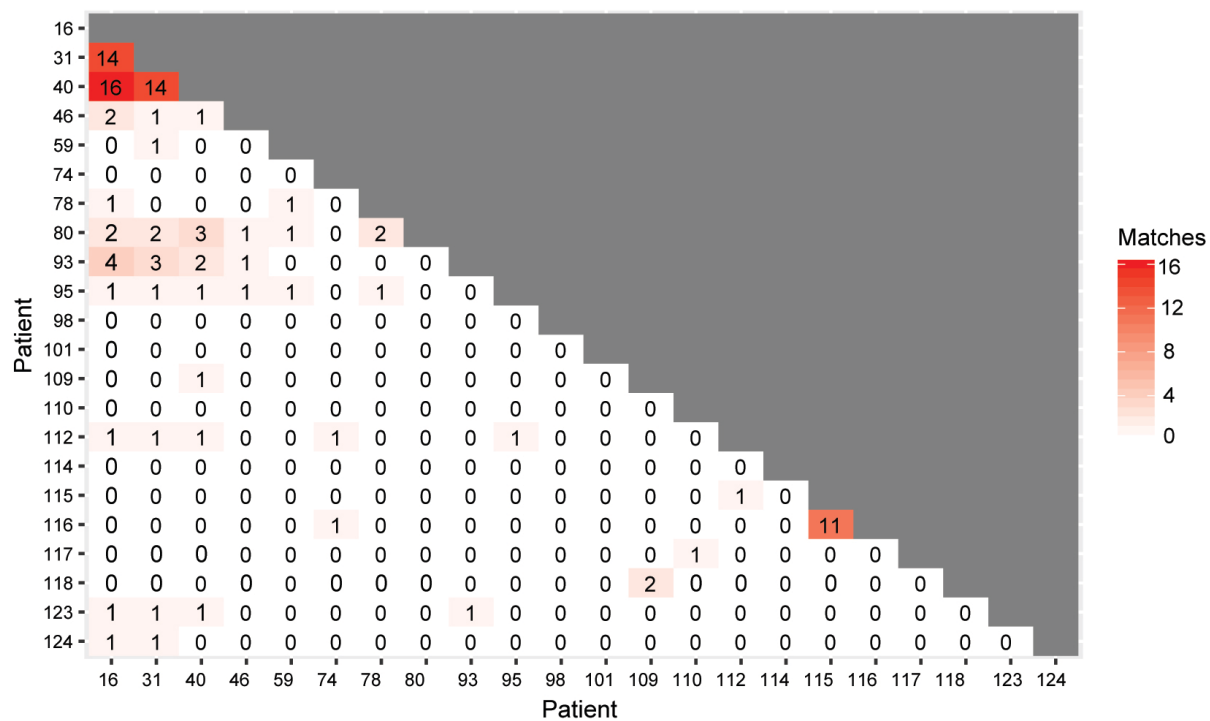
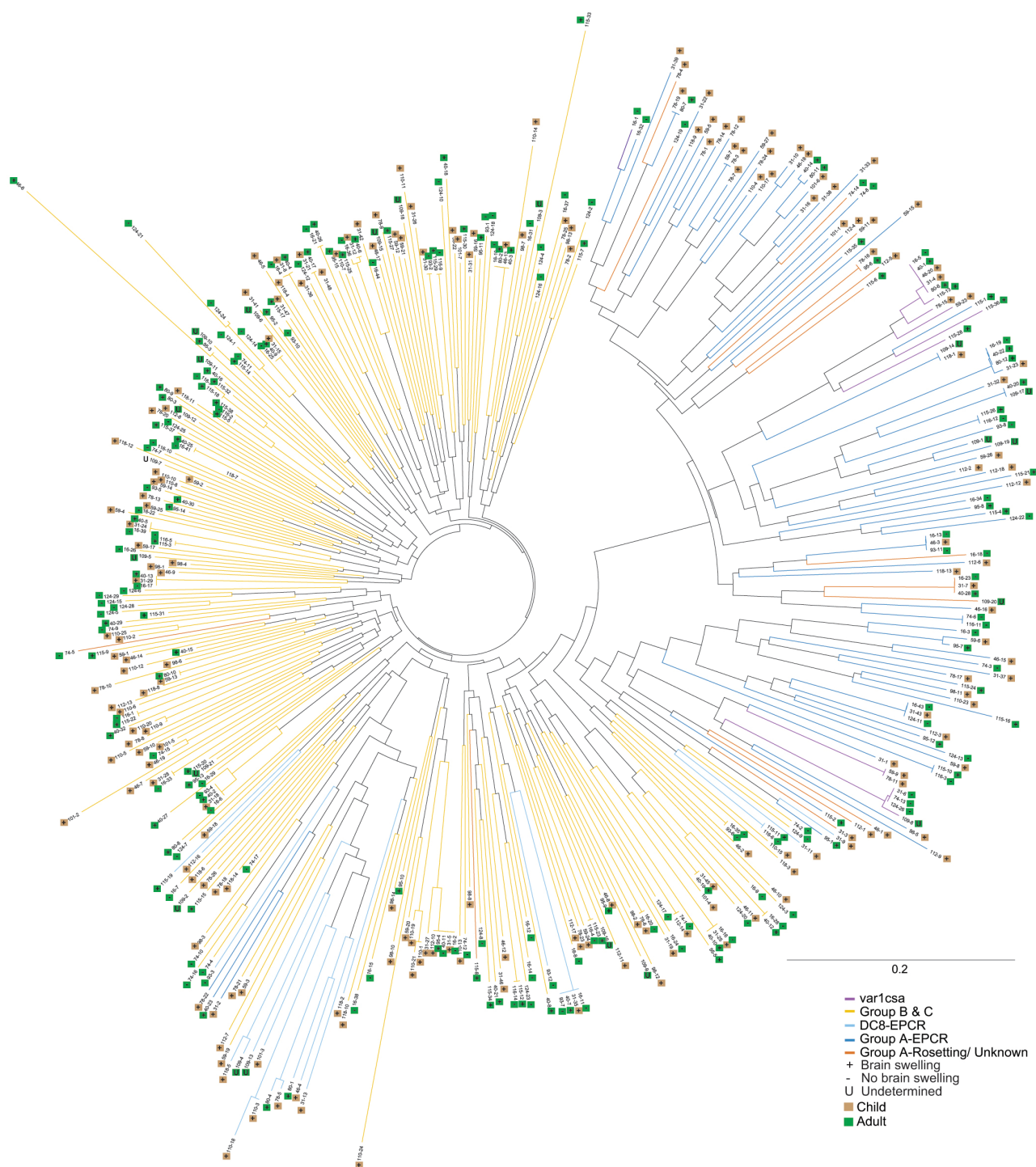


SUPPLEMENTAL DATA

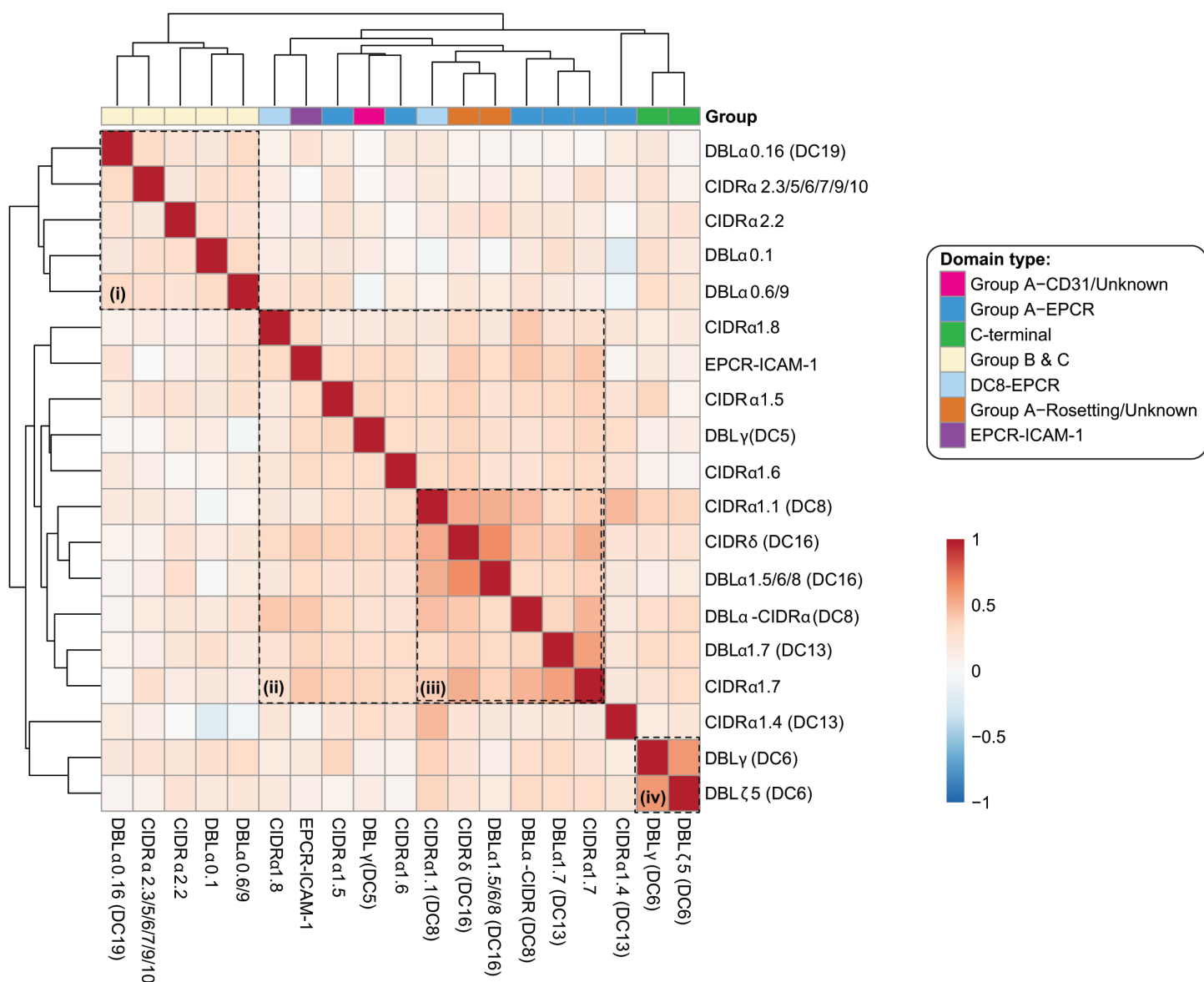


Supplemental Figure 1: Shared DBLα tags determined by NGS analysis.

Summary of the number of shared DBLα tags ($\geq 96\%$ nucleotide identity) between patients.

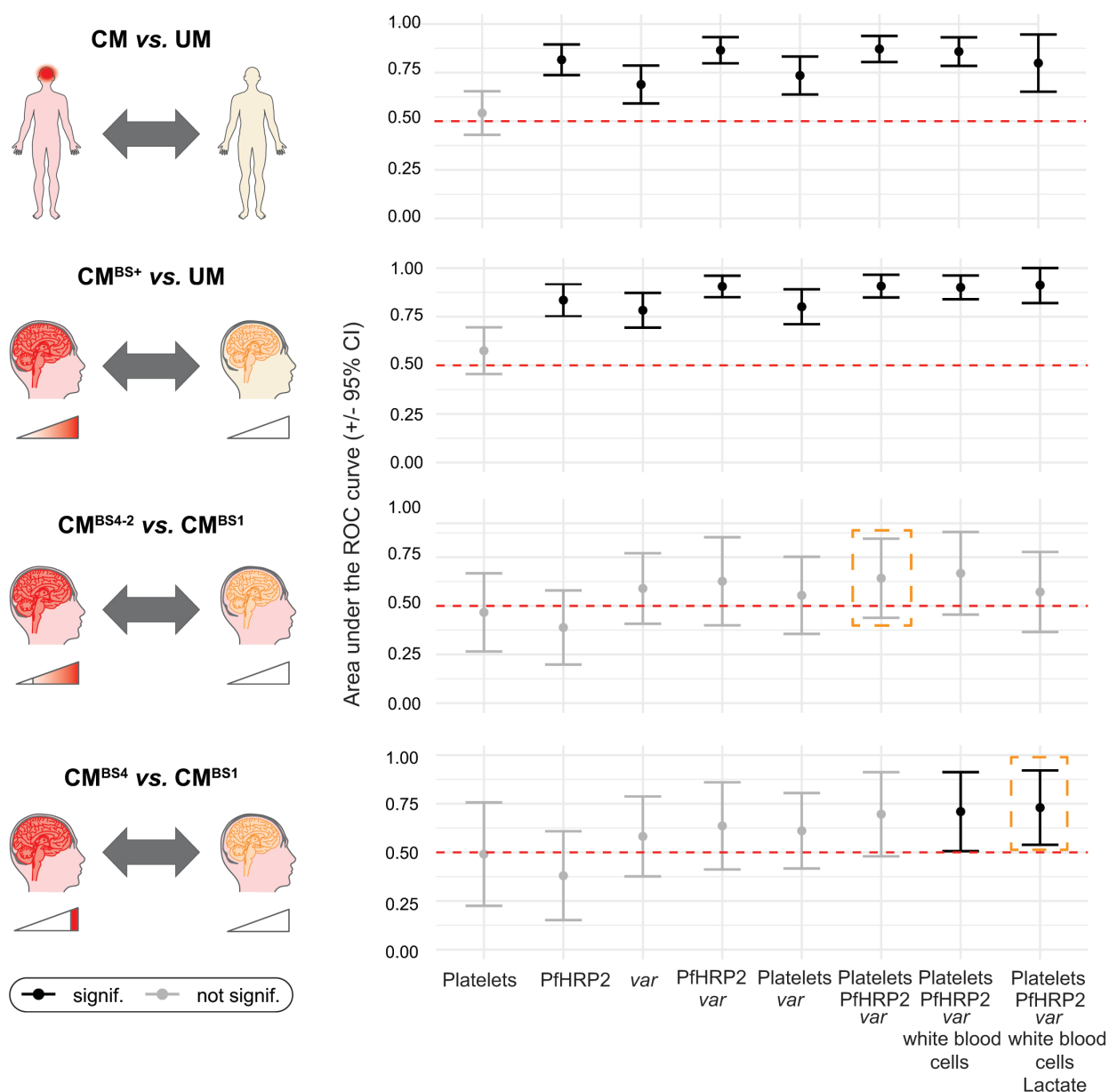


Supplemental Figure 2: Phylogenetic tree of DBL α tags from the Rourkela cohort labeled by brain swelling category, age and patient number. Neighbor-joining tree of translated DBL α sequences amplified from CM patients.

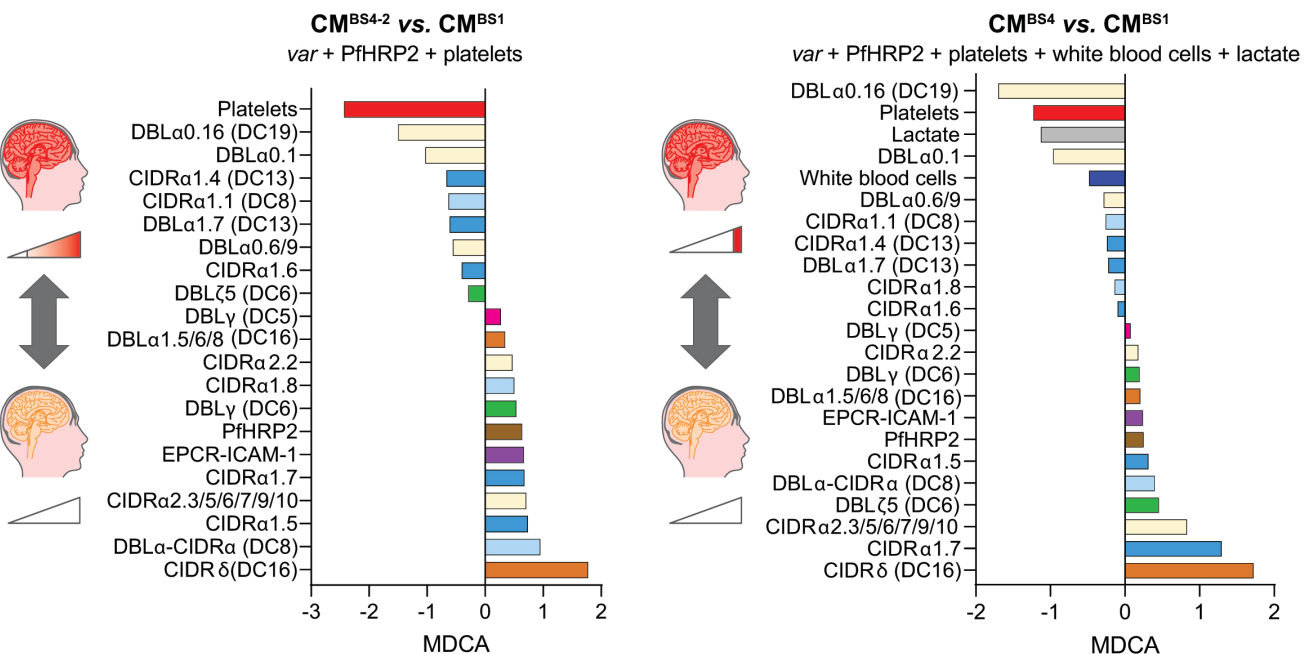


Supplemental Figure 3: Unsupervised hierarchical clustering of the var primers in the combined cohorts. Cluster (i) includes amplified transcripts from Group B and C, cluster (ii) from Group A and DC8-EPCR, cluster (iii) includes Group A-Rosetting/Unknown, Group A-EPCR and DC8-EPCR, cluster (iv) includes C-terminal domains from DC6.

