset	9473 days	7114 days	728	30
231	2021_dataset	9473 days	7114 days	729	93

	planned_day_relative_to_boost	specimen_type	visit	isotype
1	0	Blood	1	IgG
2	1	Blood	2	IgG
3	3	Blood	3	IgG
4	7	Blood	4	IgG
5	14	Blood	5	IgG
6	30	Blood	6	IgG
7	120	Blood	7	IgG
8	0	Blood	1	IgG
9	1	Blood	2	IgG
10	3	Blood	3	IgG
11	7	Blood	4	IgG
12	14	Blood	5	IgG
13	30	Blood	6	IgG
14	120	Blood	7	IgG
15	0	Blood	1	IgG
16	1	Blood	2	IgG
17	3	Blood	3	IgG
18	7	Blood	4	IgG
19	14	Blood	5	IgG
20	30	Blood	6	IgG
21	120	Blood	7	IgG
22	0	Blood	1	IgG
23	1	Blood	2	IgG
24	3	Blood	3	IgG
25	7	Blood	4	IgG

26	14	Blood	5	IgG
27	30	Blood	6	IgG
28	120	Blood	7	IgG
29	0	Blood	1	IgG
30	1	Blood	2	IgG
31	3	Blood	3	IgG
32	7	Blood	4	IgG
33	14	Blood	5	IgG
34	30	Blood	6	IgG
35	120	Blood	7	IgG
36	0	Blood	1	IgG
37	1	Blood	2	IgG
38	3	Blood	3	IgG
39	7	Blood	4	IgG
40	14	Blood	5	IgG
41	30	Blood	6	IgG
42	120	Blood	7	IgG
43	0	Blood	1	IgG
44	1	Blood	2	IgG
45	3	Blood	3	IgG
46	7	Blood	4	IgG
47	14	Blood	5	IgG
48	30	Blood	6	IgG
49	120	Blood	7	IgG
50	0	Blood	1	IgG
51	1	Blood	2	IgG
52	3	Blood	3	IgG
53	7	Blood	4	IgG
54	14	Blood	5	IgG
55	30	Blood	6	IgG
56	120	Blood	7	IgG
57	0	Blood	1	IgG
58	1	Blood	2	IgG
59	3	Blood	3	IgG
60	7	Blood	4	IgG
61	14	Blood	5	IgG
62	30	Blood	6	IgG
63	120	Blood	7	IgG
64	0	Blood	1	IgG
65	1	Blood	2	IgG
66	3	Blood	3	IgG
67	7	Blood	4	IgG
68	14	Blood	5	IgG

69	30	Blood	6	IgG
70	120	Blood	7	IgG
71	0	Blood	1	IgG
72	1	Blood	2	IgG
73	3	Blood	3	IgG
74	7	Blood	4	IgG
75	14	Blood	5	IgG
76	30	Blood	6	IgG
77	120	Blood	7	IgG
78	0	Blood	1	IgG
79	1	Blood	2	IgG
80	3	Blood	3	IgG
81	7	Blood	4	IgG
82	14	Blood	5	IgG
83	30	Blood	6	IgG
84	120	Blood	7	IgG
85	0	Blood	1	IgG
86	1	Blood	2	IgG
87	3	Blood	3	IgG
88	7	Blood	4	IgG
89	14	Blood	5	IgG
90	30	Blood	6	IgG
91	120	Blood	7	IgG
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94	3	Blood	3	IgG
95	7	Blood	4	IgG
96	14	Blood	5	IgG
97	30	Blood	6	IgG
98	120	Blood	7	IgG
99	0	Blood	1	IgG
100	1	Blood	2	IgG
101	3	Blood	3	IgG
102	7	Blood	4	IgG
103	14	Blood	5	IgG
104	30	Blood	6	IgG
105	120	Blood	7	IgG
106	0	Blood	1	IgG
107	1	Blood	2	IgG
108	3	Blood	3	IgG
109	7	Blood	4	IgG
110	14	Blood	5	IgG
111	30	Blood	6	IgG