A

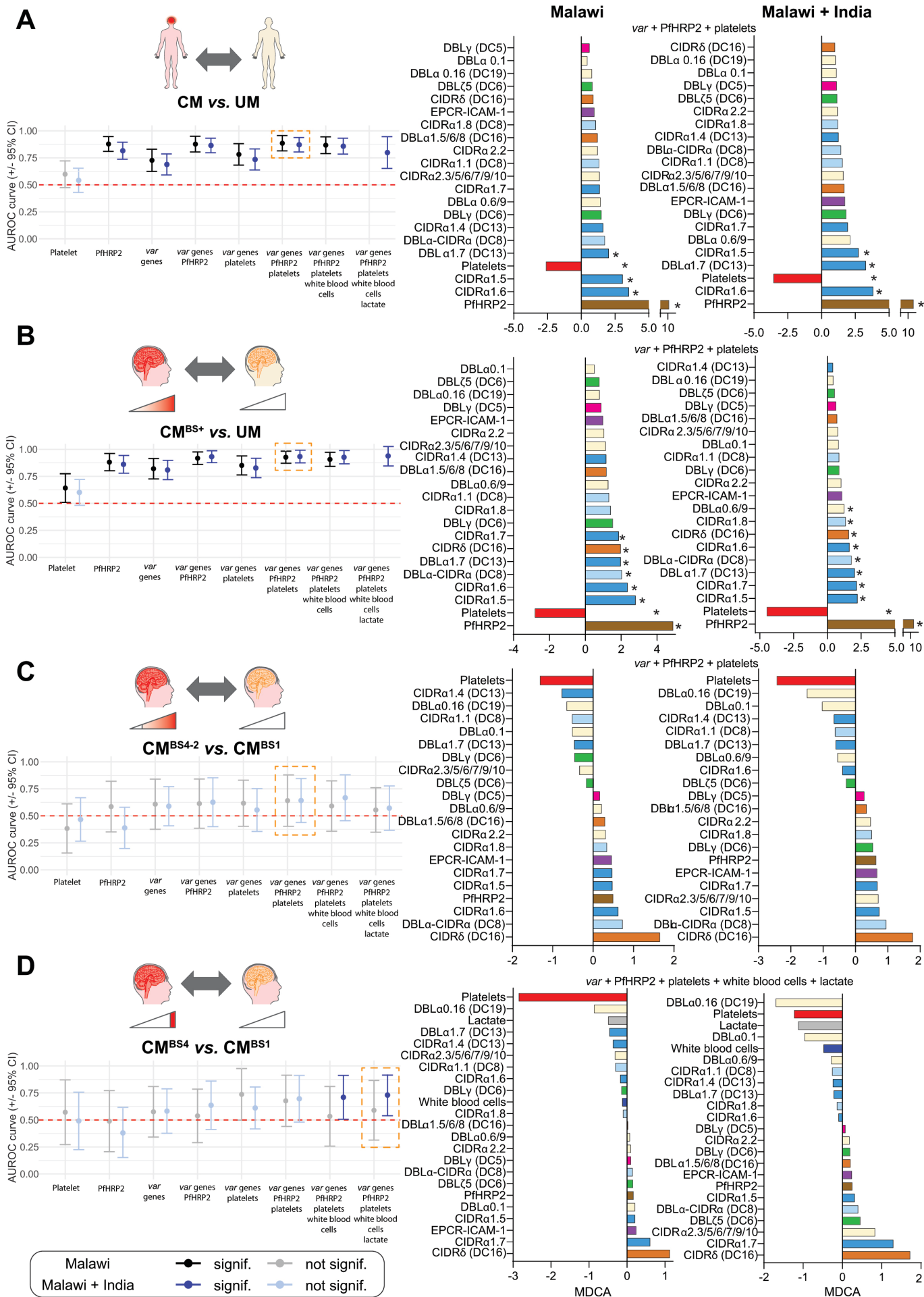


B



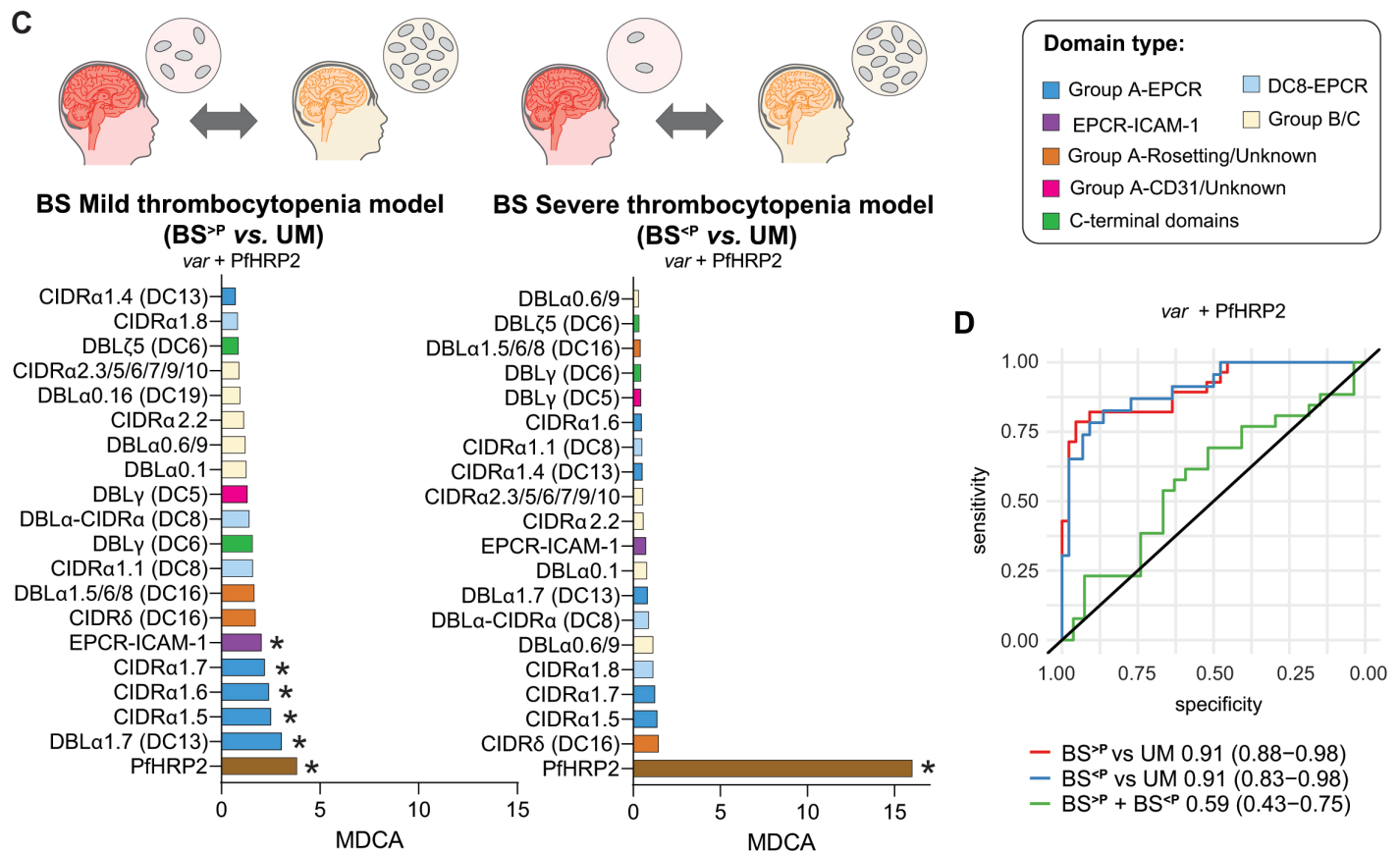
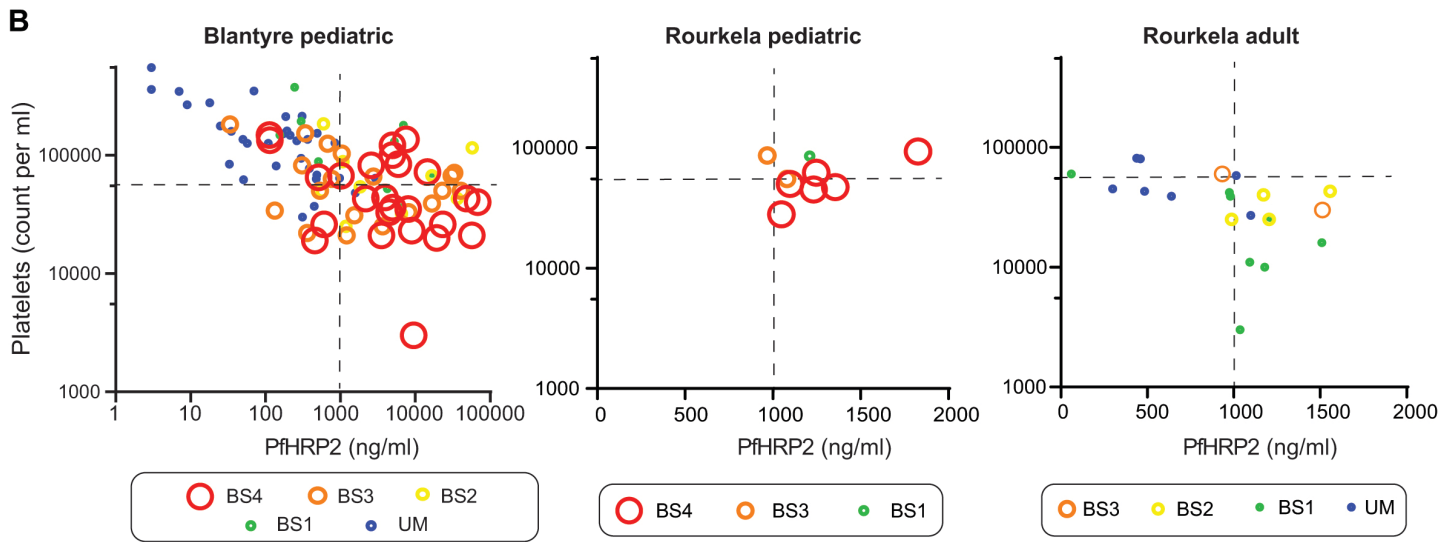
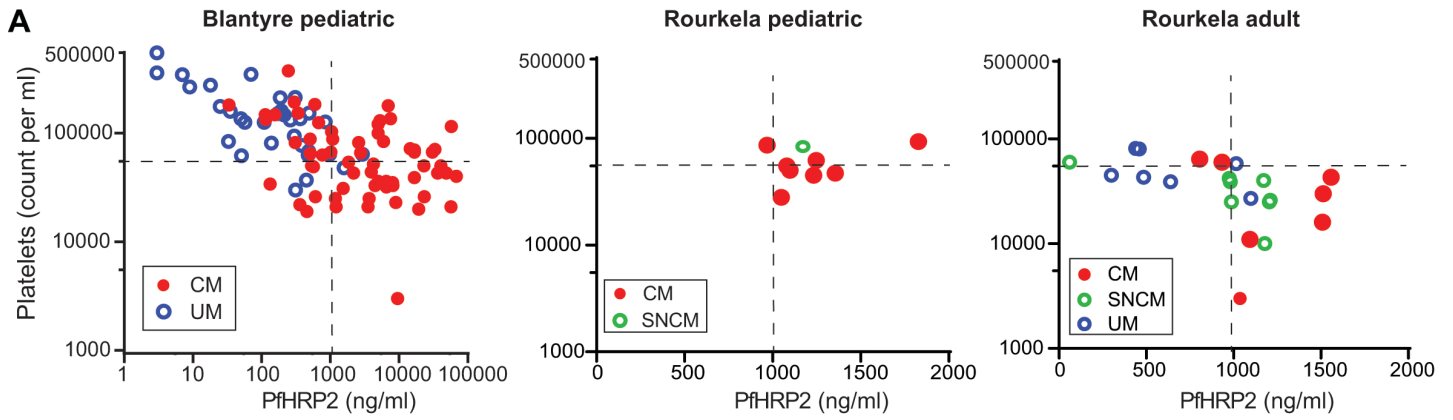
Supplemental Figure 4: Performance of predictors in machine learning models

(A). Performance of random forest models trained on different combinations of host and parasite factors in discriminating CM vs. UM, CM with brain swelling (CM^{BS+}) vs. UM, CM with brain swelling (CM^{BS2-4}) vs. CM without brain swelling (CM^{BS1}), and CM with severe brain swelling (CM^{BS4}) vs. CM without brain swelling (CM^{BS1}) in Malawi and India cohorts. Points indicate model performance in terms of ROC AUC with error bars showing confidence intervals (CI). The orange dashed boxes indicates models shown in the bar graphs in B. (B) Bar graphs representing the importance of parasite and host features in random forest models that classify CM with brain swelling (CM^{BS2-4}) vs. CM without brain swelling (CM^{BS1}) (left panel), and CM with severe brain swelling (CM^{BS4}) vs. CM without brain swelling (CM^{BS1}) (right panel).



Supplemental Figure 5: Comparison of random forest model performance between the Malawi cohort alone and the combined Malawi and India cohort.

Models were trained on different combinations of host and parasite factors in discriminating (A) CM vs. UM, (B) CM with brain swelling (CM^{BS+}) vs. UM, (C) CM with brain swelling (CM^{BS2-4}) vs. CM without brain swelling (CM^{BS1}), and (D) CM with severe brain swelling (CM^{BS4}) vs. CM without brain swelling (CM^{BS1}). Left: Points indicate model performance in terms of ROC AUC with error bars showing confidence intervals (CI). The orange dashed boxes indicate which models are represented in the right. Right: Bar graphs represent the importance of factors in random forest models. Positive MDCA indicates greater presence in CM patients (A), CM with brain swelling (CM^{BS+} or CM^{BS2-4}) (B and C), and CM with severe brain swelling (CM^{BS4}) (D). Asterisks: significant difference between groups measured by mProbes algorithm ([FWER] of ≤ 0.2).



Supplemental Figure 6: Machine learning models of brain swelling in CM patients with different platelet levels.

(A) Scatter plot showing the relationship between platelet levels, PfHRP2 levels and disease category in Blantyre and Rourkela. Dashed lines indicate divisions into high/low parasite biomass and thrombocytopenia groups for each cohort.

(B) Scatter plot showing the relationship between platelet levels, PfHRP2 levels and brain swelling score in Blantyre and Rourkela. Dashed lines indicate divisions into high/low parasite biomass and thrombocytopenia groups for each cohort.

(C) Bar graphs representing the importance of parasite factors in random forest models that classify brain swelling *vs.* UM patients with different degrees of thrombocytopenia. Left: Brain swelling patients with mild thrombocytopenia *vs.* UM. Right: Brain swelling with severe thrombocytopenia *vs.* UM. Positive MDCA indicates greater presence in brain swelling than in UM patients. Asterisks: significant difference between groups measured by mProbes algorithm ([FWER] of ≤ 0.2). (D) ROC curves showing the predictive performance of the models. Performance is measured by area under the curve, indicated in the legend with 95% confidence intervals in parentheses.

Supplemental Table 1: Cohort characteristics. Clinical, laboratory and radiological features of the 39 patients included in the study.

Patient Characteristics	ALL PATIENTS (n=38*)			ADULTS (n=27)			CHILDREN (n=11)		
	Swelling	No swelling	p-value	Swelling	No swelling	p-value	Swelling	No swelling	p-value
Sample size (n)	18	20		8	19		10	1	
Age (years), Median [IQR]	11 [5- 25.5]	31.5 [22.25-45]	0.0004	26 [24.2, 29.5]	33 [26, 45]	<i>0.1</i>	5 [5, 9.25]	4 [4, 4]	<i>0.4</i>
Male, n (%)	12 (66.6)	12 (60)		4 (50)	12 (63.1)		08 (80)	0 (0)	
Parasitemia (/μL), Median [IQR]	10780 [397, 73910]	236060 [26875, 608438]	0.003	4974 [313, 14832]	299970 [17500, 66000]	0.002	20135 [1160, 148524]	126500 [126500, 126500]	<i>0.8</i>
PfHRP2 (ng/ml), Median [IQR]	1172 [1010, 1354]	1014 [458.9, 1172]	0.04	1172 [987.1, 1513]	997.3 [453.9, 1172]	0.09	1165 [1028, 1353]	1172 [1172, 1172]	<i>0.8</i>
Platelet (x10 ³ /μL), Median [IQR]	43 [29, 57.5]	42.5 [23.5, 65.0]	<i>0.8</i>	38 [26.25, 42.25]	42 [21, 59]	<i>0.5</i>	50 [36.5, 74]	85 [85, 85]	<i>0.2</i>
Hemoglobin (g/dL), Median [IQR]	7 [6.05, 8.37]	7.95 [5.85, 11.3]	<i>0.2</i>	8.1 [6.60, 8.52]	8.3 [6.3, 11.4]	<i>0.6</i>	6.45 [5.55, 8.1]	4.9 [4.9, 4.9]	<i>0.2</i>
Lactate (mmol/L), Median [IQR]	3.60 [2.55, 6.87]	7.0 [2.45, 16.5]	<i>0.3</i>	3.8 [3.0, 8.6]	7 [2.45, 16.5]	<i>0.7</i>	3.4 [2.4, 6.3]	-	-
Bilirubin (mg/dL), Mean ± SEM	5.53 ± 1.61	3.77 ± 1.34	<i>0.4</i>	8.8 ± 2.82	3.77 ± 1.34	<i>0.07</i>	2.25 ± 0.32	-	-
Creatinine (mg/dL), Mean ± SEM	2.39± 0.7	2.17 ± 0.45	<i>0.7</i>	3.85 ± 1.32	2.17 ± 0.45	<i>0.1</i>	1.2 ± 0.5	-	-
Coma score, Median [IQR]	8 [6, 11]	15 [10, 15]	0.0003	8 [7, 15]	15 [10, 15]	0.002	7.5 [5.5, 8.5]	15 [15, 15]	<i>0.06</i>
Severe malarial anemia, n (%)	4 (22.2)	8 (40)		2 (25)	7 (36.9)		2 (20)	1 (100)	
Jaundice, n (%)	9 (50)	6 (30)		7 (87.5)	6 (31.6)		2 (20)	0 (0)	
Acute kidney injury, n (%)	5 (27.7)	4 (20)		4 (50)	4 (21)		1 (10)	0 (0)	
Respiratory distress n (%)	0 (0)	0 (0)		0 (0)	0 (0)		0 (0)	0 (0)	
Mortality, n (%)	1 (5.5)	0 (0)		0 (0)	0 (0)		1 (10)	0 (0)	
Brain swelling, n (%)	18 (100)	0 (0)		8 (100)	0 (0)		10 (100)	0 (0)	
Brain swelling score (scale 1-4)									
1 - no swelling, n (%)	0 (0)	20 (100)		0 (0)	19 (100)		0 (0)	1 (100)	
2 - mild swelling, n (%)	5 (27.8)	0 (0)		5 (62.5)	0 (0)		0 (0)	0 (0)	
3 - moderate swelling, n (%)	6 (33.3)	0 (0)		3 (37.5)	0 (0)		3 (30)	0 (0)	
4 - severe swelling, n (%)	7 (38.9)	0 (0)		0 (0)	0 (0)		7 (70)	0 (0)	

*Brain swelling scores were undetermined due to motion artefacts during MRI, for one patient (ID#109). IQR, interquartile range, SEM: Standard error of mean. p-values estimated from Mann Whitney test or unpaired t-test.

Supplemental Table 2: Characteristics of malaria patients excluded from *var* analyses (related to Table 1).

Patient Characteristic	var Typed cases (n = 39)	Excluded cases (n = 92)	<i>p-value</i>
Age (years), median [IQR]	26 [10, 35]	29.5 [20.25, 47.0]	0.0481
Female: Male, n (%)	14 (35.9): 25 (64.9)	24 (26.1): 68 (73.9)	
Smear score, median [IQR]	NA	NA	
Parasitemia (/μl), median [IQR]	66880 [4080, 338250]	2730 [409, 60000]	0.0028
PfHRP2 (ng/ml), median [IQR]	1080 [869.8, 1221]	133.6 [13.06, 878.9]	<0.0001
Hemoglobin (g/dl), median [IQR]	7.6 [5.7, 10.1]	8.5 [6.67, 10.5]	0.17
Platelets (10 ³ /μl), median [IQR]	43 [27.25, 60.0]	50 [29.35, 93.0]	0.06
Total WBC (10 ³ /μl), median [IQR]	6.8 [4.8, 11.7]	7.8 [5.4, 14.0]	0.31
Lactate (mmol/L), median [IQR]	3.8 [2.6, 12.5]	4.2 [2.5, 6.7]	0.13
Glasgow coma score, median [IQR]	15 [8,15]	11 [9,15]	0.8
Severe malarial anemia, adults n (%)	9 (32.1)	19 (26.4)	
Severe malarial anemia, children n (%)	3 (27.2)	2 (11.1)	
Respiratory distress, n (%)	1(2.6)	10 (10.9)	
Brain swelling, n (%)	18 (47.4) §	36 (41.9) §	0.16
Brain Swelling score (scale 1-4)			
1- No swelling, n (%)	20 (52.6)	50 (58.1)	
2-Mild swelling, n (%)	5 (13.2)	21 (24.4)	
3-Moderate swelling, n (%)	6 (15.8)	5 (5.8)	
4-Severe swelling, n (%)	7 (18.4)	10 (11.6)	
Mortality	2 (5.1)	7 (7.6)	

§ Brain swelling scores were unavailable due to motion artefacts during MRI, for one patient in included group, hence (n=38) and 6 patients in excluded group, hence (n=86). IQR, interquartile range; p-values estimated as per Wilcoxon rank-sum or unpaired t-test.

Supplemental Table 3. Table showing number of DBL α tags per patient at the 90% cut-off.

Patient #	Patient ID	0.9 cut-off
1	16	44
2	31	48
3	40	32
4	46	20
5	59	27
6	74	17
7	78	26
8	80	12
9	93	13
10	95	15
11	98	17
12	101	7
13	109	21
14	110	25
15	112	18
16	114	14
17	115	38
18	116	14
19	117	14
20	118	14
21	123	4
22	124	29

Supplemental Table 4. DBL α tags amplified from patients. Related to Figure 2.

Patient ID	Abundance ranking	GenBank Accession #	Cluster size ^a	Total count ^b	Dominant count ^c	Dominant score ^d	Dominant type ^e	Top hit	Top hit E-val	Top type	2nd hit	2nd hit E-val	2nd hit type	3rd hit	3rd hit E-val	3rd hit type	4th hit	4th hit E-val	4th hit type	5th hit	5th hit E-val	5th hit type
16	1	MW014366	24832	5	5	435.0	EPCR	IGHvar39	2.14E-95	EPCR	KX154909.1	4.67E-87	EPCR	KX154890.1	2.17E-85	EPCR	KX154923.1	2.17E-85	EPCR	KX154937.1	2.17E-85	EPCR
	2	MW014367	10799	5	5	327.9	Group B/C	IT4var33	9.31E-85	Group B/C	PFL1955w	2.06E-66	Group B/C	KX154819.1	5.77E-62	Group B/C	IGHvar31	9.65E-60	Group B/C	KX154910.1	1.25E-58	Group B/C
	3	MW014368	9584	5	5	521.7	EPCR	KX154875.1	9.76E-109	EPCR	KX154879.1	9.76E-109	EPCR	KX154949.1	9.76E-109	EPCR	AAQ73928	2.11E-105	EPCR	KX154818.1	9.97E-94	EPCR
	4	MW014369	8098	5	5	164.1	Group B/C	IT4var63	4.07E-43	Group B/C	HB3var47	1.48E-32	Group B/C	HB3var09	1.48E-32	Group B/C	DD2var44	6.91E-31	Group B/C	DD2var35	1.16E-28	Group B/C
	5	MW014370	7316	5	5	869.1	var1csa	DD2var25	2.50E-179	var1csa	AJ420411	2.50E-179	var1csa	KX154917.1	4.19E-177	var1csa	IGHvar11	2.54E-169	var1csa	AAM55194	1.18E-167	var1csa
	6	MW014371	6881	5	5	274.5	Group B/C	IGHvar08	9.49E-60	Group B/C	PFL1960w	2.06E-56	Group B/C	DD2var34	2.66E-55	Group B/C	PFCLINvar54	3.44E-54	Group B/C	DD2var18	1.60E-52	Group B/C
	7	MW014372	5679	5	4	159.6	Group B/C	PFCLINvar65	1.81E-41	Group B/C	IT4var59	1.81E-41	Group B/C	HB3var27	1.81E-41	Group B/C	MAL8P1220	3.91E-38	Group B/C	IT4var06	1.82E-36	DC8
	8	MW014373	3791	5	5	135.8	Group B/C	IT4var41	6.69E-41	Group B/C	DD2var28	6.83E-26	Group B/C	KX154822.1	3.18E-24	Group B/C	KX154883.1	3.18E-24	Group B/C	KX154955.1	3.18E-24	Group B/C
	9	MW014374	3511	5	5	237.0	Group B/C	PFL0005w	2.85E-94	Group B/C	IGHvar15	1.11E-38	Group B/C	IGHvar21	3.99E-38	Group B/C	HB3var16	6.67E-36	Group B/C	KX154815.1	1.12E-33	Group B/C
	10	MW014375	3226	5	3	105.5	Group B/C	IT4var32b	1.91E-46	DC8	IT4var19	1.91E-46	DC8	RAJ116var10	6.98E-36	Group B/C	IT4var41	6.98E-36	Group B/C	DD2var39	6.98E-36	Group B/C
	11	MW014376	2830	5	3	158.2	DC8	KX154825.1	6.88E-71	DC8	KX154946.1	1.95E-56	DC8	IT4var39	1.55E-37	Group B/C	DD2var49	2.60E-35	EPCR	KX154870.1	4.35E-33	DC8
	12	MW014377	2753	5	4	201.6	Group B/C	KX154900.1	2.66E-65	Group B/C	PFCLINvar30	1.63E-52	DC8	IT4var30	1.63E-52	Group B/C	IT4var33	2.74E-45	Group B/C	PFB0010w	2.13E-41	Group B/C
	13	MW014378	2498	5	5	553.4	EPCR	KX154890.1	4.44E-122	EPCR	KX154923.1	9.62E-119	EPCR	KX154937.1	9.62E-119	EPCR	KX154857.1	4.54E-107	EPCR	KX154909.1	2.16E-90	EPCR
	14	MW014379	2309	5	4	106.8	Group B/C	IGHvar20	3.88E-38	Group B/C	PFCLINvar30	8.39E-35	DC8	KX154864.1	2.37E-25	Group B/C	IT4var17	8.51E-25	Group B/C	KX154832.1	1.84E-21	Group B/C
	15	MW014380	1861	5	4	171.4	Group B/C	KX154933.1	2.21E-60	DC8	PFCLINvar09	4.85E-47	Group B/C	IT4var13	1.36E-42	Group B/C	DD2var21	1.36E-42	Group B/C	PFCLINvar11	4.88E-42	Group B/C
	16	MW014381	1852	5	5	185.7	Group B/C	KX154848.1	9.33E-55	Group B/C	HB3var21	2.06E-36	Group B/C	IGHvar21	3.45E-34	Group B/C	IT4var29	4.46E-33	Group B/C	IT4var32a	7.47E-31	Group B/C
	17	MW014382	1487	5	5	210.6	Group B/C	PFCLINvar66	7.51E-56	Group B/C	IGHvar35	3.54E-44	Group B/C	RAJ116var30	2.13E-41	Group B/C	RAJ116var21	1.28E-38	Group B/C	IT4var39	3.60E-34	Group B/C
	18	MW014383	1483	5	3	240.6	Group A-Rosetting/Unknown	IT4var60	1.03E-88	Group A-Rosetting/Unknown	DD2var22	3.77E-78	Group A-Rosetting/Unknown	KX154959.1	1.35E-77	EPCR	IGHvar12	6.30E-76	Group A-Rosetting/Unknown	KX154890.1	1.36E-72	EPCR
	19	MW014384	1478	5	3	262.3	EPCR	IT4var02	4.41E-127	Group A-Rosetting/Unknown	KX154871.1	9.76E-109	EPCR	HB3var04	2.19E-80	Group A-Rosetting/Unknown	IT4var18	3.66E-78	EPCR	KX154893.1	1.32E-77	EPCR
	20	MW014385	1419	5	5	306.5	Group B/C	KX154862.1	2.99E-79	Group B/C	KX154851.1	1.09E-68	Group B/C	RAJ116var06	8.56E-60	Group B/C	IGHvar25	6.67E-56	Group B/C	MAL7P1.55	1.88E-46	Group B/C
	21	MW014386	1046	5	5	193.3	Group B/C	DD2var45	7.70E-61	Group B/C	HB3var30	1.71E-37	Group B/C	HB3var18	2.87E-35	Group B/C	MAL8P1220	6.21E-32	Group B/C	PFD0005w	2.23E-31	Group B/C
	22	MW014387	962	5	5	303.9	Group B/C	AY028643	5.79E-87	Group B/C	KX154971.1	2.77E-65	Group B/C	IGHvar40	1.31E-53	Group B/C	IGHvar03	2.19E-51	Group B/C	PF13_0364	2.83E-50	Group B/C
	23	MW014388	930	5	3	196.8	Group A-Rosetting/Unknown	KX154844.1	1.30E-72	Group A-Rosetting/Unknown	KX154891.1	2.19E-65	Group A-Rosetting/Unknown	HB3var1csa	2.84E-64	var1csa	KX154842.1	6.14E-61	Group A-Rosetting/Unknown	KX154869.1	1.35E-47	EPCR
	24	MW014389	889	5	5	230.9	Group B/C	KX154841.1	1.35E-72	Group B/C	RAJ116var33	1.37E-62	Group B/C	PFL0005w	1.09E-43	Group B/C	KX154851.1	2.39E-30	Group B/C	KX154970.1	2.41E-25	Group B/C
	25	MW014390	878	5	5	320.6	Group B/C	IT4var34	4.50E-73	Group B/C	PFCLINvar39	1.26E-68	Group B/C	PFD0630c	1.27E-63	Group B/C	KX154826.1	5.91E-62	Group B/C	PFD0635c	5.95E-57	Group B/C
	26	MW014391	778	5	4	161.1	Group B/C	IT4var68	1.22E-53	Group B/C	IT4var62	2.05E-46	Group B/C	PFD1245c	4.50E-33	Group B/C	PFCLINvar07	7.53E-31	Group B/C	IT4var06	3.50E-29	DC8
	28	MW014392	726	5	5	227.6	Group B/C	PFL0005w	6.17E-91	Group B/C	RAJ116var06	1.40E-52	Group B/C	PF08_0103	5.19E-32	Group B/C	HB3var16	3.13E-29	Group B/C	PFC0005w	1.88E-26	Group B/C
	29	MW014393	718	5	5	302.9	Group B/C	IT4var34	3.39E-69	Group B/C	DD2var18	2.64E-65	Group B/C	KX154826.1	1.24E-58	Group B/C	PFD0630c	5.76E-57	Group B/C	PF13_0364	2.07E-56	Group B/C
	31	MW014394	654	5	3	131.0	Group B/C	HB3var13	1.55E-52	Group B/C	IT4var33	7.25E-46	Group B/C	KX154825.1	2.63E-40	DC8	PFCLINvar30	5.69E-37	DC8	KX154866.1	9.51E-35	Group B/C

	32	MW01 4395	644	5	4	280.3	EPCR	IGHvar3 9	4.64E -92	EPCR	RAJ116 var19	7.98E -70	Group A- Rosetting/Unknow n	KX1549 23.1	2.24E -65	EPCR	KX1549 37.1	2.24E -65	EPCR	KX1548 57.1	2.25E -60	EPCR
	33	MW01 4396	625	5	5	234.7	Group B/C	RAJ116 var24	1.44E -52	Group B/C	PFC112 0c	4.04E -48	Group B/C	PFL0020 w	5.23E -47	Group B/C	KX1548 31.1	2.43E -45	Group B/C	DD2var2 4	2.43E -45	Group B/C
	34	MW01 4397	620	5	3	209.0	EPCR	DD2var4 0	1.03E -73	EPCR	DD2var0 9a	1.03E -73	EPCR	DD2var0 9b	1.03E -68	Group A- Rosetting/Unknow n	KX1548 86.1	1.04E -62	EPCR	PFF0020 c	4.84E -62	DC8
	35	MW01 4398	620	5	4	170.1	Group B/C	PFCLIN var15	8.53E -75	Group B/C	DD2var2 6	1.89E -56	Group B/C	KX1549 28.1	1.97E -26	DC8	IT4var2 9	5.51E -22	Group B/C	KX1548 84.1	9.23E -20	Group B/C
	36	MW01 4399	576	5	5	214.8	Group B/C	KX1548 19.1	6.32E -61	Group B/C	KX1548 80.1	4.99E -47	Group B/C	PFCLIN var66	3.02E -39	Group B/C	KX1548 60.1	1.41E -37	Group B/C	PFCLIN var64	1.10E -33	Group B/C
	37	MW01 4400	570	5	5	194.8	Group B/C	IGHvar3 4	1.35E -82	Group B/C	PFCLIN var47	2.42E -30	Group B/C	DD2var4 5	2.42E -30	Group B/C	PFCLIN var44	1.45E -27	Group B/C	DD2var4 6	1.45E -27	Group B/C
	38	MW01 4401	554	5	3	145.6	Group B/C	DD2var3 7	3.88E -58	Group B/C	IT4var33	1.09E -48	Group B/C	MAL6P 1.316	5.12E -42	DC8	KX1549 42.1	1.84E -41	DC8	PFL1955 w	6.62E -41	Group B/C
	39	MW01 4402	534	5	3	131.5	Group B/C	KX1548 66.1	9.31E -50	Group B/C	PFCLIN var39	7.25E -46	Group B/C	KX1549 28.1	1.57E -42	DC8	KX1548 29.1	4.40E -38	Group B/C	IT4var32 b	7.35E -36	DC8
	41	MW01 4403	520	5	5	218.5	Group B/C	HB3var2 8	1.55E -57	Group B/C	IGHvar4 0	5.65E -47	Group B/C	RAJ116 var30	9.53E -40	Group B/C	PFCLIN var11	3.43E -39	Group B/C	IT4var05	1.23E -38	Group B/C
	43	MW01 4404	508	5	4	359.2	EPCR	IT4var07	5.99E -106	EPCR	PF11_05 21	4.69E -97	EPCR	IT4var08	2.20E -90	Group A- Rosetting/Unknow n	KX1549 45.1	1.02E -88	EPCR	KX1549 03.1	2.26E -70	EPCR
	44	MW01 4405	490	5	5	195.7	Group B/C	DD2var1 8	3.32E -44	Group B/C	IGHvar1 7	1.54E -42	Group B/C	KX1549 22.1	9.29E -40	Group B/C	HB3var 32	1.55E -37	Group B/C	RAJ116 var26	2.60E -35	Group B/C
31	1	MW01 4406	1420 1	5	4	347.0	EPCR	HB3var0 2	1.20E -122	EPCR	DD2var3 2	4.50E -69	EPCR	IGHvar1 0	2.79E -69	Group A- Rosetting/Unknow n	KX1548 18.1	3.61E -68	EPCR	IGHvar3 0	4.67E -67	EPCR
	2	MW01 4407	1382 7	5	3	225.1	EPCR	KX1549 41.1	1.24E -87	DC8	IGHvar2 7	5.83E -76	EPCR	HB3var0 3	5.83E -76	EPCR	KX1549 35.1	2.10E -75	EPCR	KX1548 73.1	9.76E -74	DC8
	3	MW01 4408	7203	5	3	286.3	Group A- Rosetting/Unknow n	HB3var0 1	5.40E -131	Group A- Rosetting/Unknow n	DD2var0 4	7.34E -95	Group A- Rosetting/Unknow n	PF08_01 41	1.28E -62	Group A- Rosetting/Unknow n	AAQ73 928	2.19E -45	EPCR	KX1548 75.1	4.74E -42	EPCR
	4	MW01 4409	7137	5	5	869.1	var1csa	DD2var2 5	2.50E -179	var1csa	AJ42041 1	2.50E -179	var1csa	KX1549 17.1	4.19E -177	var1csa	IGHvar1 1	2.54E -169	var1csa	AAM55 194	1.18E -167	var1csa
	5	MW01 4410	7071	5	5	327.9	Group B/C	IT4var33	9.31E -85	Group B/C	PFL1955 w	2.06E -66	Group B/C	KX1548 19.1	5.77E -62	Group B/C	IGHvar3 1	9.65E -60	Group B/C	KX1549 10.1	1.25E -58	Group B/C
	6	MW01 4411	5457	5	5	849.2	var1csa	RAJ116 var02	5.15E -171	var1csa	PFCLIN var76	5.15E -171	var1csa	AF5471 59	5.15E -171	var1csa	KX1548 58.1	1.85E -170	var1csa	KX1548 20.1	2.40E -169	var1csa
	7	MW01 4412	3728	5	3	196.8	Group A- Rosetting/Unknow n	KX1548 44.1	1.30E -72	Group A- Rosetting/Unknow n	KX1548 91.1	2.19E -65	Group A- Rosetting/Unknow n	HB3var1 csa	2.84E -64	var1csa	KX1548 42.1	6.14E -61	Group A- Rosetting/Unknow n	KX1548 69.1	1.35E -47	EPCR
	8	MW01 4413	3565	5	5	164.1	Group B/C	IT4var63	4.07E -43	Group B/C	HB3var4 7	1.48E -32	Group B/C	HB3var0 9	1.48E -32	Group B/C	DD2var 44	6.91E -31	Group B/C	DD2var3 5	1.16E -28	Group B/C
	9	MW01 4414	3546	5	4	197.0	DC8	DD2var0 4	1.00E -63	Group A- Rosetting/Unknow n	KX1548 46.1	6.06E -56	DC8	KX1549 41.1	3.65E -53	DC8	KX1548 85.1	1.71E -46	DC8	KX1548 97.1	2.86E -44	DC8
	10	MW01 4415	3532	5	4	542.2	EPCR	KX1549 66.1	4.02E -172	EPCR	KX1548 69.1	5.31E -156	EPCR	KX1549 67.1	1.21E -117	EPCR	KX1549 54.1	2.67E -99	EPCR	DD2var2 2	2.75E -79	Group A- Rosetting/Unknow n
	11	MW01 4416	2244	5	5	474.9	DC8	KX1548 47.1	4.55E -132	DC8	KX1548 98.1	4.55E -132	DC8	KX1549 41.1	1.74E -86	DC8	KX1548 77.1	1.39E -67	DC8	KX1549 75.1	2.34E -60	DC8
	12	MW01 4417	2214	5	5	217.6	Group B/C	KX1548 19.1	6.32E -61	Group B/C	KX1548 80.1	1.07E -48	Group B/C	PFCLIN var66	6.50E -41	Group B/C	PFCLIN var64	2.35E -35	Group B/C	IT4var66	2.35E -35	Group B/C
	13	MW01 4418	1916	5	4	260.4	DC8	KX1548 56.1	4.46E -77	DC8	KX1549 41.1	4.46E -77	DC8	IT4var11	2.73E -64	Group B/C	KX1548 85.1	4.59E -57	DC8	KX1548 47.1	4.63E -52	DC8
	15	MW01 4419	1458	5	5	320.6	Group B/C	IT4var34	4.50E -73	Group B/C	PFCLIN var39	1.26E -68	Group B/C	PPD063 0c	1.27E -63	Group B/C	KX1548 26.1	5.91E -62	Group B/C	PPD063 5c	5.95E -57	Group B/C
	16	MW01 4420	1450	5	5	382.2	EPCR	KX1548 69.1	5.94E -91	EPCR	KX1549 66.1	2.14E -90	EPCR	KX1548 74.1	6.11E -71	EPCR	KX1549 67.1	1.32E -67	EPCR	KX1548 71.1	6.16E -66	EPCR
	18	MW01 4421	1047	5	5	274.5	Group B/C	IGHvar0 8	9.49E -60	Group B/C	PFL1960 w	2.06E -56	Group B/C	DD2var3 4	2.66E -55	Group B/C	PFCLIN var54	3.44E -54	Group B/C	DD2var1 8	1.60E -52	Group B/C
	19	MW01 4422	1014	5	5	167.0	Group B/C	KX1549 70.1	2.35E -55	Group B/C	PFL0005 w	3.11E -39	Group B/C	HB3var1 9	1.47E -27	Group B/C	RAJ116 var06	8.83E -25	Group B/C	KX1548 28.1	1.14E -23	Group B/C
	21	MW01 4423	873	5	5	246.2	Group B/C	IGHvar3 3	5.58E -62	Group B/C	IGHvar4 0	4.34E -58	Group B/C	IT4var34	5.70E -47	Group B/C	IT4var2 3	3.43E -44	Group B/C	KX1549 21.1	1.24E -38	Group B/C
	22	MW01 4424	829	5	4	233.6	EPCR	PFCLIN var32	4.84E -62	EPCR	KX1548 72.1	1.74E -61	EPCR	KX1548 74.1	1.35E -57	EPCR	PPD002 0c	1.35E -57	DC8	DD2var4 2	2.27E -55	EPCR
	23	MW01 4425	825	5	3	257.3	EPCR	IT4var02	2.05E -125	Group A- Rosetting/Unknow n	KX1548 71.1	4.54E -107	EPCR	HB3var0 4	1.02E -78	Group A- Rosetting/Unknow n	IT4var1 8	1.70E -76	EPCR	KX1548 93.1	6.13E -76	EPCR

	24	MW01 4426	822	5	3	131.5	Group B/C	KX1548 66.1	9.31E -50	Group B/C	PFCLIN var39	7.25E -46	Group B/C	KX1549 28.1	1.57E -42	DC8	KX1548 29.1	4.40E -38	Group B/C	IT4var32 b	7.35E -36	DC8
	25	MW01 4427	819	5	5	185.7	Group B/C	KX1548 48.1	9.33E -55	Group B/C	HB3var2 1	2.06E -36	Group B/C	IGHvar2 1	3.45E -34	Group B/C	IT4var2 9	4.46E -33	Group B/C	IT4var32 a	7.47E -31	Group B/C
	26	MW01 4428	698	5	5	167.4	Group B/C	KX1548 26.1	9.26E -44	Group B/C	IT4var33	2.61E -34	Group B/C	KX1548 65.1	5.65E -31	Group B/C	KX1549 68.1	5.65E -31	Group B/C	IT4var30	5.65E -31	Group B/C
	27	MW01 4429	684	5	4	188.9	Group B/C	IGHvar3 1	4.30E -53	Group B/C	IT4var34	1.56E -47	Group B/C	KX1548 31.1	7.25E -46	Group B/C	IGHvar4 0	2.61E -45	Group B/C	PFCLIN var30	1.59E -32	DC8
	28	MW01 4430	678	5	5	234.7	Group B/C	RAJ116 var24	1.44E -52	Group B/C	PFC112 0c	4.04E -48	Group B/C	PFL0020 w	5.23E -47	Group B/C	KX1548 31.1	2.43E -45	Group B/C	DD2var2 4	2.43E -45	Group B/C
	29	MW01 4431	676	5	5	210.6	Group B/C	PFCLIN var66	7.51E -56	Group B/C	IGHvar3 5	3.54E -44	Group B/C	RAJ116 var30	2.13E -41	Group B/C	RAJ116 var21	1.28E -38	Group B/C	IT4var39	3.60E -34	Group B/C
	30	MW01 4432	673	5	5	282.3	Group B/C	IGHvar1 8	2.65E -70	Group B/C	PFL1955 w	3.45E -64	Group B/C	IT4var34	5.81E -57	Group B/C	IT4var3 3	5.81E -57	Group B/C	KX1548 84.1	1.66E -37	Group B/C
	31	MW01 4433	636	5	5	235.6	Group B/C	AAC474 38	9.64E -55	Group B/C	MAL7P 1.56	2.09E -51	Group B/C	IT4var12	4.52E -48	Group B/C	RAJ116 var36	3.52E -44	Group B/C	DD2var2 4	7.61E -41	Group B/C
	32	MW01 4434	582	5	3	274.0	EPCR	IGHvar3 2	2.69E -94	EPCR	IGHvar0 9	1.25E -92	EPCR	KX1548 45.1	2.71E -89	EPCR	HB3var 1csa	2.73E -84	var1csa	KX1549 13.1	3.58E -73	Group A- Rosetting/Unknow n
	33	MW01 4435	573	5	3	226.7	EPCR	DD2var2 2	2.69E -129	Group A- Rosetting/Unknow n	IT4var60	2.20E -90	Group A- Rosetting/Unknow n	KX1549 54.1	1.04E -78	EPCR	KX1549 36.1	6.25E -76	EPCR	KX1549 66.1	2.91E -74	EPCR
	35	MW01 4436	550	5	3	158.2	DC8	KX1548 25.1	6.88E -71	DC8	KX1549 46.1	1.95E -56	DC8	IT4var39	1.55E -37	Group B/C	DD2var 49	2.60E -35	EPCR	KX1548 70.1	4.35E -33	DC8
	36	MW01 4437	541	5	4	197.0	Group B/C	PFCLIN var30	3.72E -59	DC8	IT4var30	8.06E -56	Group B/C	PFC112 0c	6.27E -52	Group B/C	IT4var3 3	1.36E -48	Group B/C	IGHvar1 7	1.37E -43	Group B/C
	37	MW01 4438	534	5	2	128.8	EPCR	KX1548 76.1	1.62E -86	EPCR	PFCLIN var69	2.21E -45	Group A- Rosetting/Unknow n	IGHvar2 3	1.03E -43	EPCR	IGHvar1 0	4.79E -42	Group A- Rosetting/Unknow n	KX1549 43.1	2.24E -35	Group A- Rosetting/Unknow n
	38	MW01 4439	528	5	4	410.4	EPCR	KX1549 66.1	9.53E -119	EPCR	KX1548 69.1	5.74E -116	EPCR	KX1549 67.1	1.28E -92	EPCR	KX1549 54.1	5.98E -86	EPCR	DD2var2 2	2.78E -84	Group A- Rosetting/Unknow n
	39	MW01 4440	499	5	2	1047. 4	EPCR	IGHvar3 9	0	EPCR	RAJ116 var19	4.80E -87	Group A- Rosetting/Unknow n	ACJ683 28	3.85E -63	Group A- Rosetting/Unknow n	KX1548 99.1	1.82E -51	Group A- Rosetting/Unknow n	KX1548 74.1	3.93E -48	EPCR
	41	MW01 4441	428	5	5	285.8	Group B/C	HB3var3 3	8.84E -75	Group B/C	DD2var1 8	1.51E -57	Group B/C	RAJ116 var36	3.27E -54	Group B/C	KX1549 22.1	1.18E -53	Group B/C	HB3var4 0	3.29E -49	Group B/C
	42	MW01 4442	410	5	5	198.1	Group B/C	KX1548 60.1	5.18E -47	Group B/C	PFCLIN var66	1.45E -42	Group B/C	DD2var1 6	4.06E -38	Group B/C	PFCLIN var64	5.25E -37	Group B/C	IT4var66	5.25E -37	Group B/C
	43	MW01 4443	391	5	4	359.2	EPCR	IT4var07	5.99E -106	EPCR	PF11_05 21	4.69E -97	EPCR	IT4var08	2.20E -90	Group A- Rosetting/Unknow n	KX1549 45.1	1.02E -88	EPCR	KX1549 03.1	2.26E -70	EPCR
	45	MW01 4444	378	5	5	217.0	Group B/C	PFCLIN var52	1.11E -53	Group B/C	KX1549 07.1	2.41E -45	Group B/C	HB3var0 8	2.41E -45	Group B/C	IT4var0 1	2.43E -40	Group B/C	PFL0020 w	6.80E -36	Group B/C
	46	MW01 4445	361	5	5	147.8	Group B/C	DD2var3 8	4.54E -33	Group B/C	IGHvar3 4	5.87E -32	Group B/C	RAJ116 var39	2.11E -31	Group B/C	DD2var 39	2.11E -31	Group B/C	IT4var67	1.28E -23	Group B/C
	47	MW01 4446	347	5	5	288.9	Group B/C	PFCLIN var39	4.57E -73	Group B/C	KX1549 55.1	7.65E -71	Group B/C	PF13_03 64	1.30E -58	Group B/C	IT4var3 4	1.70E -47	Group B/C	IT4var62	1.72E -42	Group B/C
	48	MW01 4447	347	5	5	269.0	Group B/C	IGHvar3 3	1.19E -68	Group B/C	IGHvar4 0	5.58E -62	Group B/C	KX1549 50.1	1.22E -53	Group B/C	IT4var3 3	9.54E -45	Group B/C	KX1549 06.1	1.23E -43	Group B/C
40	1	MW01 4448	1422 2	5	5	869.1	var1csa	DD2var2 5	2.50E -179	var1csa	AJ42041 1	2.50E -179	var1csa	KX1549 17.1	4.19E -177	var1csa	IGHvar1 1	2.54E -169	var1csa	AAM55 194	1.18E -167	var1csa
	2	MW01 4449	1395 5	5	5	274.5	Group B/C	IGHvar0 8	9.49E -60	Group B/C	PFL1960 w	2.06E -56	Group B/C	DD2var3 4	2.66E -55	Group B/C	PFCLIN var54	3.44E -54	Group B/C	DD2var1 8	1.60E -52	Group B/C
	3	MW01 4450	1298 6	5	3	105.5	Group B/C	IT4var32 b	1.91E -46	DC8	IT4var19	1.91E -46	DC8	RAJ116 var10	6.98E -36	Group B/C	IT4var4 1	6.98E -36	Group B/C	DD2var3 9	6.98E -36	Group B/C
	4	MW01 4451	9076	5	5	164.1	Group B/C	IT4var63	4.07E -43	Group B/C	HB3var4 7	1.48E -32	Group B/C	HB3var0 9	1.48E -32	Group B/C	DD2var 44	6.91E -31	Group B/C	DD2var3 5	1.16E -28	Group B/C
	5	MW01 4452	5526	5	3	131.5	Group B/C	KX1548 66.1	9.31E -50	Group B/C	PFCLIN var39	7.25E -46	Group B/C	KX1549 28.1	1.57E -42	DC8	KX1548 29.1	4.40E -38	Group B/C	IT4var32 b	7.35E -36	DC8
	6	MW01 4453	5022	5	5	217.6	Group B/C	KX1548 19.1	6.32E -61	Group B/C	KX1548 80.1	1.07E -48	Group B/C	PFCLIN var66	6.50E -41	Group B/C	PFCLIN var64	2.35E -35	Group B/C	IT4var66	2.35E -35	Group B/C
	7	MW01 4454	4892	5	3	158.2	DC8	KX1548 25.1	6.88E -71	DC8	KX1549 46.1	1.95E -56	DC8	IT4var39	1.55E -37	Group B/C	DD2var 49	2.60E -35	EPCR	KX1548 70.1	4.35E -33	DC8
	8	MW01 4455	4598	5	5	319.8	Group B/C	RAJ116 var35	2.36E -80	Group B/C	PFCLIN var61	2.36E -80	Group B/C	IT4var40	1.87E -61	Group B/C	RAJ116 var33	1.90E -51	Group B/C	PF07_00 50	8.84E -50	Group B/C
	9	MW01 4456	4170	5	5	320.6	Group B/C	IT4var34	4.50E -73	Group B/C	PFCLIN var39	1.26E -68	Group B/C	PFD063 0c	1.27E -63	Group B/C	KX1548 26.1	5.91E -62	Group B/C	PFD063 5c	5.95E -57	Group B/C
	10	MW01 4457	3791	5	5	185.7	Group B/C	KX1548 48.1	9.33E -55	Group B/C	HB3var2 1	2.06E -36	Group B/C	IGHvar2 1	3.45E -34	Group B/C	IT4var2 9	4.46E -33	Group B/C	IT4var32 a	7.47E -31	Group B/C