112	120	Blood	7	IgG
113	0	Blood	1	IgG
114	1	Blood	2	IgG
115	3	Blood	3	IgG
116	7	Blood	4	IgG
117	14	Blood	5	IgG
118	30	Blood	6	IgG
119	120	Blood	7	IgG
120	0	Blood	1	IgG
121	1	Blood	2	IgG
122	3	Blood	3	IgG
123	7	Blood	4	IgG
124	14	Blood	5	IgG
125	30	Blood	6	IgG
126	120	Blood	7	IgG
127	0	Blood	1	IgG
128	1	Blood	2	IgG
129	3	Blood	3	IgG
130	7	Blood	4	IgG
131	14	Blood	5	IgG
132	30	Blood	6	IgG
133	120	Blood	7	IgG
134	0	Blood	1	IgG
135	1	Blood	2	IgG
136	3	Blood	3	IgG
137	7	Blood	4	IgG
138	14	Blood	5	IgG
139	30	Blood	6	IgG
140	120	Blood	7	IgG
141	0	Blood	1	IgG
142	1	Blood	2	IgG
143	3	Blood	3	IgG
144	7	Blood	4	IgG
145	14	Blood	5	IgG
146	30	Blood	6	IgG
147	120	Blood	7	IgG
148	0	Blood	1	IgG
149	1	Blood	2	IgG
150	3	Blood	3	IgG
151	7	Blood	4	IgG
152	14	Blood	5	IgG
153	30	Blood	6	IgG
154	120	Blood	7	IgG

155	0	Blood	1	IgG
156	1	Blood	2	IgG
157	3	Blood	3	IgG
158	7	Blood	4	IgG
159	14	Blood	5	IgG
160	30	Blood	6	IgG
161	120	Blood	7	IgG
162	0	Blood	1	IgG
163	1	Blood	2	IgG
164	3	Blood	3	IgG
165	7	Blood	4	IgG
166	14	Blood	5	IgG
167	30	Blood	6	IgG
168	120	Blood	7	IgG
169	0	Blood	1	IgG
170	1	Blood	2	IgG
171	3	Blood	3	IgG
172	7	Blood	4	IgG
173	14	Blood	5	IgG
174	30	Blood	6	IgG
175	120	Blood	7	IgG
176	0	Blood	1	IgG
177	1	Blood	2	IgG
178	3	Blood	3	IgG
179	7	Blood	4	IgG
180	14	Blood	5	IgG
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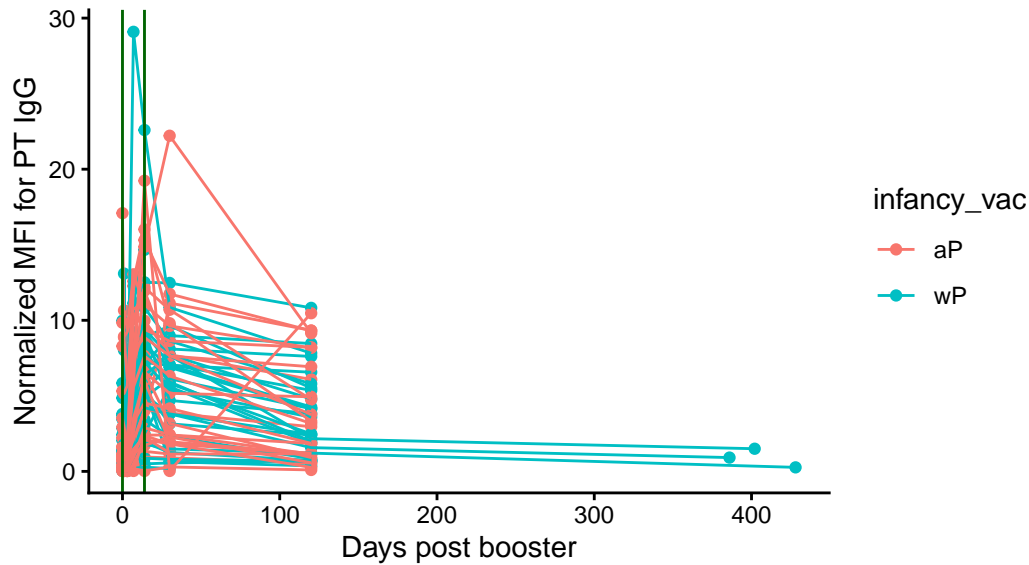
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        MFI_normalised,
        color=infancy_vac,
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    theme_classic() +
    geom_vline(xintercept=0, col="darkgreen") +
    geom_vline(xintercept =14, col="darkgreen") +
    labs(title="2020 dataset IgG PT",
         subtitle = "Dashed lines indicate day 0 (pre-boost) and 14 (apparent peak levels)",x=
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2020 dataset IgG PT