	11	MW014458	3507	5	5	327.9	Group B/C	IT4var33	9.31E-85	Group B/C	PFL1955w	2.06E-66	Group B/C	KX154819.1	5.77E-62	Group B/C	IGHvar31	9.65E-60	Group B/C	KX154910.1	1.25E-58	Group B/C
	12	MW014459	3178	5	5	227.6	Group B/C	PFL0005w	6.17E-91	Group B/C	RAJ116var06	1.40E-52	Group B/C	PF08_0103	5.19E-32	Group B/C	HB3var16	3.13E-29	Group B/C	PFC0005w	1.88E-26	Group B/C
	13	MW014460	2689	5	5	210.6	Group B/C	PFCLINvar66	7.51E-56	Group B/C	IGHvar35	3.54E-44	Group B/C	RAJ116var30	2.13E-41	Group B/C	RAJ116var21	1.28E-38	Group B/C	IT4var39	3.60E-34	Group B/C
	14	MW014461	1622	5	5	557.9	EPCR	KX154954.1	4.15E-157	EPCR	KX154967.1	4.39E-117	EPCR	KX154869.1	4.45E-107	EPCR	KX154966.1	5.76E-106	EPCR	IGHvar09	2.80E-74	EPCR
	15	MW014462	1093	5	5	194.3	Group B/C	KX154884.1	2.98E-49	Group B/C	PFL1955w	6.50E-41	Group B/C	DD2var26	3.91E-38	Group B/C	IT4var32a	8.47E-35	Group B/C	IT4var14	8.47E-35	Group B/C
	16	MW014463	1075	5	5	1226.2	Group B/C	IGHvar29	0	Group B/C	IGHvar17	1.16E-68	Group B/C	RAJ116var09	5.44E-62	Group B/C	PFL2665c	1.99E-51	Group B/C	KX154896.1	5.56E-47	Group B/C
	17	MW014464	951	5	5	246.2	Group B/C	IGHvar33	5.58E-62	Group B/C	IGHvar40	4.34E-58	Group B/C	IT4var34	5.70E-47	Group B/C	IT4var23	3.43E-44	Group B/C	KX154921.1	1.24E-38	Group B/C
	18	MW014465	735	5	3	90.4	Group B/C	PFCLINvar30	3.05E-84	DC8	PFCLINvar69	1.97E-31	Group A-Rosetting/Unknown	DD2var38	1.97E-31	Group B/C	DD2var12	7.09E-31	Group B/C	IT4var67	2.55E-30	Group B/C
	19	MW014466	728	5	5	217.0	Group B/C	PFCLINvar52	1.11E-53	Group B/C	KX154907.1	2.41E-45	Group B/C	HB3var08	2.41E-45	Group B/C	IT4var01	2.43E-40	Group B/C	PFL0020w	6.80E-36	Group B/C
	20	MW014467	728	5	3	305.7	EPCR	KX154845.1	2.14E-110	EPCR	IGHvar09	2.15E-105	EPCR	IGHvar32	4.73E-92	EPCR	DD2var22	2.20E-90	Group A-Rosetting/Unknown	IT4var60	1.05E-73	Group A-Rosetting/Unknown
	21	MW014468	703	5	4	182.3	Group B/C	IGHvar20	8.36E-90	Group B/C	IGHvar01	3.18E-49	Group B/C	RAJ116var33	7.08E-26	Group B/C	PFCLINvar31	2.55E-25	DC8	KX154916.1	2.56E-20	Group B/C
	22	MW014469	678	5	3	262.3	EPCR	IT4var02	4.41E-127	Group A-Rosetting/Unknown	KX154871.1	9.76E-109	EPCR	HB3var04	2.19E-80	Group A-Rosetting/Unknown	IT4var18	3.66E-78	EPCR	KX154893.1	1.32E-77	EPCR
	23	MW014470	658	5	5	648.5	EPCR	IGHvar27	2.40E-169	EPCR	KX154935.1	8.62E-169	EPCR	HB3var03	5.34E-146	EPCR	KX154918.1	5.73E-96	EPCR	KX154901.1	4.59E-72	EPCR
	25	MW014471	593	5	5	218.5	Group B/C	HB3var28	1.55E-57	Group B/C	IGHvar40	5.65E-47	Group B/C	RAJ116var30	9.53E-40	Group B/C	PFCLINvar11	3.43E-39	Group B/C	IT4var05	1.23E-38	Group B/C
	26	MW014472	536	5	5	193.3	Group B/C	DD2var45	7.70E-61	Group B/C	HB3var30	1.71E-37	Group B/C	HB3var18	2.87E-35	Group B/C	MAL8P1.220	6.21E-32	Group B/C	PFD0005w	2.23E-31	Group B/C
	27	MW014473	522	5	5	218.8	Group B/C	DD2var18	1.34E-52	Group B/C	RAJ116var36	1.74E-46	Group B/C	AY028643	4.88E-42	Group B/C	IT4var17	6.32E-41	Group B/C	PFD1000c	2.27E-40	Group B/C
	28	MW014474	485	5	3	196.8	Group A-Rosetting/Unknown	KX154844.1	1.30E-72	Group A-Rosetting/Unknown	KX154891.1	2.19E-65	Group A-Rosetting/Unknown	HB3var1csc	2.84E-64	var1csc	KX154842.1	6.14E-61	Group A-Rosetting/Unknown	KX154869.1	1.35E-47	EPCR
	29	MW014475	437	5	5	317.4	Group B/C	PFL1950w	4.08E-103	Group B/C	HB3var23	4.08E-103	Group B/C	IGHvar17	3.43E-44	Group B/C	PFCLINvar43	7.48E-36	Group B/C	DD2var44	9.67E-35	Group B/C
	30	MW014476	433	5	5	204.5	Group B/C	KX154969.1	4.44E-48	Group B/C	PFL2665c	7.44E-46	Group B/C	KX154884.1	1.61E-42	Group B/C	DD2var51	7.54E-36	Group B/C	DD2var24	7.54E-36	Group B/C
	32	MW014477	430	5	5	257.5	Group B/C	IGHvar28	2.32E-90	Group B/C	PFCLINvar04	2.42E-60	Group B/C	IT4var15	2.49E-40	Group B/C	DD2var13	2.49E-40	Group B/C	PFA0005w	9.10E-30	Group B/C
46	1	MW014478	12876	5	2	163.3	Group A-Rosetting/Unknown	KX154943.1	9.49E-94	Group A-Rosetting/Unknown	KX154978.1	5.88E-71	Group A-Rosetting/Unknown	PFCLINvar73	9.83E-69	EPCR	KX154863.1	1.01E-48	Group B/C	PFCLINvar71	4.71E-47	Group B/C
	2	MW014479	9208	5	3	109.3	Group B/C	KX154936.1	1.51E-47	EPCR	KX154928.1	2.52E-45	DC8	KX154821.1	1.96E-41	Group B/C	HB3var21	7.11E-36	Group B/C	IGHvar37	3.31E-34	Group B/C
	3	MW014480	8808	5	5	553.4	EPCR	KX154890.1	4.44E-122	EPCR	KX154923.1	9.62E-119	EPCR	KX154937.1	9.62E-119	EPCR	KX154857.1	4.54E-107	EPCR	KX154909.1	2.16E-90	EPCR
	4	MW014481	7089	5	5	472.3	DC8	KX154975.1	5.51E-116	DC8	KX154941.1	5.59E-106	DC8	KX154856.1	2.64E-94	DC8	KX154925.1	4.42E-92	DC8	KX154846.1	1.27E-67	DC8
	5	MW014482	6956	5	5	270.4	Group B/C	HB3var34	1.37E-77	Group B/C	RAJ116var37	4.99E-67	Group B/C	IGHvar02	6.50E-61	Group B/C	KX154841.1	1.12E-38	Group B/C	IT4var40	8.77E-30	Group B/C
	6	MW014483	5180	5	3	142.2	Group B/C	KX154825.1	1.11E-68	DC8	KX154946.1	5.16E-67	DC8	DD2var18	1.88E-56	Group B/C	PFCLINvar66	2.47E-45	Group B/C	PFL0935c	1.49E-42	Group B/C
	7	MW014484	4234	5	5	197.9	Group B/C	HB3var07	5.51E-47	Group B/C	KX154821.1	2.56E-45	Group B/C	KX154819.1	9.29E-40	Group B/C	KX154815.1	9.35E-35	Group B/C	HB3var16	9.35E-35	Group B/C
	8	MW014485	3998	5	5	338.7	Group B/C	HB3var08	1.38E-97	Group B/C	KX154907.1	6.60E-76	Group B/C	IT4var32a	1.13E-58	Group B/C	IT4var14	1.13E-58	Group B/C	RAJ116var39	1.90E-51	Group B/C
	9	MW014486	3992	5	4	142.8	Group B/C	AAB60251	7.30E-41	Group B/C	PFCLINvar30	1.58E-37	DC8	KX154969.1	2.04E-36	Group B/C	KX154853.1	3.42E-34	Group B/C	RAJ116var24	3.42E-34	Group B/C
	10	MW014487	3807	5	5	451.5	Group B/C	DD2var36	1.01E-123	Group B/C	MAL6P1.252	6.08E-121	Group B/C	PFCLINvar60	6.21E-106	Group B/C	HB3var18	3.08E-59	Group B/C	DD2var38	2.43E-45	Group B/C
	11	MW014488	3699	5	4	231.3	Group B/C	PFL0005w	7.79E-120	Group B/C	IT4var67	2.43E-40	Group B/C	RAJ116var06	8.73E-40	Group B/C	HB3var16	3.16E-34	Group B/C	KX154964.1	1.47E-32	DC8
	12	MW014489	3246	5	4	211.2	Group B/C	RAJ116var24	2.32E-90	Group B/C	RAJ116var29	1.46E-57	Group B/C	HB3var11	4.17E-38	Group B/C	PFCLINvar30	1.17E-33	DC8	KX154868.1	4.23E-28	Group B/C

	13	MW01 4490	3053	5	3	105.5	Group B/C	IT4var32 b	1.91E -46	DC8	IT4var19	1.91E -46	DC8	RAJ116 var10	6.98E -36	Group B/C	IT4var4 1	6.98E -36	Group B/C	DD2var3 9	6.98E -36	Group B/C
	14	MW01 4491	2608	5	5	227.0	Group B/C	PF07_01 39	2.35E -50	Group B/C	PF08_01 07	3.93E -48	Group B/C	PF07_00 48	6.58E -46	Group B/C	MAL7P 1.212	1.10E -43	Group B/C	PF08_01 06	1.42E -42	Group B/C
	15	MW01 4492	2392	5	5	540.1	EPCR	KX1549 49.1	1.25E -112	EPCR	AAQ739 28	1.25E -112	EPCR	KX1548 75.1	4.51E -112	EPCR	KX1548 79.1	4.51E -112	EPCR	KX1549 18.1	2.77E -94	EPCR
	16	MW01 4493	1812	5	4	299.1	EPCR	IT4var60	6.03E -101	Group A- Rosetting/Unknow n	KX1548 74.1	1.69E -96	EPCR	PFCLIN var62	1.31E -92	EPCR	DD2var 40	1.79E -56	EPCR	DD2var0 9a	1.79E -56	EPCR
	17	MW01 4494	1696	5	5	167.8	Group B/C	IGHvar0 1	1.27E -48	Group B/C	PFCLIN var66	4.62E -38	Group B/C	IGHvar3 5	1.01E -29	Group B/C	PFCLIN var54	1.68E -27	Group B/C	DD2var1 1	1.68E -27	Group B/C
	18	MW01 4495	1547	5	4	535.5	EPCR	KX1549 66.1	8.77E -164	EPCR	KX1548 69.1	5.28E -161	EPCR	KX1549 67.1	5.62E -116	EPCR	KX1549 54.1	1.24E -97	EPCR	DD2var2 2	5.95E -76	Group A- Rosetting/Unknow n
	19	MW01 4496	1507	5	5	211.9	Group B/C	KX1549 12.1	3.21E -49	Group B/C	IGHvar2 5	1.93E -46	Group B/C	PFCLIN var29	1.16E -43	Group B/C	KX1549 21.1	1.50E -42	Group B/C	PFC000 5w	1.18E -33	Group B/C
	20	MW01 4497	1324	5	5	869.1	var1csa	DD2var2 5	2.50E -179	var1csa	AJ42041 1	2.50E -179	var1csa	KX1549 17.1	4.19E -177	var1csa	IGHvar1 1	2.54E -169	var1csa	AAM55 194	1.18E -167	var1csa
59	1	MW01 4498	2162 5	5	5	302.8	Group B/C	KX1549 40.1	2.74E -74	Group B/C	IT4var26	1.28E -67	Group B/C	HB3var1 4	7.79E -60	Group B/C	HB3var 40	2.82E -54	Group B/C	DD2var4 4	2.20E -50	Group B/C
	2	MW01 4499	1726 6	5	5	306.8	Group B/C	PFCLIN var56	4.39E -73	Group B/C	PFD062 5c	7.41E -66	Group B/C	IGHvar1 3	2.66E -65	Group B/C	PFD101 5c	9.72E -55	Group B/C	HB3var5 0	2.10E -51	Group B/C
	3	MW01 4500	1022 1	5	4	211.4	Group B/C	KX1549 72.1	2.15E -65	Group B/C	IT4var11	2.16E -60	Group B/C	IT4var13	2.86E -44	Group B/C	DD2var 21	2.86E -44	Group B/C	KX1549 47.1	4.85E -32	DC8
	4	MW01 4501	8349	5	5	215.7	Group B/C	KX1548 52.1	9.25E -55	Group B/C	IT4var54	7.25E -46	Group B/C	KX1549 12.1	7.30E -41	Group B/C	KX1548 28.1	9.45E -40	Group B/C	TM284S 2var1	4.40E -38	Group B/C
	5	MW01 4502	8056	5	3	158.4	EPCR	KX1548 72.1	2.88E -59	EPCR	IGHvar2 4	1.04E -58	Group A- Rosetting/Unknow n	RAJ116 var17	1.34E -57	Group A- Rosetting/Unknow n	KX1548 18.1	1.35E -52	EPCR	HB3var0 2	1.05E -48	EPCR
	6	MW01 4503	7892	5	5	506.7	EPCR	KX1549 49.1	5.87E -106	EPCR	KX1548 75.1	2.11E -105	EPCR	KX1548 79.1	2.11E -105	EPCR	AAQ73 928	1.27E -102	EPCR	KX1548 18.1	6.00E -91	EPCR
	7	MW01 4504	6682	5	3	258.4	EPCR	KX1549 26.1	2.74E -109	EPCR	IGHvar2 4	2.21E -80	Group A- Rosetting/Unknow n	KX1548 90.1	1.33E -77	EPCR	KX1548 74.1	1.04E -73	EPCR	PF13_00 03	4.82E -72	Group A- Rosetting/Unknow n
	8	MW01 4505	6374	5	3	104.9	EPCR	PFD123 5w	3.20E -44	EPCR	MAL7P 1.1	3.20E -44	Group B/C	KX1548 88.1	1.95E -31	EPCR	KX1549 03.1	1.95E -31	EPCR	ACJ683 28	4.26E -23	Group A- Rosetting/Unknow n
	9	MW01 4506	6121	5	3	202.3	var1csa	DD2var3 2	4.47E -97	EPCR	HB3var0 2	9.89E -79	EPCR	KX1548 20.1	3.61E -68	var1csa	KX1548 58.1	3.61E -68	var1csa	KX1549 32.1	3.61E -68	var1csa
	10	MW01 4507	5083	5	5	249.6	Group B/C	KX1548 21.1	1.20E -53	Group B/C	KX1549 12.1	1.55E -52	Group B/C	AY0286 43	7.20E -51	Group B/C	IT4var6 1	1.20E -48	Group B/C	DD2var3 1	1.56E -47	Group B/C
	11	MW01 4508	4522	5	3	179.5	Group A- Rosetting/Unknow n	PF13_00 03	1.34E -77	Group A- Rosetting/Unknow n	KX1549 26.1	4.93E -62	EPCR	DD2var4 2	2.31E -55	EPCR	KX1548 99.1	1.39E -52	Group A- Rosetting/Unknow n	IT4var02	1.80E -51	Group A- Rosetting/Unknow n
	12	MW01 4509	3551	5	4	217.3	Group B/C	KX1548 82.1	2.39E -70	Group B/C	PFA000 5w	6.79E -56	Group B/C	HB3var2 4	2.46E -50	Group B/C	KX1548 25.1	1.15E -43	DC8	DD2var1 6	1.15E -43	Group B/C
	13	MW01 4510	3205	5	5	327.7	Group B/C	RAJ116 var14	6.23E -71	Group B/C	PF10_04 06	4.85E -67	Group B/C	KX1548 62.1	1.74E -66	Group B/C	IGHvar3 8	8.12E -65	Group B/C	IGHvar2 5	4.89E -62	Group B/C
	14	MW01 4511	3177	5	5	242.4	Group B/C	KX1549 71.1	9.17E -55	Group B/C	RAJ116 var36	1.53E -52	Group B/C	DD2var2 4	1.19E -48	Group B/C	MAL7P 1.56	2.59E -45	Group B/C	IT4var05	9.30E -45	Group B/C
	15	MW01 4512	2378	5	3	183.9	EPCR	PFCLIN var62	2.95E -69	EPCR	KX1549 59.1	2.30E -65	EPCR	IGHvar1 2	2.33E -55	Group A- Rosetting/Unknow n	HB3var 05	2.33E -55	Group A- Rosetting/Unknow n	KX1549 36.1	1.82E -51	EPCR
	16	MW01 4513	2178	5	5	250.5	Group B/C	IT4var23	1.28E -63	Group B/C	PFCLIN var66	2.17E -51	Group B/C	KX1549 71.1	1.01E -49	Group B/C	PFCLIN var65	1.02E -44	Group B/C	IT4var59	1.02E -44	Group B/C
	17	MW01 4514	1915	5	3	119.9	Group B/C	KX1549 58.1	4.05E -53	EPCR	IGHvar1 7	3.17E -44	Group B/C	DD2var3 5	8.89E -40	Group B/C	HB3var 29	4.14E -38	Group B/C	KX1548 25.1	5.35E -37	DC8
	18	MW01 4515	1827	5	5	286.9	Group B/C	DD2var2 3	8.75E -70	Group B/C	KX1549 12.1	1.47E -62	Group B/C	PF10_04 06	1.91E -61	Group B/C	RAJ116 var06	5.38E -52	Group B/C	KX1548 15.1	9.06E -45	Group B/C
	19	MW01 4516	1744	5	4	239.8	Group B/C	KX1549 72.1	3.54E -68	Group B/C	PFCLIN var09	3.54E -68	Group B/C	PFCLIN var71	5.92E -66	Group B/C	KX1548 56.1	6.13E -41	DC8	PFD101 5c	2.20E -40	Group B/C
	20	MW01 4517	1673	5	5	279.6	Group B/C	KX1549 63.1	5.50E -72	Group B/C	AAB602 51	4.28E -68	Group B/C	DD2var5 0	7.27E -56	Group B/C	IGHvar2 9	1.23E -43	Group B/C	IGHvar1 7	1.23E -43	Group B/C
	21	MW01 4518	1646	5	5	177.1	Group B/C	PF07_00 48	4.94E -47	Group B/C	PF08_01 06	5.01E -37	Group B/C	PF08_01 07	1.09E -33	Group B/C	PFCLIN var43	5.05E -32	Group B/C	PFCLIN var23	6.53E -31	Group B/C
	22	MW01 4519	1578	5	4	171.6	Group B/C	PFCLIN var66	1.20E -63	Group B/C	HB3var3 0	7.37E -46	Group B/C	KX1548 26.1	1.62E -32	Group B/C	PFD124 5c	1.62E -32	Group B/C	PFCLIN var30	1.62E -32	DC8
	23	MW01 4520	1433	5	5	805.2	var1csa	KX1549 74.1	1.94E -180	var1csa	AAM55 194	1.20E -157	var1csa	TM284v ar3	1.20E -157	var1csa	KX1549 17.1	4.31E -157	var1csa	IGHvar1 1	5.58E -156	var1csa