Dashed lines indicate day 0 (pre-boost) and 14 (apparent peak levels)



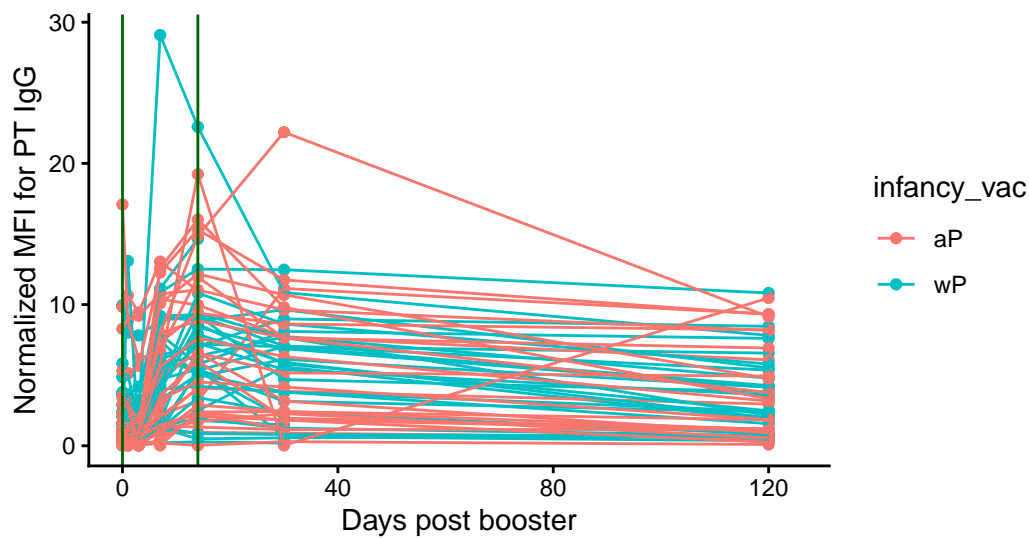
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pt_2020 |>
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    geom_line() +
    theme_classic() +
    geom_vline(xintercept=0, col="darkgreen") +
    geom_vline(xintercept =14, col="darkgreen") +
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    labs(title="2020 dataset IgG PT",
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Warning: Removed 3 rows containing missing values or values outside the scale range (`geom_point()`).

Warning: Removed 3 rows containing missing values or values outside the scale range (`geom_line()`).