	24	MW014521	1432	5	5	207.0	Group B/C	KX154868.1	3.95E-58	Group B/C	KX154956.1	1.11E-48	Group B/C	PF11830c	1.13E-38	Group B/C	DD2var18	4.09E-33	Group B/C	KX154832.1	5.29E-32	Group B/C
	25	MW014522	922	5	5	246.3	Group B/C	AY028643	1.49E-62	Group B/C	IT4var39	4.19E-53	Group B/C	IGHvar40	1.97E-46	Group B/C	PFL2665c	2.54E-45	Group B/C	PFA0005w	1.53E-42	Group B/C
	26	MW014523	888	5	3	261.2	EPCR	KX154927.1	9.99E-99	EPCR	DD2var49	2.18E-90	EPCR	HB3var1csa	6.19E-76	var1csa	DD2var43	2.88E-74	EPCR	AAM55194	1.38E-52	var1csa
	27	MW014524	833	5	3	249.0	EPCR	KX154926.1	2.12E-115	EPCR	PF13_0003	2.91E-74	Group A-Rosetting/Unknown	KX154890.1	1.05E-68	EPCR	KX154959.1	4.90E-67	EPCR	KX154899.1	2.95E-64	Group A-Rosetting/Unknown
74	1	MW014525	48746	5	3	182.2	Group B/C	PFCLINvar06	2.31E-95	Group B/C	DD2var07	8.90E-45	Group B/C	DD2var41	3.20E-44	Group B/C	IT4var03	8.97E-40	Type 3 var	KX154825.1	1.52E-27	DC8
	2	MW014526	10493	5	5	204.7	Group B/C	PFCLINvar45	2.42E-55	Group B/C	HB3var11	4.11E-43	Group B/C	HB3var19	1.91E-41	Group B/C	KX154848.1	5.35E-37	Group B/C	PFB1055c	1.94E-31	Group B/C
	3	MW014527	8059	5	5	363.9	EPCR	KX154918.1	2.70E-99	EPCR	KX154875.1	4.71E-67	EPCR	KX154879.1	4.71E-67	EPCR	KX154949.1	4.71E-67	EPCR	AAQ73928	4.71E-67	EPCR
	4	MW014528	7514	5	5	245.5	Group B/C	PFCLINvar71	2.16E-55	Group B/C	KX154894.1	1.30E-52	Group B/C	PFD1015c	2.17E-50	Group B/C	RAJ116var22	7.82E-50	Group B/C	KX154864.1	6.13E-41	Group B/C
	5	MW014529	5418	5	2	122.1	Group A-Rosetting/Unknown	IGHvar23	1.05E-73	Group A-Rosetting/Unknown	IGHvar24	8.45E-50	Group A-Rosetting/Unknown	KX154926.1	5.12E-42	EPCR	IT4var22	5.12E-42	EPCR	DQ408104	5.12E-42	Type 3 var
	6	MW014530	4645	5	4	335.8	EPCR	PFCLINvar62	9.95E-109	EPCR	IT4var60	1.70E-91	Group A-Rosetting/Unknown	KX154924.1	1.33E-82	EPCR	KX154874.1	1.74E-76	EPCR	KX154830.1	6.29E-71	EPCR
	7	MW014531	3129	5	5	236.7	Group B/C	DD2var39	7.29E-66	Group B/C	RAJ116var39	9.43E-65	Group B/C	IGHvar16	2.10E-41	Group B/C	PFD1000c	3.54E-34	Group B/C	PFD0995c	3.54E-34	Group B/C
	8	MW014532	3093	5	5	423.9	EPCR	KX154936.1	2.77E-94	EPCR	KX154871.1	7.76E-90	EPCR	KX154966.1	1.01E-83	EPCR	KX154869.1	1.69E-81	EPCR	KX154967.1	3.66E-78	EPCR
	9	MW014533	2843	5	3	164.4	Group B/C	HB3var22	1.82E-81	Group B/C	IGHvar29	4.11E-48	Group B/C	KX154930.1	1.93E-41	EPCR	KX154892.1	1.16E-38	DC8	KX154971.1	5.40E-37	Group B/C
	10	MW014534	2818	5	5	203.1	Group B/C	KX154894.1	8.19E-65	Group B/C	IT4var41	1.39E-52	Group B/C	RAJ116var39	6.66E-31	Group B/C	KX154905.1	2.39E-30	Group B/C	HB3var16	4.01E-28	Group B/C
	11	MW014535	1769	5	5	295.2	Group B/C	KX154910.1	2.52E-75	Group B/C	KX154955.1	1.18E-68	Group B/C	IGHvar18	3.33E-59	Group B/C	PFL1955w	7.26E-51	Group B/C	HB3var24	9.46E-45	Group B/C
	12	MW014536	1691	5	5	277.0	Group B/C	IT4var15	8.48E-60	Group B/C	DD2var13	8.48E-60	Group B/C	PFD1005c	3.05E-59	Group B/C	MAL6P1.1	6.65E-51	Group B/C	HB3var26	6.65E-51	Group B/C
	13	MW014537	1249	5	5	849.2	var1csa	RAJ116var02	5.15E-171	var1csa	PFCLINvar76	5.15E-171	var1csa	AF547159	5.15E-171	var1csa	KX154858.1	1.85E-170	var1csa	KX154820.1	2.40E-169	var1csa
	14	MW014538	1091	5	2	1088.0	Group A-Rosetting/Unknown	DD2var22	0	Group A-Rosetting/Unknown	IT4var60	1.02E-88	Group A-Rosetting/Unknown	KX154871.1	4.76E-87	EPCR	KX154936.1	6.20E-81	EPCR	KX154966.1	2.89E-79	EPCR
	15	MW014539	911	5	5	163.0	Group B/C	KX154921.1	4.18E-43	Group B/C	HB3var07	2.53E-35	Group B/C	PFL0935c	9.18E-30	Group B/C	PFC0005w	3.30E-29	Group B/C	DD2var33	3.30E-29	Group B/C
	16	MW014540	882	5	5	265.5	Group B/C	KX154894.1	1.25E-82	Group B/C	PFCLINvar71	1.30E-52	Group B/C	PFD1015c	2.17E-50	Group B/C	IT4var41	3.66E-43	Group B/C	KX154972.1	2.20E-40	Group B/C
	17	MW014541	735	5	5	254.8	Group B/C	PFCLINvar44	3.96E-63	Group B/C	DD2var46	3.96E-63	Group B/C	KX154854.1	6.71E-51	Group B/C	KX154839.1	6.81E-41	Group B/C	PFCLINvar23	2.45E-40	Group B/C
78	1	MW014542	35435	5	4	380.9	EPCR	KX154967.1	2.04E-115	EPCR	KX154954.1	4.42E-112	EPCR	RAJ116var05	1.27E-87	Group A-Rosetting/Unknown	KX154966.1	5.97E-81	EPCR	KX154869.1	2.16E-75	EPCR
	2	MW014543	11548	5	5	239.0	Group B/C	PFCLINvar08	3.29E-79	Group B/C	IT4var36	2.66E-50	Group B/C	KX154905.1	9.69E-40	Group B/C	HB3var26	1.62E-37	Group B/C	KX154866.1	7.54E-36	Group B/C
	3	MW014544	8735	5	3	258.4	EPCR	KX154926.1	2.74E-109	EPCR	IGHvar24	2.21E-80	Group A-Rosetting/Unknown	KX154890.1	1.33E-77	EPCR	KX154874.1	1.04E-73	EPCR	PF13_0003	4.82E-72	Group A-Rosetting/Unknown
	4	MW014545	8680	5	3	188.4	Group A-Rosetting/Unknown	KX154843.1	2.87E-69	Group A-Rosetting/Unknown	IT4var09	1.35E-62	Group A-Rosetting/Unknown	IGHvar39	1.35E-62	EPCR	KX154845.1	4.84E-62	EPCR	RAJ116var19	1.05E-58	Group A-Rosetting/Unknown
	5	MW014546	5340	5	5	424.5	DC8	KX154878.1	4.38E-97	DC8	KX154914.1	4.38E-97	DC8	KX154961.1	4.38E-97	DC8	KX154856.1	2.70E-79	DC8	KX154975.1	1.29E-57	DC8
	6	MW014547	3596	5	5	306.5	Group B/C	KX154862.1	2.99E-79	Group B/C	KX154851.1	1.09E-68	Group B/C	RAJ116var06	8.56E-60	Group B/C	IGHvar25	6.67E-56	Group B/C	MAL7P1.55	1.88E-46	Group B/C
	7	MW014548	3418	5	4	350.3	EPCR	KX154926.1	5.74E-116	EPCR	PF13_0003	4.66E-82	Group A-Rosetting/Unknown	KX154954.1	7.80E-80	EPCR	KX154890.1	2.80E-79	EPCR	KX154967.1	3.63E-78	EPCR
	8	MW014549	3233	5	5	249.7	Group B/C	KX154852.1	8.53E-75	Group B/C	TM284S2var1	6.79E-56	Group B/C	IT4var61	1.15E-43	Group B/C	RAJ116var24	2.49E-40	Group B/C	IGHvar21	1.16E-38	Group B/C
	9	MW014550	2624	5	5	304.0	Group B/C	IT4var54	1.55E-82	Group B/C	RAJ116var21	5.64E-72	Group B/C	IGHvar36	2.06E-61	Group B/C	IGHvar08	7.50E-51	Group B/C	MAL7P1.50	7.61E-41	Group B/C
	10	MW014551	2601	5	5	274.7	Group B/C	MAL7P1.56	1.88E-66	Group B/C	PFCLINvar28	1.59E-59	Group B/C	PFC1120c	1.15E-53	Group B/C	KX154900.1	8.92E-50	Group B/C	IT4var61	3.21E-49	Group B/C

	11	MW014552	2537	5	3	202.3	var1csa	DD2var32	4.47E-97	EPCR	HB3var02	9.89E-79	EPCR	KX154820.1	3.61E-68	var1csa	KX154858.1	3.61E-68	var1csa	KX154932.1	3.61E-68	var1csa
	12	MW014553	2171	5	4	285.8	EPCR	KX154843.1	2.81E-84	Group A-Rosetting/Unknown	KX154966.1	2.83E-79	EPCR	KX154869.1	4.77E-72	EPCR	KX154954.1	1.03E-68	EPCR	KX154967.1	1.03E-68	EPCR
	13	MW014554	2142	5	5	281.2	Group B/C	PF11830c	5.59E-72	Group B/C	PFCLINvar66	7.24E-71	Group B/C	KX154819.1	7.44E-51	Group B/C	KX154950.1	1.25E-48	Group B/C	IT4var61	1.62E-42	Group B/C
	14	MW014555	1762	5	3	209.5	EPCR	RAJ116var05	2.17E-85	Group A-Rosetting/Unknown	KX154966.1	2.85E-74	EPCR	RAJ116var17	1.03E-73	Group A-Rosetting/Unknown	KX154869.1	1.03E-68	EPCR	KX154967.1	1.03E-68	EPCR
	15	MW014556	1757	5	5	1499.1	var1csa	AAM55194	0	var1csa	TM284var3	0	var1csa	IGHvar11	2.54E-169	var1csa	DD2var25	5.50E-166	var1csa	AJ420411	5.50E-166	var1csa
	16	MW014557	1673	5	3	205.6	Group A-Rosetting/Unknown	KX154915.1	2.21E-80	Group A-Rosetting/Unknown	IGHvar22	2.23E-75	Group A-Rosetting/Unknown	DD2var40	2.96E-54	EPCR	DD2var09a	2.96E-54	EPCR	KX154842.1	4.95E-52	Group A-Rosetting/Unknown
	17	MW014558	1647	5	2	173.2	EPCR	KX154876.1	5.63E-136	EPCR	PFCLINvar69	2.28E-50	Group A-Rosetting/Unknown	IGHvar23	1.08E-38	EPCR	IGHvar06	1.41E-27	Group B/C	RAJ116var19	5.08E-27	Group A-Rosetting/Unknown
	18	MW014559	1448	5	5	197.6	Group B/C	HB3var12	6.24E-56	Group B/C	HB3var40	1.76E-46	Group B/C	HB3var14	6.33E-46	Group B/C	PF08_0103	3.87E-33	Group B/C	PFCLINvar06	8.49E-20	Group B/C
	19	MW014560	1228	5	5	388.3	EPCR	KX154954.1	9.78E-94	EPCR	KX154967.1	4.55E-92	EPCR	IGHvar09	6.01E-76	EPCR	IGHvar32	1.30E-72	EPCR	KX154966.1	1.33E-57	EPCR
	20	MW014561	1188	5	5	245.7	Group B/C	PFCLINvar66	1.50E-67	Group B/C	KX154831.1	1.53E-52	Group B/C	PFCLINvar64	5.56E-47	Group B/C	IT4var66	5.56E-47	Group B/C	IT4var45	2.62E-35	Group B/C
	21	MW014562	1116	5	3	129.5	Group B/C	KX154864.1	1.01E-48	Group B/C	MAL6P1.316	1.01E-48	DC8	KX154942.1	3.64E-48	DC8	IGHvar05	2.83E-44	Group B/C	PFCLINvar09	1.03E-38	Group B/C
	22	MW014563	955	5	3	363.6	DC8	KX154873.1	1.85E-170	DC8	KX154947.1	7.25E-110	DC8	KX154941.1	2.09E-85	DC8	HB3var03	2.74E-74	EPCR	IGHvar27	5.93E-71	EPCR
	23	MW014564	860	5	5	185.3	Group B/C	KX154907.1	1.44E-42	Group B/C	PFL0020w	6.69E-41	Group B/C	HB3var08	5.21E-37	Group B/C	KX154831.1	2.42E-35	Group B/C	PFCLINvar52	4.05E-33	Group B/C
	24	MW014565	737	5	3	267.3	EPCR	KX154926.1	5.89E-111	EPCR	KX154843.1	4.68E-92	Group A-Rosetting/Unknown	KX154890.1	6.14E-81	EPCR	RAJ116var19	6.14E-81	Group A-Rosetting/Unknown	KX154923.1	1.33E-77	EPCR
	25	MW014566	698	5	5	287.8	Group B/C	IT4var62	1.58E-77	Group B/C	IGHvar13	3.50E-59	Group B/C	RAJ116var28	5.85E-57	Group B/C	KX154849.1	7.57E-56	Group B/C	HB3var21	5.98E-42	Group B/C
	26	MW014567	665	5	5	234.7	Group B/C	IT4var26	1.47E-62	Group B/C	KX154929.1	6.96E-51	Group B/C	PF10005w	2.50E-50	Group B/C	MAL8P1.220	9.13E-40	Group B/C	PFCLINvar26	9.19E-35	Group B/C
80	1	MW014568	23971	5	4	310.3	DC8	KX154941.1	1.23E-107	DC8	KX154975.1	2.75E-79	DC8	KX154953.1	2.16E-70	DC8	RAJ116var32	6.08E-61	Group B/C	KX154939.1	6.12E-56	DC8
	2	MW014569	15915	5	3	105.5	Group B/C	IT4var32b	1.91E-46	DC8	IT4var19	1.91E-46	DC8	RAJ116var10	6.98E-36	Group B/C	IT4var41	6.98E-36	Group B/C	DD2var39	6.98E-36	Group B/C
	3	MW014570	13159	5	5	241.4	Group B/C	DD2var18	8.70E-55	Group B/C	PFCLINvar64	6.77E-51	Group B/C	IT4var66	6.77E-51	Group B/C	PFCLINvar66	1.13E-48	Group B/C	IT4var44	8.89E-40	Group B/C
	4	MW014571	12689	5	5	416.2	DC8	KX154878.1	2.04E-95	DC8	KX154914.1	2.04E-95	DC8	KX154961.1	2.04E-95	DC8	KX154856.1	1.25E-77	DC8	KX154975.1	6.00E-56	DC8
	6	MW014572	7534	5	5	869.1	var1csa	DD2var25	2.50E-179	var1csa	AJ420411	2.50E-179	var1csa	KX154917.1	4.19E-177	var1csa	IGHvar11	2.54E-169	var1csa	AAM55194	1.18E-167	var1csa
	7	MW014573	6682	5	5	388.3	EPCR	KX154954.1	9.78E-94	EPCR	KX154967.1	4.55E-92	EPCR	IGHvar09	6.01E-76	EPCR	IGHvar32	1.30E-72	EPCR	KX154966.1	1.33E-57	EPCR
	8	MW014574	5263	5	5	229.8	Group B/C	RAJ116var29	4.86E-92	Group B/C	KX154821.1	2.44E-35	Group B/C	PFCLINvar65	2.44E-35	Group B/C	IT4var59	2.44E-35	Group B/C	HB3var27	2.44E-35	Group B/C
	9	MW014575	4914	5	5	239.2	Group B/C	KX154908.1	5.10E-52	Group B/C	KX154969.1	1.10E-48	Group B/C	DD2var18	1.10E-48	Group B/C	RAJ116var09	5.13E-47	Group B/C	DD2var24	1.85E-46	Group B/C
	10	MW014576	4227	5	5	330.5	Group B/C	RAJ116var14	1.73E-71	Group B/C	PF10_0406	1.35E-67	Group B/C	KX154862.1	4.85E-67	Group B/C	IGHvar38	2.26E-65	Group B/C	IGHvar25	1.36E-57	Group B/C
	11	MW014577	3371	5	4	484.3	EPCR	KX154954.1	1.93E-155	EPCR	KX154967.1	2.04E-115	EPCR	KX154869.1	9.57E-109	EPCR	KX154966.1	1.24E-107	EPCR	DD2var22	2.80E-74	Group A-Rosetting/Unknown
	12	MW014578	3285	5	3	262.3	EPCR	IT4var02	4.41E-127	Group A-Rosetting/Unknown	KX154871.1	9.76E-109	EPCR	HB3var04	2.19E-80	Group A-Rosetting/Unknown	IT4var18	3.66E-78	EPCR	KX154893.1	1.32E-77	EPCR
93	1	MW014579	18647	5	5	220.1	Group B/C	IT4var10	2.02E-51	Group B/C	AAC05220	2.02E-51	Group B/C	HB3var24	2.61E-50	Group B/C	IT4var51	3.43E-39	Group B/C	DD2var18	2.08E-31	Group B/C
	2	MW014580	15461	5	5	282.3	Group B/C	IGHvar18	2.65E-70	Group B/C	PFL1955w	3.45E-64	Group B/C	IT4var34	5.81E-57	Group B/C	IT4var33	5.81E-57	Group B/C	KX154884.1	1.66E-37	Group B/C
	3	MW014581	14726	5	3	227.4	DC8	KX154939.1	1.22E-97	DC8	KX154885.1	1.26E-72	DC8	IT4var11	1.26E-72	Group B/C	KX154947.1	2.77E-59	DC8	PFCLINvar74	1.00E-53	Group B/C
	4	MW014582	10245	5	5	274.5	Group B/C	IGHvar08	9.49E-60	Group B/C	PFL1960w	2.06E-56	Group B/C	DD2var34	2.66E-55	Group B/C	PFCLINvar54	3.44E-54	Group B/C	DD2var18	1.60E-52	Group B/C

	5	MW014583	10076	5	5	241.4	Group B/C	IT4var05	4.09E-58	Group B/C	DD2var24	1.47E-57	Group B/C	IGHvar40	1.93E-46	Group B/C	IGHvar17	1.50E-42	Group B/C	IT4var51	2.52E-40	Group B/C
	6	MW014584	9658	5	5	226.4	Group B/C	PFCLINvar15	3.94E-78	Group B/C	DD2var26	4.08E-53	Group B/C	DD2var19	8.97E-40	Group B/C	HB3var28	9.10E-30	Group B/C	MAL6P1.4	3.27E-29	Group B/C
	7	MW014585	7197	5	3	158.2	DC8	KX154825.1	6.88E-71	DC8	KX154946.1	1.95E-56	DC8	IT4var39	1.55E-37	Group B/C	DD2var49	2.60E-35	EPCR	KX154870.1	4.35E-33	DC8
	8	MW014586	5034	5	4	329.2	EPCR	PFCLINvar49	2.69E-114	EPCR	IGHvar32	1.02E-78	EPCR	IGHvar02	4.74E-77	EPCR	KX154845.1	4.84E-62	EPCR	AAM55194	4.87E-57	var1csa
	10	MW014587	3766	5	5	261.8	Group B/C	RAJ116var34	5.67E-57	Group B/C	RAJ116var14	1.23E-53	Group B/C	IT4var62	4.41E-53	Group B/C	IGHvar38	1.59E-52	Group B/C	RAJ116var30	3.43E-49	Group B/C
	11	MW014588	3759	5	5	553.4	EPCR	KX154890.1	4.44E-122	EPCR	KX154923.1	9.62E-119	EPCR	KX154937.1	9.62E-119	EPCR	KX154857.1	4.54E-107	EPCR	KX154909.1	2.16E-90	EPCR
	12	MW014589	3409	5	2	1070.7	DC8	PFCLINvar31	0	DC8	RAJ116var11	1.85E-71	DC8	PF08_0140	5.17E-67	EPCR	KX154906.1	1.50E-37	Group B/C	AAB60251	1.50E-37	Group B/C
95	1	MW014590	13022	5	3	194.0	EPCR	HB3var02	1.27E-77	EPCR	DD2var04	3.57E-68	Group A-Rosetting/Unknown	KX154818.1	1.28E-67	EPCR	KX154888.1	6.10E-51	EPCR	PF08_0141	4.75E-47	Group A-Rosetting/Unknown
	2	MW014591	8402	5	4	156.2	Group B/C	PFD0615c	6.94E-46	Group B/C	PFD0625c	1.94E-41	Group B/C	KX154960.1	2.52E-40	EPCR	KX154920.1	1.96E-36	Group B/C	HB3var30	2.53E-35	Group B/C
	3	MW014592	7148	5	3	143.3	Group B/C	KX154825.1	1.11E-68	DC8	KX154946.1	4.00E-68	DC8	DD2var18	5.25E-57	Group B/C	PFCLINvar66	6.88E-46	Group B/C	PFL0935c	1.49E-42	Group B/C
	4	MW014593	6324	5	5	327.9	Group B/C	IT4var33	9.31E-85	Group B/C	PFL1955w	2.06E-66	Group B/C	KX154819.1	5.77E-62	Group B/C	IGHvar31	9.65E-60	Group B/C	KX154910.1	1.25E-58	Group B/C
	5	MW014594	5981	5	3	157.1	Group B/C	HB3var21	1.97E-76	Group B/C	RAJ116var22	4.44E-43	Group B/C	RAJ116var13	9.61E-40	Group B/C	IT4var20	2.08E-36	DC8	DD2var47	2.08E-36	DC8
	6	MW014595	5541	5	3	205.6	Group A-Rosetting/Unknown	KX154915.1	2.21E-80	Group A-Rosetting/Unknown	IGHvar22	2.23E-75	Group A-Rosetting/Unknown	DD2var40	2.96E-54	EPCR	DD2var09a	2.96E-54	EPCR	KX154842.1	4.95E-52	Group A-Rosetting/Unknown
	7	MW014596	5283	5	5	535.1	EPCR	KX154949.1	1.25E-112	EPCR	KX154875.1	4.51E-112	EPCR	KX154879.1	4.51E-112	EPCR	AAQ73928	2.71E-109	EPCR	KX154818.1	1.29E-92	EPCR
	8	MW014597	5246	5	5	440.5	EPCR	DD2var40	1.29E-97	EPCR	DD2var09a	1.29E-97	EPCR	PFCLINvar68	6.01E-96	EPCR	KX154886.1	1.03E-78	EPCR	KX154909.1	2.88E-74	EPCR
	9	MW014598	4584	5	5	145.7	Group B/C	IT4var32a	9.11E-35	Group B/C	IT4var14	9.11E-35	Group B/C	RAJ116var29	1.54E-27	Group B/C	HB3var48	5.52E-27	Group B/C	RAJ116var31	2.57E-25	Group B/C
	10	MW014599	3964	5	5	249.1	Group B/C	KX154905.1	4.05E-78	Group B/C	DD2var26	2.47E-65	Group B/C	DD2var30	4.28E-38	Group B/C	KX154860.1	1.99E-36	Group B/C	IT4var36	9.27E-35	Group B/C
	11	MW014600	3709	5	5	177.9	Group B/C	RAJ116var21	4.40E-43	Group B/C	RAJ116var26	1.58E-42	Group B/C	PFL0020w	7.42E-36	Group B/C	PF13_0364	5.77E-32	Group B/C	AAC47438	4.50E-28	Group B/C
	12	MW014601	3662	5	5	358.8	EPCR	PF11_0521	1.01E-98	EPCR	IT4var07	2.84E-89	EPCR	KX154875.1	3.84E-58	EPCR	KX154879.1	3.84E-58	EPCR	KX154949.1	3.84E-58	EPCR
	13	MW014602	2778	5	5	1349.6	Group B/C	RAJ116var26	0	Group B/C	PFCLINvar54	1.80E-101	Group B/C	DD2var11	1.80E-101	Group B/C	DD2var20	3.10E-79	Group B/C	IGHvar04	2.43E-70	Group B/C
	14	MW014603	2729	5	5	228.4	Group B/C	AY028643	2.07E-51	Group B/C	IT4var39	3.46E-49	Group B/C	PF1830c	1.25E-48	Group B/C	IGHvar35	9.70E-45	Group B/C	KX154912.1	4.54E-38	Group B/C
	15	MW014604	2626	5	5	195.1	Group B/C	KX154868.1	3.32E-49	Group B/C	IGHvar33	3.35E-44	Group B/C	RAJ116var21	5.60E-42	Group B/C	HB3var29	7.29E-36	Group B/C	RAJ116var26	1.59E-27	Group B/C
98	1	MW014605	20667	5	4	176.6	Group B/C	AAB60251	1.29E-48	Group B/C	KX154934.1	1.00E-44	Group B/C	DD2var07	1.00E-44	Group B/C	PFCLINvar31	3.60E-44	DC8	PFCLINvar54	2.17E-41	Group B/C
	2	MW014606	15310	5	5	210.8	Group B/C	PFCLINvar27	1.48E-47	Group B/C	KX154840.1	4.14E-43	Group B/C	KX154976.1	4.14E-43	Group B/C	IT4var31	4.14E-43	Group B/C	KX154956.1	1.50E-37	Group B/C
	3	MW014607	14540	5	4	229.2	Group B/C	KX154841.1	2.11E-65	Group B/C	HB3var34	5.90E-61	Group B/C	KX154863.1	1.28E-57	Group B/C	PFCLINvar71	3.60E-48	Group B/C	MAL6P1.316	3.63E-43	DC8
	4	MW014608	13949	5	4	171.7	Group B/C	IT4var30	8.86E-55	Group B/C	KX154831.1	1.50E-42	Group B/C	KX154870.1	1.50E-42	DC8	KX154821.1	2.52E-40	Group B/C	MAL6P1.1	5.45E-37	Group B/C
	5	MW014609	4918	5	2	203.8	EPCR	PFCLINvar73	5.15E-171	EPCR	KX154943.1	1.00E-63	Group A-Rosetting/Unknown	KX154978.1	1.01E-58	Group A-Rosetting/Unknown	PFCLINvar75	3.67E-48	Group A-Rosetting/Unknown	KX154818.1	2.90E-34	EPCR
	6	MW014610	4600	5	4	200.0	Group B/C	IT4var61	9.03E-60	Group B/C	TM2845var1	2.55E-50	Group B/C	PFC0005w	4.26E-48	Group B/C	KX154912.1	9.22E-45	Group B/C	IT4var20	7.18E-41	DC8
	7	MW014611	4568	5	5	236.9	Group B/C	IGHvar36	2.49E-50	Group B/C	KX154910.1	4.16E-48	Group B/C	PFE0005w	4.16E-48	Group B/C	PF13_0001	4.16E-48	Group B/C	PFL1955w	6.97E-46	Group B/C
	8	MW014612	3434	5	5	279.3	Group B/C	IT4var15	2.24E-70	Group B/C	DD2var13	2.24E-70	Group B/C	HB3var26	6.27E-66	Group B/C	KX154828.1	8.41E-40	Group B/C	KX154855.1	1.82E-36	Group B/C
	10	MW014613	2039	5	4	125.6	Group B/C	IT4var33	3.32E-44	Group B/C	IT4var32a	2.62E-30	Group B/C	IT4var14	2.62E-30	Group B/C	PF11_0008	3.41E-24	Group A-Rosetting/Unknown	HB3var12	1.23E-23	Group B/C
	11	MW014614	1658	5	5	709.0	EPCR	KX154875.1	1.98E-150	EPCR	KX154879.1	1.98E-150	EPCR	KX154949.1	1.98E-150	EPCR	AAQ73928	4.38E-132	EPCR	KX154904.1	2.64E-129	EPCR

	12	MW014615	1364	5	5	293.0	Group B/C	IT4var46	1.43E-82	Group B/C	TM284S2var1	1.47E-62	Group B/C	KX154916.1	6.86E-61	Group B/C	KX154823.1	4.16E-53	Group B/C	DD2var45	1.53E-37	Group B/C
	13	MW014616	1157	5	5	203.5	Group B/C	IT4var51	5.61E-47	Group B/C	RAJ116var04	7.30E-41	Group B/C	PFCLINvar54	2.63E-40	Group B/C	DD2var11	2.63E-40	Group B/C	KX154906.1	1.22E-38	Group B/C
	14	MW014617	1126	5	5	194.5	Group B/C	IGHvar04	7.37E-46	Group B/C	DD2var24	1.60E-42	Group B/C	IGHvar36	9.61E-40	Group B/C	PFCLINvar39	7.48E-36	Group B/C	DD2var12	3.48E-34	Group B/C
101	1	MW014618	36261	5	4	204.1	EPCR	KX154895.1	2.17E-85	EPCR	IT4var07	4.98E-42	EPCR	KX154844.1	2.32E-40	Group A-Rosetting/Unknown	KX154830.1	8.33E-40	EPCR	KX154867.1	8.33E-40	EPCR
	2	MW014619	24235	5	5	274.8	Group B/C	IT4var61	1.77E-86	Group B/C	KX154821.1	5.09E-62	Group B/C	PFC1120c	8.69E-45	Group B/C	PFC0005w	8.69E-45	Group B/C	TM284S2var1	2.43E-40	Group B/C
	3	MW014620	16899	5	3	207.4	DC8	IT4var13	7.49E-80	Group B/C	DD2var21	7.49E-80	Group B/C	KX154878.1	7.60E-70	DC8	KX154914.1	7.60E-70	DC8	KX154939.1	7.60E-70	DC8
	4	MW014621	11949	5	5	205.3	Group B/C	PFL0005w	1.41E-57	Group B/C	RAJ116var06	3.05E-54	Group B/C	AY028643	1.87E-36	Group B/C	DD2var33	5.24E-32	Group B/C	IGHvar25	1.13E-28	Group B/C
	5	MW014622	9777	5	5	235.3	Group B/C	IGHvar25	2.40E-55	Group B/C	PFCLINvar40	8.68E-50	Group B/C	IT4var32a	8.75E-45	Group B/C	IT4var14	8.75E-45	Group B/C	IGHvar21	3.15E-44	Group B/C
	6	MW014623	7444	5	4	466.0	EPCR	KX154869.1	8.99E-139	EPCR	KX154966.1	1.18E-127	EPCR	KX154954.1	2.00E-115	EPCR	KX154967.1	4.49E-87	EPCR	DD2var22	5.93E-71	Group A-Rosetting/Unknown
	7	MW014624	6799	5	5	254.1	Group B/C	PFE0005w	2.45E-60	Group B/C	PF13_0001	2.45E-60	Group B/C	AY028643	8.86E-55	Group B/C	KX154881.1	1.50E-42	Group B/C	KX154934.1	9.05E-40	Group B/C
109	1	MW014625	43465	5	4	309.2	EPCR	PFCLINvar49	1.28E-112	EPCR	KX154944.1	1.04E-78	Group A-Rosetting/Unknown	KX154845.1	1.05E-68	EPCR	IGHvar32	4.90E-67	EPCR	IGHvar09	1.06E-63	EPCR
	2	MW014626	14934	5	5	207.1	Group B/C	IGHvar37	8.08E-55	Group B/C	HB3var40	1.37E-42	Group B/C	DD2var44	2.29E-40	Group B/C	HB3var14	2.97E-39	Group B/C	MAL7P1.212	1.07E-33	Group B/C
	3	MW014627	8235	5	5	254.6	Group B/C	RAJ116var29	1.48E-72	Group B/C	KX154912.1	7.08E-51	Group B/C	KX154821.1	7.13E-46	Group B/C	DD2var50	7.13E-46	Group B/C	RAJ116var06	4.29E-43	Group B/C
	4	MW014628	7789	5	3	212.9	DC8	KX154953.1	2.65E-99	DC8	RAJ116var32	2.15E-65	Group B/C	KX154885.1	2.16E-60	DC8	KX154939.1	2.18E-55	DC8	KX154894.1	6.10E-51	Group B/C
	5	MW014629	6530	5	5	269.1	Group B/C	AY028643	2.51E-60	Group B/C	KX154821.1	7.03E-56	Group B/C	PFCLINvar40	3.27E-54	Group B/C	DD2var18	1.97E-51	Group B/C	DD2var31	7.08E-51	Group B/C
	6	MW014630	3220	5	5	159.5	Group B/C	KX154934.1	2.08E-36	Group B/C	IGHvar16	3.48E-34	Group B/C	HB3var33	3.48E-34	Group B/C	RAJ116var33	2.71E-30	Group B/C	IGHvar17	4.53E-28	Group B/C
	7	MW014631	2947	5	5	295.3	Group B/C	PFL1950w	3.12E-69	Group B/C	HB3var23	3.12E-69	Group B/C	IGHvar17	5.29E-57	Group B/C	DD2var31	4.12E-53	Group B/C	KX154907.1	2.48E-50	Group B/C
	8	MW014632	2902	5	5	848.7	var1csa	AAN86340	5.15E-171	var1csa	PFE1640w	5.15E-171	var1csa	KX154932.1	1.85E-170	var1csa	KX154948.1	1.85E-170	var1csa	KX154820.1	2.40E-169	var1csa
	9	MW014633	2609	5	5	277.6	Group B/C	IT4var46	1.70E-96	Group B/C	TM284S2var1	2.95E-69	Group B/C	DD2var33	1.84E-41	Group B/C	DD2var39	1.11E-38	Group B/C	RAJ116var39	2.40E-35	Group B/C
	10	MW014634	2499	5	5	192.4	Group B/C	RAJ116var39	6.94E-46	Group B/C	IT4var67	8.98E-45	Group B/C	DD2var39	3.25E-39	Group B/C	KX154905.1	3.28E-34	Group B/C	RAJ116var10	5.48E-32	Group B/C
	11	MW014635	2312	5	5	258.3	Group B/C	IGHvar29	2.75E-60	Group B/C	PFCLINvar41	2.14E-56	Group B/C	PFCLINvar43	7.69E-56	Group B/C	IT4var30	1.68E-47	Group B/C	PFCLINvar08	6.07E-42	Group B/C
	12	MW014636	1800	5	5	208.2	Group B/C	KX154906.1	7.99E-51	Group B/C	IGHvar35	1.73E-47	Group B/C	PFCLINvar43	6.27E-42	Group B/C	DD2var45	2.25E-41	Group B/C	PFCLINvar07	2.96E-30	Group B/C
	13	MW014637	1513	5	4	364.3	DC8	KX154939.1	9.45E-104	DC8	KX154947.1	4.40E-102	DC8	KX154873.1	9.65E-89	DC8	KX154953.1	1.28E-72	DC8	IT4var13	1.28E-67	Group B/C
	14	MW014638	1144	5	4	247.5	EPCR	KX154936.1	4.82E-72	EPCR	PFCLINvar62	3.75E-68	EPCR	RAJ116var03	2.94E-59	EPCR	KX154871.1	6.41E-51	EPCR	KX154877.1	6.41E-51	DC8
	15	MW014639	1117	5	5	205.8	Group B/C	RAJ116var29	1.43E-67	Group B/C	DD2var19	4.11E-43	Group B/C	KX154971.1	4.16E-33	Group B/C	RAJ116var26	4.16E-33	Group B/C	KX154824.1	1.50E-32	Group B/C
	16	MW014640	1031	5	5	262.7	Group B/C	HB3var10	1.64E-91	Group B/C	KX154855.1	1.35E-47	Group B/C	PF08_0142	1.35E-47	Group B/C	KX154916.1	1.76E-41	Group B/C	RAJ116var39	3.80E-38	Group B/C
	17	MW014641	1004	5	3	305.7	EPCR	KX154845.1	2.14E-110	EPCR	IGHvar09	2.15E-105	EPCR	IGHvar32	4.73E-92	EPCR	DD2var22	2.20E-90	Group A-Rosetting/Unknown	IT4var60	1.05E-73	Group A-Rosetting/Unknown
	18	MW014642	786	5	5	243.9	Group B/C	IGHvar08	2.69E-70	Group B/C	RAJ116var21	1.65E-52	Group B/C	PFCLINvar25	1.29E-48	Group B/C	KX154828.1	4.69E-38	Group B/C	IT4var44	4.69E-38	Group B/C
	19	MW014643	771	5	4	372.5	EPCR	KX154845.1	1.00E-103	EPCR	IGHvar09	1.01E-98	EPCR	IGHvar32	2.18E-95	EPCR	KX154944.1	1.04E-78	Group A-Rosetting/Unknown	PFCLINvar49	1.34E-77	EPCR
	20	MW014644	738	5	4	256.9	Group A-Rosetting/Unknown	IT4var60	1.35E-77	Group A-Rosetting/Unknown	IGHvar12	4.87E-77	Group A-Rosetting/Unknown	KX154887.1	6.44E-61	EPCR	HB3var05	8.39E-55	Group A-Rosetting/Unknown	KX154915.1	2.35E-50	Group A-Rosetting/Unknown
	21	MW014645	643	5	5	263.5	Group B/C	IT4var54	5.33E-82	Group B/C	IT4var45	7.10E-61	Group B/C	DD2var34	3.37E-44	Group B/C	PFD0625c	2.63E-40	Group B/C	DD2var24	9.45E-40	Group B/C