2020 dataset IgG PT

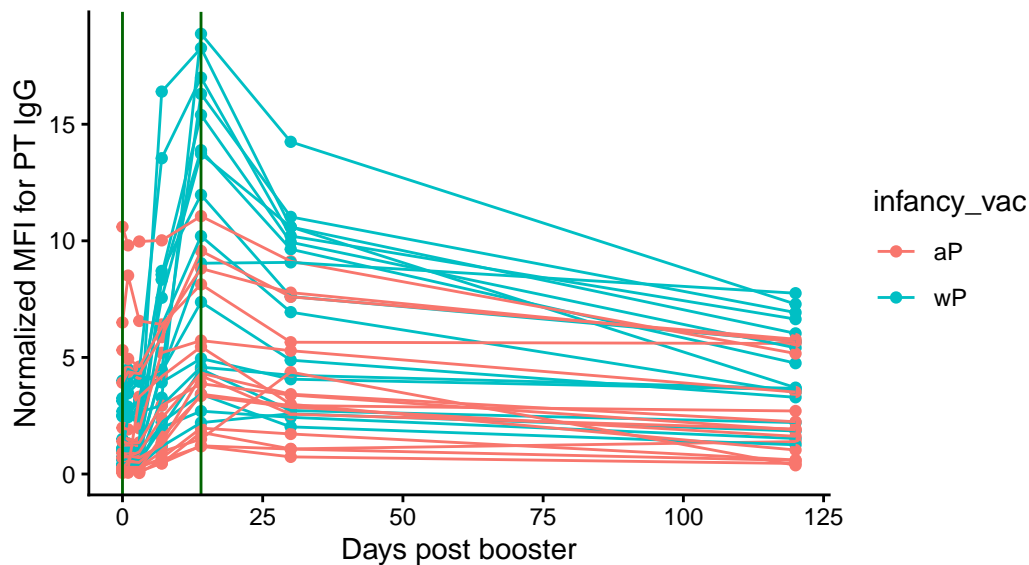
Dashed lines indicate day 0 (pre-boost) and 14 (apparent peak levels), scale cropped at 125 days for better comparison with 2021



```
pt_2021 |>
  ggplot() +
    aes(planned_day_relative_to_boost,
        MFI_normalised,
        color=infancy_vac,
        group=subject_id) +
    geom_point() +
    geom_line() +
    theme_classic() +
    geom_vline(xintercept=0, col="darkgreen") +
    geom_vline(xintercept =14, col="darkgreen") +
    labs(title="2021 dataset IgG PT",
         subtitle = "Dashed lines indicate day 0 (pre-boost) and 14 (apparent peak levels)",x=
```

2021 dataset IgG PT

Dashed lines indicate day 0 (pre-boost) and 14 (apparent peak levels)



Q18. Does this trend look similar for the 2020 dataset?

Hard to tell - the 2020 trend looks quite smushed because of twice the number of days being recorded. I would guess probably.

Actually, no, MFIs were HIGHER in 2020 at 14 days.

System setup

```
sessionInfo()
```

```
R version 4.5.1 (2025-06-13 ucrt)
Platform: x86_64-w64-mingw32/x64
Running under: Windows 11 x64 (build 26200)
```

```
Matrix products: default
LAPACK version 3.12.1
```

```
locale:
[1] LC_COLLATE=English_United States.utf8
[2] LC_CTYPE=English_United States.utf8
[3] LC_MONETARY=English_United States.utf8
```

```
[4] LC_NUMERIC=C
[5] LC_TIME=English_United States.utf8
```

```
time zone: America/Los_Angeles
tzcode source: internal
```

```
attached base packages:
```

```
[1] stats      graphics  grDevices  utils      datasets  methods    base
```

```
other attached packages:
```

```
[1] dplyr_1.1.4      lubridate_1.9.4 jsonlite_2.0.0  ggplot2_4.0.1
```

```
loaded via a namespace (and not attached):
```

```
[1] vctrs_0.6.5      cli_3.6.5        knitr_1.50       rlang_1.1.6
[5] xfun_0.54        generics_0.1.4   S7_0.2.1         labeling_0.4.3
[9] glue_1.8.0       htmltools_0.5.8.1 scales_1.4.0     rmarkdown_2.30
[13] grid_4.5.1       evaluate_1.0.5   tibble_3.3.0     fastmap_1.2.0
[17] yaml_2.3.10      lifecycle_1.0.4  compiler_4.5.1   RColorBrewer_1.1-3
[21] timechange_0.3.0 pkgconfig_2.0.3  rstudioapi_0.17.1 farver_2.1.2
[25] digest_0.6.39    R6_2.6.1         tidyselect_1.2.1 pillar_1.11.1
[29] magrittr_2.0.4   withr_3.0.2      tools_4.5.1      gtable_0.3.6
```