110	1	MW014646	29930	5	5	224.7	Group B/C	PF08_0142	1.41E-67	Group B/C	IGHvar38	5.23E-47	Group B/C	KX154955.1	5.26E-42	Group B/C	IGHvar31	1.91E-36	Group B/C	KX154905.1	2.47E-35	Group B/C
	2	MW014647	29093	5	5	305.5	Group B/C	RAJ116var14	4.65E-77	Group B/C	IGHvar38	1.30E-72	Group B/C	PF10_0406	6.14E-61	Group B/C	KX154815.1	2.24E-50	Group B/C	HB3var08	3.75E-48	Group B/C
	3	MW014648	11722	5	3	142.9	DC8	PFCLINvar09	2.79E-54	Group B/C	KX154933.1	1.00E-53	DC8	HB3var21	1.01E-48	Group B/C	KX154846.1	1.31E-47	DC8	KX154939.1	1.02E-43	DC8
	4	MW014649	9801	5	4	309.7	EPCR	KX154926.1	2.16E-79	EPCR	KX154899.1	2.83E-79	Group A-Rosetting/Unknown	DD2var42	1.02E-78	EPCR	KX154874.1	1.70E-76	EPCR	KX154959.1	4.80E-67	EPCR
	5	MW014650	9535	5	5	249.5	Group B/C	DD2var34	1.63E-57	Group B/C	IT4var62	4.56E-53	Group B/C	HB3var21	2.12E-51	Group B/C	PF1015c	5.94E-47	Group B/C	HB3var19	3.57E-44	Group B/C
	6	MW014651	7700	5	4	185.6	Group B/C	RAJ116var08	1.47E-62	DC8	RAJ116var22	5.38E-52	Group B/C	KX154831.1	1.16E-48	Group B/C	IT4var61	1.16E-48	Group B/C	RAJ116var36	3.28E-39	Group B/C
	7	MW014652	3626	5	5	228.4	Group B/C	IT4var54	1.56E-62	Group B/C	KX154828.1	4.44E-48	Group B/C	PF11830c	1.24E-42	Group B/C	IGHvar33	5.79E-42	Group B/C	RAJ116var28	7.54E-36	Group B/C
	8	MW014653	3626	5	5	240.2	Group B/C	IT4var30	1.91E-61	Group B/C	AY028643	3.24E-49	Group B/C	PFB1055c	1.95E-46	Group B/C	RAJ116var27	3.26E-44	Group B/C	PFA0005w	1.52E-42	Group B/C
	9	MW014654	3493	5	5	284.7	Group B/C	IT4var61	8.60E-70	Group B/C	IT4var16	4.03E-63	Group B/C	DD2var23	1.46E-57	Group B/C	KX154821.1	3.16E-54	Group B/C	TM284S2var1	1.15E-43	Group B/C
	10	MW014655	3337	5	5	277.7	Group B/C	PFCLINvar07	3.59E-69	Group B/C	RAJ116var09	2.17E-61	Group B/C	PFCLINvar46	7.87E-56	Group B/C	KX154908.1	3.69E-49	Group B/C	MAL7P1.56	7.99E-46	Group B/C
	11	MW014656	2473	5	5	172.0	Group B/C	KX154979.1	3.07E-49	Group B/C	PF100625c	1.46E-32	Group B/C	HB3var20	1.46E-32	Group B/C	IT4var47	5.24E-32	Group B/C	IT4var44	3.15E-39	Group B/C
	12	MW014657	1538	5	5	281.5	Group B/C	PFCLINvar40	2.99E-74	Group B/C	KX154822.1	2.34E-65	Group B/C	RAJ116var10	3.10E-49	Group B/C	IT4var32a	4.00E-48	Group B/C	IT4var14	4.00E-48	Group B/C
	13	MW014658	1239	5	5	359.9	Group B/C	IT4var15	1.01E-83	Group B/C	DD2var13	1.01E-83	Group B/C	HB3var26	4.70E-82	Group B/C	PF1005c	2.89E-64	Group B/C	DD2var29	8.21E-50	Group B/C
	14	MW014659	1223	5	5	214.8	Group B/C	KX154970.1	6.39E-66	Group B/C	KX154929.1	1.41E-47	Group B/C	KX154976.1	2.40E-35	Group B/C	IT4var31	2.40E-35	Group B/C	IT4var61	3.10E-34	Group B/C
	15	MW014660	1034	5	5	285.0	Group B/C	KX154832.1	2.69E-74	Group B/C	HB3var12	4.50E-72	Group B/C	HB3var40	2.15E-50	Group B/C	KX154866.1	6.03E-46	Group B/C	HB3var14	6.03E-46	Group B/C
	17	MW014661	904	5	4	255.8	EPCR	KX154874.1	1.70E-76	EPCR	DD2var42	2.22E-70	EPCR	KX154891.1	6.22E-66	Group A-Rosetting/Unknown	KX154830.1	6.30E-56	EPCR	KX154867.1	6.30E-56	EPCR
	18	MW014662	806	5	3	133.7	DC8	KX154933.1	2.84E-53	DC8	PFCLINvar09	1.03E-47	Group B/C	KX154846.1	4.78E-46	DC8	KX154939.1	1.35E-36	DC8	PFCLINvar36	2.94E-28	Group B/C
	19	MW014663	735	5	5	292.0	Group B/C	RAJ116var14	1.81E-71	Group B/C	IGHvar38	1.10E-63	Group B/C	PF08_0142	3.08E-59	Group B/C	DD2var30	1.43E-57	Group B/C	KX154955.1	1.13E-43	Group B/C
	20	MW014664	661	5	5	157.6	Group B/C	TM284S2var1	5.06E-36	Group B/C	RAJ116var24	2.35E-34	Group B/C	IGHvar25	8.46E-34	Group B/C	PFC0005w	8.52E-29	Group B/C	IT4var61	3.06E-28	Group B/C
	21	MW014665	648	5	5	188.7	Group B/C	HB3var07	1.10E-42	Group B/C	KX154955.1	2.37E-39	Group B/C	PFCLINvar40	3.07E-38	Group B/C	IGHvar31	1.43E-36	Group B/C	PFA0765c	1.85E-35	Group B/C
	23	MW014666	587	5	5	635.1	EPCR	KX154888.1	4.11E-177	EPCR	KX154903.1	4.35E-137	EPCR	KX154875.1	3.51E-108	EPCR	KX154879.1	3.51E-108	EPCR	KX154949.1	3.51E-108	EPCR
	24	MW014667	528	5	5	184.7	Group B/C	PF08_0142	2.37E-59	Group B/C	IT4var36	6.83E-35	Group B/C	KX154849.1	1.14E-32	Group B/C	KX154823.1	1.48E-31	Group B/C	KX154828.1	6.88E-30	Group B/C
	25	MW014668	465	5	5	242.1	Group B/C	IGHvar38	6.18E-56	Group B/C	RAJ116var14	1.03E-53	Group B/C	KX154849.1	6.23E-51	Group B/C	KX154815.1	1.05E-43	Group B/C	PFCLINvar24	1.76E-41	Group B/C
112	1	MW014669	28401	5	2	233.3	Group A-Rosetting/Unknown	KX154943.1	3.19E-148	Group A-Rosetting/Unknown	KX154978.1	1.62E-86	Group A-Rosetting/Unknown	PFCLINvar73	3.57E-68	EPCR	KX154875.1	1.71E-46	EPCR	KX154879.1	1.71E-46	EPCR
	2	MW014670	20064	5	4	332.5	EPCR	IGHvar26	6.00E-91	EPCR	KX154911.1	1.00E-88	EPCR	IT4var18	1.69E-81	EPCR	PF10020c	2.20E-75	DC8	KX154893.1	2.85E-74	EPCR
	3	MW014671	15048	5	3	231.2	EPCR	IT4var08	7.97E-85	Group A-Rosetting/Unknown	KX154945.1	1.33E-82	EPCR	IT4var07	1.74E-76	EPCR	PF11_0521	2.91E-74	EPCR	DD2var22	1.79E-56	Group A-Rosetting/Unknown
	4	MW014672	14109	5	4	238.6	EPCR	KX154895.1	1.01E-83	EPCR	HB3var1csa	2.93E-54	var1csa	KX154945.1	3.79E-53	EPCR	IT4var07	3.79E-53	EPCR	KX154887.1	1.77E-51	EPCR
	5	MW014673	11244	5	3	255.6	Group A-Rosetting/Unknown	IGHvar12	7.82E-105	Group A-Rosetting/Unknown	KX154891.1	7.98E-90	Group A-Rosetting/Unknown	KX154926.1	4.84E-82	EPCR	PFCLINvar62	4.94E-67	EPCR	RAJ116var19	3.85E-63	Group A-Rosetting/Unknown
	6	MW014674	7434	5	2	122.6	EPCR	KX154890.1	4.75E-62	EPCR	KX154959.1	4.75E-62	EPCR	KX154842.1	2.86E-59	Group A-Rosetting/Unknown	HB3var1csa	8.00E-55	var1csa	IGHvar24	1.73E-51	Group A-Rosetting/Unknown
	7	MW014675	5570	5	4	201.4	Group B/C	KX154846.1	9.83E-69	DC8	IGHvar05	2.13E-65	Group B/C	PF1015c	1.01E-48	Group B/C	PFCLINvar71	1.69E-46	Group B/C	PFCLINvar36	1.02E-43	Group B/C
	8	MW014676	4187	5	5	186.4	Group B/C	KX154910.1	2.43E-45	Group B/C	KX154853.1	6.81E-41	Group B/C	IT4var23	1.14E-38	Group B/C	KX154955.1	1.48E-32	Group B/C	PF100630c	1.48E-32	Group B/C
	9	MW014677	3738	5	3	285.7	EPCR	HB3var02	2.67E-99	EPCR	DD2var32	9.61E-99	EPCR	IGHvar30	7.54E-90	EPCR	KX154820.1	5.95E-76	var1csa	KX154858.1	2.77E-74	var1csa

	10	MW014678	3590	5	5	327.9	Group B/C	IT4var33	9.31E-85	Group B/C	PFL1955w	2.06E-66	Group B/C	KX154819.1	5.77E-62	Group B/C	IGHvar31	9.65E-60	Group B/C	KX154910.1	1.25E-58	Group B/C
	11	MW014679	1910	5	4	229.1	Group B/C	KX154894.1	3.86E-68	Group B/C	PFL0005w	3.91E-58	Group B/C	RAJ116var06	5.06E-57	Group B/C	RAJ116var08	1.82E-56	DC8	RAJ116var22	1.10E-48	Group B/C
	12	MW014680	1312	5	3	326.8	EPCR	IGHvar14	2.50E-179	EPCR	IGHvar26	1.02E-88	EPCR	PF00020c	6.25E-76	DC8	KX154936.1	6.38E-61	EPCR	KX154938.1	1.38E-57	DC8
	13	MW014681	1163	5	5	232.6	Group B/C	IT4var36	3.72E-73	Group B/C	PFL0020w	3.83E-53	Group B/C	HB3var10	4.99E-47	Group B/C	PFC1120c	3.94E-33	Group B/C	KX154831.1	8.53E-30	Group B/C
	14	MW014682	977	5	3	182.2	Group B/C	PFCLINvar06	2.31E-95	Group B/C	DD2var07	8.90E-45	Group B/C	DD2var41	3.20E-44	Group B/C	IT4var03	8.97E-40	Type 3 var	KX154825.1	1.52E-27	DC8
	16	MW014683	694	5	5	267.4	DC8	IT4var20	9.18E-60	DC8	DD2var47	9.18E-60	DC8	KX154942.1	5.57E-52	DC8	MAL6P1.316	5.57E-52	DC8	KX154889.1	1.56E-47	DC8
	17	MW014684	687	5	4	214.6	Group B/C	PFCLINvar52	1.77E-76	Group B/C	KX154907.1	5.10E-52	Group B/C	PFL0020w	3.07E-49	Group B/C	KX154928.1	6.64E-46	DC8	KX154831.1	8.65E-40	Group B/C
	18	MW014685	667	5	5	469.4	EPCR	KX154911.1	6.08E-101	EPCR	KX154887.1	4.74E-97	EPCR	IT4var18	4.74E-97	EPCR	KX154893.1	2.22E-90	EPCR	IGHvar26	1.34E-87	EPCR
114	1	MW014686	47371	5	5	128.2	Group B/C	KX154940.1	1.06E-33	Group B/C	KX154905.1	4.95E-32	Group B/C	DD2var44	2.98E-29	Group B/C	PF00010w	8.40E-20	Group B/C	KX154950.1	5.06E-17	Group B/C
	2	MW014687	32826	5	3	288.0	EPCR	PFCLINvar73	2.57E-119	EPCR	DD2var32	7.46E-90	EPCR	HB3var02	5.85E-81	EPCR	KX154943.1	4.56E-77	Group A-Rosetting/Unknown	KX154978.1	4.65E-62	Group A-Rosetting/Unknown
	3	MW014688	12628	5	5	185.0	Group B/C	KX154896.1	7.67E-41	Group B/C	RAJ116var30	9.93E-40	Group B/C	IT4var62	4.62E-38	Group B/C	IT4var68	1.66E-37	Group B/C	RAJ116var31	1.67E-32	Group B/C
	4	MW014689	9950	5	3	247.3	Group A-Rosetting/Unknown	KX154844.1	2.22E-90	Group A-Rosetting/Unknown	KX154891.1	4.80E-87	Group A-Rosetting/Unknown	KX154874.1	2.24E-85	EPCR	KX154845.1	4.91E-72	EPCR	IGHvar12	4.91E-72	Group A-Rosetting/Unknown
	5	MW014690	9272	5	4	289.2	DC8	KX154953.1	4.54E-87	DC8	KX154939.1	2.14E-75	DC8	KX154941.1	2.79E-69	DC8	RAJ116var32	1.30E-67	Group B/C	KX154925.1	2.19E-60	DC8
	6	MW014691	7853	5	3	272.3	EPCR	KX154926.1	1.28E-117	EPCR	IGHvar39	7.98E-90	EPCR	ACJ68328	2.28E-70	Group A-Rosetting/Unknown	RAJ116var07	2.95E-69	Group A-Rosetting/Unknown	KX154890.1	4.94E-67	EPCR
	7	MW014692	6999	5	5	1306.3	EPCR	KX154901.1	0	EPCR	KX154872.1	3.89E-88	EPCR	KX154935.1	2.37E-75	EPCR	IGHvar27	2.37E-75	EPCR	KX154918.1	2.39E-70	EPCR
	9	MW014693	6018	5	3	269.0	EPCR	PF11_0521	7.65E-120	EPCR	IT4var22	2.85E-94	EPCR	DQ408104	2.85E-94	Type 3 var	IT4var08	3.00E-59	Group A-Rosetting/Unknown	KX154945.1	5.01E-57	EPCR
	10	MW014694	5738	5	5	187.9	Group B/C	IT4var51	2.63E-50	Group B/C	PF00630c	7.43E-41	Group B/C	PF00635c	4.47E-38	Group B/C	IT4var34	5.82E-32	Group B/C	HB3var24	2.71E-30	Group B/C
	11	MW014695	5416	5	5	219.7	Group B/C	KX154831.1	8.84E-50	Group B/C	PFL0020w	3.18E-49	Group B/C	HB3var21	1.49E-42	Group B/C	IT4var32a	6.93E-41	Group B/C	IT4var14	6.93E-41	Group B/C
	12	MW014696	3534	5	4	110.1	Group B/C	RAJ116var08	6.35E-71	DC8	RAJ116var22	1.09E-48	Group B/C	KX154866.1	8.75E-25	Group B/C	KX154883.1	8.81E-20	Group B/C	IGHvar04	8.81E-20	Group B/C
	13	MW014697	3333	5	5	489.4	EPCR	IGHvar14	1.67E-111	EPCR	KX154911.1	2.83E-99	EPCR	IGHvar26	2.83E-99	EPCR	KX154902.1	1.03E-93	EPCR	KX154887.1	2.87E-89	EPCR
	14	MW014698	2725	5	3	170.0	EPCR	PFCLINvar75	1.03E-73	Group A-Rosetting/Unknown	KX154960.1	8.04E-65	EPCR	KX154918.1	2.25E-60	EPCR	PFCLINvar05	8.21E-50	Group A-Rosetting/Unknown	KX154958.1	4.94E-47	EPCR
115	1	MW014699	21516	5	4	273.0	EPCR	KX154936.1	2.19E-85	EPCR	PFCLINvar62	2.26E-65	EPCR	KX154945.1	1.36E-62	EPCR	IT4var07	1.36E-62	EPCR	IT4var08	6.32E-61	Group A-Rosetting/Unknown
	2	MW014700	10656	5	1	1000.0	EPCR	IGHvar23	0	EPCR	PFCLINvar69	1.42E-52	Group A-Rosetting/Unknown	IT4var09	1.43E-47	Group A-Rosetting/Unknown	KX154978.1	5.13E-47	Group A-Rosetting/Unknown	KX154915.1	1.85E-46	Group A-Rosetting/Unknown
	3	MW014701	7432	5	5	251.2	Group B/C	PFCLINvar55	9.36E-70	Group B/C	DD2var35	4.45E-53	Group B/C	KX154828.1	5.75E-52	Group B/C	IT4var39	5.84E-42	Group B/C	AAB60251	4.54E-38	Group B/C
	4	MW014702	6620	5	4	305.3	EPCR	PFCLINvar68	6.07E-96	EPCR	IGHvar14	7.97E-85	EPCR	ACJ68328	4.83E-77	Group A-Rosetting/Unknown	KX154936.1	1.36E-67	EPCR	KX154909.1	8.25E-60	EPCR
	5	MW014703	6310	5	5	315.7	Group B/C	PFCLINvar64	1.53E-72	Group B/C	IT4var66	1.53E-72	Group B/C	IT4var45	2.01E-61	Group B/C	RAJ116var36	9.34E-60	Group B/C	IGHvar33	4.38E-53	Group B/C
	6	MW014704	6097	5	3	256.2	Group A-Rosetting/Unknown	ACJ68328	2.83E-99	Group A-Rosetting/Unknown	IGHvar12	1.03E-88	Group A-Rosetting/Unknown	KX154830.1	4.87E-77	EPCR	KX154867.1	4.87E-77	EPCR	KX154915.1	2.28E-70	Group A-Rosetting/Unknown
	7	MW014705	6034	5	5	237.3	Group B/C	IT4var45	4.38E-53	Group B/C	IGHvar04	4.38E-53	Group B/C	MAL7P1.50	1.58E-47	Group B/C	IGHvar06	7.37E-46	Group B/C	KX154840.1	2.06E-41	Group B/C
	8	MW014706	4908	5	2	44.8	Group A-Rosetting/Unknown	DD2var04	1.35E-27	Group A-Rosetting/Unknown	PFCLINvar71	1.36E-22	Group B/C	KX154856.1	2.27E-20	DC8	PF08_0141	1.06E-18	Group A-Rosetting/Unknown	DD2var31	3.80E-18	Group B/C
	9	MW014707	3785	5	5	212.0	Group B/C	PF07_0048	8.51E-45	Group B/C	RAJ116var13	3.96E-43	Group B/C	IT4var26	3.96E-43	Group B/C	PF08_0106	1.42E-42	Group B/C	PFCLINvar23	5.12E-42	Group B/C
	10	MW014708	3740	5	4	150.6	EPCR	PFCLINvar33	8.36E-90	Group A-Rosetting/Unknown	KX154901.1	3.11E-64	EPCR	KX154918.1	9.10E-30	EPCR	KX154949.1	9.10E-30	EPCR	AAQ73928	9.10E-30	EPCR

	11	MW014709	3258	5	3	264.5	DC8	KX154877.1	6.01E-116	DC8	KX154847.1	2.29E-75	DC8	KX154898.1	2.29E-75	DC8	PF08_0140	8.65E-40	EPCR	RAJ116var06	1.45E-37	Group B/C
	12	MW014710	3158	5	4	107.3	Group B/C	PFCLINvar31	1.16E-33	DC8	KX154864.1	6.97E-31	Group B/C	MAL7P1.50	1.17E-28	Group B/C	KX154900.1	5.43E-27	Group B/C	DD2var29	1.17E-23	Group B/C
	13	MW014711	2812	5	5	869.1	var1csa	KX154917.1	1.94E-180	var1csa	DD2var25	2.50E-179	var1csa	AJ420411	2.50E-179	var1csa	IGHvar11	2.54E-169	var1csa	AAM55194	2.56E-164	var1csa
	14	MW014712	2775	5	5	369.0	Group B/C	KX154955.1	2.60E-100	Group B/C	HB3var24	4.47E-78	Group B/C	KX154956.1	1.63E-67	Group B/C	IGHvar29	2.73E-65	Group B/C	RAJ116var09	2.12E-61	Group B/C
	15	MW014713	2402	5	5	142.1	Group B/C	KX154863.1	2.22E-35	Group B/C	IGHvar06	2.22E-35	Group B/C	TM284S2var1	1.73E-31	Group B/C	PF08_0103	1.35E-27	Group B/C	PFCLIN120c	6.35E-16	Group B/C
	16	MW014714	2175	5	5	546.7	EPCR	AAQ73928	2.68E-119	EPCR	KX154903.1	1.61E-116	EPCR	KX154888.1	3.49E-113	EPCR	KX154949.1	5.91E-101	EPCR	KX154875.1	2.13E-100	EPCR
	17	MW014715	2136	5	5	228.0	Group B/C	HB3var40	4.06E-63	Group B/C	DD2var18	8.92E-50	Group B/C	HB3var26	4.18E-43	Group B/C	DD2var51	3.25E-39	Group B/C	HB3var33	1.96E-36	Group B/C
	18	MW014716	1617	5	5	199.3	Group B/C	PFCLINvar41	6.36E-42	Group B/C	RAJ116var30	2.29E-41	Group B/C	HB3var13	2.29E-41	Group B/C	RAJ116var34	1.06E-39	Group B/C	PFE0005w	1.38E-38	Group B/C
	19	MW014717	1271	5	4	256.1	DC8	KX154942.1	5.54E-67	DC8	MAL6P1.316	5.54E-67	DC8	IT4var20	1.55E-62	DC8	DD2var47	1.55E-62	DC8	IGHvar36	9.47E-50	Group B/C
	20	MW014718	1130	5	5	195.2	Group B/C	IGHvar35	7.08E-51	Group B/C	PFL2665c	1.19E-43	Group B/C	KX154850.1	2.01E-36	Group B/C	PFCLINvar22	9.35E-35	Group B/C	IGHvar29	4.35E-33	Group B/C
	21	MW014719	1120	5	3	314.6	EPCR	KX154902.1	9.49E-129	EPCR	PFD0020c	5.75E-121	DC8	KX154938.1	5.87E-106	DC8	KX154911.1	2.14E-95	EPCR	KX154893.1	1.29E-92	EPCR
	22	MW014720	1118	5	4	179.4	Group B/C	PFC1120c	1.59E-62	Group B/C	KX154928.1	2.66E-60	DC8	IT4var61	2.72E-45	Group B/C	HB3var16	2.12E-41	Group B/C	RAJ116var22	4.61E-33	Group B/C
	23	MW014721	958	5	5	224.8	Group B/C	KX154916.1	8.55E-55	Group B/C	PFCLINvar45	2.39E-50	Group B/C	PF08_0142	6.70E-46	Group B/C	PFCLINvar52	1.45E-42	Group B/C	IT4var36	8.79E-35	Group B/C
	24	MW014722	854	5	5	496.1	EPCR	AAQ73928	1.27E-102	EPCR	KX154903.1	2.13E-100	EPCR	KX154949.1	2.75E-99	EPCR	KX154875.1	9.90E-99	EPCR	KX154879.1	9.90E-99	EPCR
	25	MW014723	793	5	5	256.9	Group B/C	KX154819.1	2.42E-85	Group B/C	IT4var27	9.22E-45	Group B/C	DD2var01b	9.22E-45	Group B/C	DD2var01a	9.22E-45	Group B/C	PFCLINvar08	7.18E-41	Group B/C
	26	MW014724	774	5	4	281.4	EPCR	PFCLINvar49	1.68E-91	EPCR	KX154911.1	6.27E-66	EPCR	IGHvar09	6.27E-66	EPCR	PF11820w	4.89E-62	Type 3 var	KX154845.1	6.32E-61	EPCR
	27	MW014725	688	5	5	216.0	Group B/C	DD2var35	1.72E-52	Group B/C	HB3var29	1.73E-47	Group B/C	HB3var30	6.22E-47	Group B/C	PFCLINvar54	2.27E-36	Group B/C	DD2var11	2.27E-36	Group B/C
	28	MW014726	601	5	5	566.7	var1csa	KX154917.1	9.81E-119	var1csa	DD2var25	9.81E-119	var1csa	AJ420411	9.81E-119	var1csa	IGHvar11	9.95E-109	var1csa	AAM55194	2.15E-105	var1csa
	29	MW014727	564	5	3	111.4	Group B/C	IT4var64	3.60E-44	Group A-Rosetting/Unknown	DD2var52	3.60E-44	Group A-Rosetting/Unknown	KX154955.1	4.66E-43	Group B/C	KX154896.1	6.07E-37	Group B/C	PFE0005w	1.31E-33	Group B/C
	30	MW014728	534	5	5	212.4	Group B/C	IT4var62	5.52E-52	Group B/C	RAJ116var31	2.59E-45	Group B/C	IGHvar13	2.01E-41	Group B/C	PFL1950w	1.21E-38	Group B/C	HB3var23	1.21E-38	Group B/C
	31	MW014729	522	5	5	268.0	Group B/C	KX154979.1	8.81E-65	Group B/C	IGHvar25	4.13E-58	Group B/C	IT4var61	3.21E-54	Group B/C	PFCLINvar41	1.51E-47	Group B/C	TM284S2var1	5.42E-47	Group B/C
	32	MW014730	522	5	5	255.1	Group B/C	KX154922.1	1.20E-58	Group B/C	PFCLINvar64	5.57E-57	Group B/C	IT4var66	5.57E-57	Group B/C	HB3var13	3.40E-44	Group B/C	PFCLINvar41	5.69E-42	Group B/C
	33	MW014731	501	5	5	174.7	Group B/C	DD2var35	1.46E-41	Group B/C	AAB60251	1.14E-37	Group B/C	PF00005w	1.14E-37	Group B/C	KX154828.1	2.46E-34	Group B/C	PFCLINvar54	4.14E-27	Group B/C
	34	MW014732	488	5	4	268.5	Group B/C	IGHvar20	2.12E-150	Group B/C	IGHvar01	5.20E-57	Group B/C	PFCLINvar30	4.05E-53	DC8	HB3var07	1.50E-32	Group B/C	RAJ116var39	1.94E-31	Group B/C
	35	MW014733	445	5	3	136.1	EPCR	KX154944.1	1.08E-58	Group A-Rosetting/Unknown	KX154959.1	3.02E-54	EPCR	PF13_0003	5.05E-52	Group A-Rosetting/Unknown	DD2var40	5.12E-42	EPCR	DD2var09a	5.12E-42	EPCR
	36	MW014734	435	5	5	601.2	var1csa	IT4var35	2.68E-124	var1csa	AAM55194	1.61E-121	var1csa	TM284var3	1.61E-121	var1csa	IGHvar11	1.61E-121	var1csa	KX154915.1	5.85E-116	var1csa
	37	MW014735	434	5	4	159.4	Group B/C	KX154906.1	1.64E-42	Group B/C	KX154971.1	2.74E-40	Group B/C	IGHvar40	2.74E-40	Group B/C	PF01235w	3.54E-39	EPCR	MAL7P1.1	3.54E-39	Group B/C
	38	MW014736	393	5	4	221.5	Group B/C	IT4var23	1.04E-64	Group B/C	IT4var45	4.85E-58	Group B/C	IGHvar33	4.88E-53	Group B/C	PFCLINvar08	1.37E-48	Group B/C	KX154825.1	2.96E-45	DC8
116	1	MW014737	22773	5	4	179.4	Group B/C	PFC1120c	1.59E-62	Group B/C	KX154928.1	2.66E-60	DC8	IT4var61	2.72E-45	Group B/C	HB3var16	2.12E-41	Group B/C	RAJ116var22	4.61E-33	Group B/C
	2	MW014738	21411	5	5	315.7	Group B/C	PFCLINvar64	1.53E-72	Group B/C	IT4var66	1.53E-72	Group B/C	IT4var45	2.01E-61	Group B/C	RAJ116var36	9.34E-60	Group B/C	IGHvar33	4.38E-53	Group B/C
	3	MW014739	11039	5	4	150.6	EPCR	PFCLINvar33	8.36E-90	Group A-Rosetting/Unknown	KX154901.1	3.11E-64	EPCR	KX154918.1	9.10E-30	EPCR	KX154949.1	9.10E-30	EPCR	AAQ73928	9.10E-30	EPCR
	4	MW014740	9850	5	5	224.8	Group B/C	KX154916.1	8.55E-55	Group B/C	PFCLINvar45	2.39E-50	Group B/C	PF08_0142	6.70E-46	Group B/C	PFCLINvar52	1.45E-42	Group B/C	IT4var36	8.79E-35	Group B/C

	5	MW014741	9621	5	5	251.2	Group B/C	PFCLIN var55	9.36E-70	Group B/C	DD2var3 5	4.45E-53	Group B/C	KX1548 28.1	5.75E-52	Group B/C	IT4var3 9	5.84E-42	Group B/C	AAB602 51	4.54E-38	Group B/C
	6	MW014742	6003	5	3	264.5	DC8	KX1548 77.1	6.01E-116	DC8	KX1548 47.1	2.29E-75	DC8	KX1548 98.1	2.29E-75	DC8	PF08_01 40	8.65E-40	EPCR	RAJ116 var06	1.45E-37	Group B/C
	7	MW014743	2934	5	5	191.0	Group B/C	PFCLIN var41	2.96E-40	Group B/C	RAJ116 var30	1.06E-39	Group B/C	HB3var1 3	1.06E-39	Group B/C	RAJ116 var34	4.95E-38	Group B/C	PFE0005 w	6.41E-37	Group B/C
	9	MW014744	2264	5	3	111.4	Group B/C	IT4var64	3.60E-44	Group A-Rosetting/Unknown	DD2var5 2	3.60E-44	Group A-Rosetting/Unknown	KX1549 55.1	4.66E-43	Group B/C	KX1548 96.1	6.07E-37	Group B/C	PFE0005 w	1.31E-33	Group B/C
	10	MW014745	2255	5	4	215.6	Group B/C	RAJ116 var23	9.27E-65	Group B/C	RAJ116 var01	9.27E-65	Group B/C	KX1549 60.1	9.47E-50	EPCR	IT4var2 3	9.54E-45	Group B/C	IT4var62	3.43E-44	Group B/C
	11	MW014746	2086	5	4	335.8	EPCR	PFCLIN var62	9.95E-109	EPCR	IT4var60	1.70E-91	Group A-Rosetting/Unknown	KX1549 24.1	1.33E-82	EPCR	KX1548 74.1	1.74E-76	EPCR	KX1548 30.1	6.29E-71	EPCR
	12	MW014747	1355	5	4	281.4	EPCR	PFCLIN var49	1.68E-91	EPCR	KX1549 11.1	6.27E-66	EPCR	IGHvar0 9	6.27E-66	EPCR	PF11820 w	4.89E-62	Type 3 var	KX1548 45.1	6.32E-61	EPCR
	14	MW014748	1013	5	4	107.3	Group B/C	PFCLIN var31	1.16E-33	DC8	KX1548 64.1	6.97E-31	Group B/C	MAL7P 1.50	1.17E-28	Group B/C	KX1549 00.1	5.43E-27	Group B/C	DD2var2 9	1.17E-23	Group B/C
117	1	MW014749	6878 3	5	5	195.1	Group B/C	KX1549 71.1	1.60E-47	Group B/C	TM284S 2var1	5.79E-72	Group B/C	KX1548 28.1	5.83E-37	Group B/C	IGHvar1 7	5.83E-37	Group B/C	IGHvar4 0	2.71E-35	Group B/C
	2	MW014750	5749	5	5	303.0	Group B/C	IGHvar4 0	4.11E-73	Group B/C	IT4var45	6.93E-66	Group B/C	IT4var62	5.40E-62	Group B/C	KX1549 71.1	1.18E-53	Group B/C	AY0286 43	5.47E-52	Group B/C
	3	MW014751	5265	5	5	226.8	Group B/C	IT4var23	1.21E-58	Group B/C	PFL1960 w	5.70E-47	Group B/C	IT4var54	5.74E-42	Group B/C	PFCLIN var65	2.06E-41	Group B/C	IT4var59	2.06E-41	Group B/C
	4	MW014752	4048	5	5	173.7	Group B/C	KX1549 06.1	1.06E-63	Group B/C	HB3var4 8	2.39E-30	Group B/C	PFL0005 w	3.10E-29	Group B/C	DD2var 33	3.10E-29	Group B/C	RAJ116 var22	8.67E-25	Group B/C
	5	MW014753	3718	5	5	285.0	Group B/C	KX1548 32.1	2.69E-74	Group B/C	HB3var1 2	4.50E-72	Group B/C	HB3var4 0	2.15E-50	Group B/C	KX1548 66.1	6.03E-46	Group B/C	HB3var1 4	6.03E-46	Group B/C
	6	MW014754	3158	5	5	214.6	Group B/C	PFL0935 c	1.51E-57	Group B/C	IGHvar0 3	1.19E-43	Group B/C	RAJ116 var09	5.55E-42	Group B/C	IGHvar1 7	1.20E-38	Group B/C	KX1549 40.1	2.01E-36	Group B/C
	7	MW014755	2197	5	5	1513. 6	var1csa	DD2var2 5	0	var1csa	AJ42041 1	0	var1csa	KX1549 17.1	9.01E-179	var1csa	IGHvar1 1	5.46E-171	var1csa	AAM55 194	5.50E-166	var1csa
	8	MW014756	1712	5	5	232.4	Group B/C	IGHvar0 4	3.33E-59	Group B/C	PF07_00 49	2.61E-50	Group B/C	PF0602 5c	4.37E-48	Group B/C	DD2var 24	9.53E-40	Group B/C	IT4var62	1.23E-38	Group B/C
	9	MW014757	1635	5	5	179.6	Group B/C	TM284S 2var1	5.45E-42	Group B/C	KX1548 28.1	5.49E-37	Group B/C	IGHvar1 7	5.49E-37	Group B/C	IT4var6 7	9.19E-35	Group B/C	RAJ116 var22	1.54E-32	Group B/C
	10	MW014758	1323	5	5	177.4	Group B/C	PFA000 5w	8.97E-40	Group B/C	IT4var47	1.16E-38	Group B/C	RAJ116 var13	9.03E-35	Group B/C	DD2var 16	3.25E-34	Group B/C	PFCLIN var29	1.17E-33	Group B/C
	11	MW014759	1131	5	5	285.8	Group B/C	IGHvar4 0	1.14E-73	Group B/C	IT4var62	1.94E-61	Group B/C	KX1548 19.1	5.43E-57	Group B/C	AY0286 43	3.29E-49	Group B/C	IT4var45	4.26E-48	Group B/C
	12	MW014760	927	5	5	236.3	Group B/C	IT4var45	8.96E-65	Group B/C	IT4var39	4.23E-53	Group B/C	IGHvar4 0	4.29E-43	Group B/C	IT4var2 3	5.55E-42	Group B/C	HB3var2 8	5.59E-37	Group B/C
	13	MW014761	923	5	5	196.2	Group B/C	IT4var17	2.57E-55	Group B/C	PFL1950 w	2.04E-36	Group B/C	HB3var2 3	2.04E-36	Group B/C	PFE000 5w	7.35E-36	Group B/C	PF13_00 01	7.35E-36	Group B/C
	14	MW014762	711	5	5	208.0	Group B/C	HB3var3 0	2.45E-65	Group B/C	DD2var4 5	1.52E-42	Group B/C	PF0100 0c	9.19E-35	Group B/C	PF0099 5c	9.19E-35	Group B/C	IGHvar1 8	3.31E-34	Group B/C
118	1	MW014763	4108 4	5	5	304.9	EPCR	KX1549 36.1	1.04E-73	EPCR	PFCLIN var62	8.06E-70	EPCR	RAJ116 var03	6.32E-61	EPCR	KX1548 71.1	1.38E-52	EPCR	IGHvar1 4	1.78E-51	EPCR
	2	MW014764	1701 6	5	3	154.0	DC8	KX1549 33.1	9.77E-59	DC8	DD2var2 9	2.12E-55	Group B/C	KX1548 64.1	7.66E-50	Group B/C	KX1549 42.1	9.91E-49	DC8	MAL6P 1.316	9.91E-49	DC8
	3	MW014765	1685 3	5	3	130.5	Group B/C	PFCLIN var05	8.82E-70	Group A-Rosetting/Unknown	DD2var4 8	3.24E-54	Group B/C	KX1548 29.1	2.54E-45	Group B/C	IGHvar0 9	1.19E-38	EPCR	PFCLIN var39	4.31E-33	Group B/C
	4	MW014766	1564 8	5	5	280.6	Group B/C	KX1549 56.1	3.37E-74	Group B/C	IGHvar0 2	9.57E-60	Group B/C	KX1548 32.1	3.47E-54	Group B/C	PF13_03 64	2.70E-50	Group B/C	PFE0005 w	7.56E-46	Group B/C
	5	MW014767	8388	5	3	226.2	DC8	KX1549 53.1	2.63E-104	DC8	KX1548 85.1	4.65E-62	DC8	KX1549 39.1	4.65E-62	DC8	RAJ116 var32	2.82E-54	Group B/C	KX1548 94.1	1.32E-47	Group B/C
	6	MW014768	5932	5	5	150.9	Group B/C	HB3var2 5	2.28E-65	Group B/C	PFCLIN var25	3.98E-33	Group B/C	IT4var26	1.12E-23	Group B/C	PF11_00 07	5.26E-17	Group B/C	DD2var2 6	2.45E-15	Group B/C
	7	MW014769	5363	5	5	247.5	Group B/C	RAJ116 var39	3.07E-54	Group B/C	PFCLIN var47	6.65E-51	Group B/C	DD2var3 9	8.61E-50	Group B/C	PFL196 0w	3.10E-49	Group B/C	PFCLIN var27	5.18E-47	Group B/C
	8	MW014770	1773	5	5	218.6	Group B/C	RAJ116 var06	1.88E-51	Group B/C	PF10_04 06	2.45E-45	Group B/C	KX1549 34.1	8.83E-45	Group B/C	RAJ116 var14	2.47E-40	Group B/C	DD2var2 3	2.47E-40	Group B/C
	9	MW014771	1659	5	3	221.2	EPCR	KX1549 66.1	2.17E-80	EPCR	KX1548 69.1	1.30E-77	EPCR	RAJ116 var05	2.18E-75	Group A-Rosetting/Unknown	DD2var 22	1.32E-67	Group A-Rosetting/Unknown	RAJ116 var03	2.21E-65	EPCR
	10	MW014772	1314	5	5	231.6	Group B/C	DD2var3 7	6.10E-51	Group B/C	IGHvar0 5	1.02E-48	Group B/C	IT4var11	1.71E-46	Group B/C	PFCLIN var74	7.95E-45	Group B/C	KX1549 72.1	2.86E-44	Group B/C

	11	MW01 4773	1064	5	5	243.5	Group B/C	RAJ116 var09	3.33E -54	Group B/C	KX1548 53.1	3.35E -49	Group B/C	KX1549 71.1	1.20E -48	Group B/C	IT4var3 0	1.20E -48	Group B/C	KX1548 19.1	2.02E -46	Group B/C
	12	MW01 4774	980	5	3	141.7	Group B/C	PFL1950 w	1.09E -48	Group B/C	HB3var2 3	1.09E -48	Group B/C	PFD061 5c	1.83E -46	Group B/C	KX1548 27.1	8.51E -45	DC8	KX1549 19.1	3.96E -43	DC8
	13	MW01 4775	962	5	4	295.3	EPCR	KX1548 90.1	1.03E -83	EPCR	IGHvar2 4	1.05E -73	Group A- Rosetting/Unknow n	KX1549 23.1	4.86E -72	EPCR	KX1549 37.1	4.86E -72	EPCR	KX1548 57.1	2.26E -70	EPCR
	14	MW01 4776	881	5	5	451.6	Group B/C	PFCLIN var44	5.68E -136	Group B/C	DD2var4 6	5.68E -136	Group B/C	HB3var4 0	1.74E -66	Group B/C	MAL7P 1.212	8.17E -60	Group B/C	HB3var2 0	4.92E -57	Group B/C
123	1	MW01 4777	3699 5	5	5	158.0	Group B/C	PF08_01 03	7.11E -36	Group B/C	PFCLIN var11	2.56E -35	Group B/C	IGHvar3 3	2.56E -35	Group B/C	PFCLIN var56	1.55E -27	Group B/C	HB3var0 7	1.55E -27	Group B/C
	2	MW01 4778	2541 4	5	5	226.6	Group B/C	KX1548 81.1	1.04E -54	Group B/C	IT4var16	1.04E -54	Group B/C	HB3var1 9	1.37E -43	Group B/C	DD2var 23	8.23E -41	Group B/C	PFCLIN var22	2.30E -36	Group B/C
	4	MW01 4779	2142 4	5	3	158.2	DC8	KX1548 25.1	6.88E -71	DC8	KX1549 46.1	1.95E -56	DC8	IT4var39	1.55E -37	Group B/C	DD2var 49	2.60E -35	EPCR	KX1548 70.1	4.35E -33	DC8
124	1	MW01 4780	2546 4	5	5	219.9	Group B/C	IT4var45	8.05E -51	Group B/C	IGHvar4 0	1.74E -47	Group B/C	DD2var3 4	1.76E -42	Group B/C	PFD062 5c	2.27E -41	Group B/C	HB3var2 8	2.27E -41	Group B/C
	2	MW01 4781	8211	5	5	151.1	Group B/C	IGHvar1 6	1.66E -37	Group B/C	IT4var63	4.65E -33	Group B/C	IGHvar2 1	1.01E -29	Group B/C	PFL196 0w	4.68E -28	Group B/C	DD2var1 0	2.18E -26	Group B/C
	3	MW01 4782	7991	5	4	226.3	Group B/C	PFCLIN var28	2.30E -85	Group B/C	KX1548 48.1	1.85E -56	Group B/C	AAQ739 29	5.23E -47	Type 3 var	HB3var 16	3.15E -44	Group B/C	RAJ116 var22	4.07E -43	Group B/C
	4	MW01 4783	6137	5	5	1151. 6	Group B/C	DD2var4 1	0	Group B/C	DD2var0 7	0	Group B/C	HB3var1 6	8.81E -65	Group B/C	KX1548 81.1	1.50E -52	Group B/C	RAJ116 var21	1.98E -36	Group B/C
	5	MW01 4784	5837	5	4	207.8	Group B/C	KX1549 34.1	2.52E -75	Group B/C	DD2var4 5	5.65E -47	Group B/C	PFCLIN var66	2.63E -45	Group B/C	DD2var 29	4.40E -43	Group B/C	KX1548 61.1	1.23E -38	DC8
	6	MW01 4785	4325	5	5	225.1	Group B/C	KX1549 55.1	5.59E -72	Group B/C	PFD124 5c	2.72E -40	Group B/C	HB3var2 8	2.72E -40	Group B/C	KX1549 10.1	1.26E -38	Group B/C	IT4var33	1.63E -37	Group B/C
	7	MW01 4786	3666	5	5	311.9	Group B/C	KX1548 49.1	5.03E -112	Group B/C	DD2var2 3	1.93E -66	Group B/C	PFCLIN var08	1.97E -51	Group B/C	RAJ116 var06	4.29E -43	Group B/C	DD2var3 1	1.54E -42	Group B/C
	8	MW01 4787	3308	5	5	231.5	Group B/C	PFCLIN var27	3.78E -63	Group B/C	DD2var3 0	1.07E -48	Group B/C	HB3var0 7	1.40E -42	Group B/C	RAJ116 var10	5.03E -42	Group B/C	KX1549 16.1	1.09E -38	Group B/C
	9	MW01 4788	2178	5	4	158.5	Group B/C	PFCLIN var45	8.53E -50	Group B/C	IT4var01	6.69E -41	Group B/C	KX1548 24.1	2.42E -35	Group B/C	IT4var4 0	2.42E -35	Group B/C	PFCLIN var31	1.13E -33	DC8
	10	MW01 4789	1977	5	5	267.9	Group B/C	IGHvar0 8	5.45E -67	Group B/C	RAJ116 var21	5.49E -62	Group B/C	IT4var10	1.20E -48	Group B/C	AAC052 20	1.20E -48	Group B/C	DD2var3 4	2.61E -45	Group B/C
	11	MW01 4790	1838	5	4	359.2	EPCR	IT4var07	5.99E -106	EPCR	PF11_05 21	4.69E -97	EPCR	IT4var08	2.20E -90	Group A- Rosetting/Unknow n	KX1549 45.1	1.02E -88	EPCR	KX1549 03.1	2.26E -70	EPCR
	12	MW01 4791	1630	5	5	218.4	Group B/C	PF07_00 48	2.68E -60	Group B/C	RAJ116 var36	4.59E -43	Group B/C	IT4var47	1.65E -42	Group B/C	IT4var3 4	2.76E -40	Group B/C	IT4var68	7.73E -36	Group B/C
	13	MW01 4792	1251	5	3	158.3	EPCR	PF11_05 21	2.99E -74	EPCR	PFCLIN var33	1.10E -58	Group A- Rosetting/Unknow n	DD2var0 9b	1.12E -43	Group A- Rosetting/Unknow n	IT4var0 7	4.03E -43	EPCR	HB3var0 3	4.03E -43	EPCR
	14	MW01 4793	1188	5	5	310.0	Group B/C	KX1549 55.1	2.63E -90	Group B/C	HB3var4 7	2.75E -60	Group B/C	HB3var0 9	2.75E -60	Group B/C	PFD063 0c	4.60E -58	Group B/C	PFD062 5c	1.01E -44	Group B/C
	15	MW01 4794	1144	5	5	193.9	Group B/C	HB3var2 2	7.80E -46	Group B/C	IT4var45	7.86E -41	Group B/C	PFCLIN var41	4.73E -38	Group B/C	RAJ116 var34	2.20E -36	Group B/C	HB3var2 8	2.20E -36	Group B/C
	16	MW01 4795	920	5	5	251.1	Group B/C	KX1548 84.1	5.85E -57	Group B/C	KX1548 50.1	2.11E -56	Group B/C	PFD063 0c	2.12E -51	Group B/C	IGHvar3 1	2.76E -45	Group B/C	PFD063 5c	9.94E -45	Group B/C
	17	MW01 4796	896	5	5	222.4	Group B/C	HB3var1 6	2.00E -51	Group B/C	DD2var3 8	2.00E -51	Group B/C	PF08_01 42	1.56E -47	Group B/C	HB3var 33	9.45E -40	Group B/C	KX1548 31.1	7.35E -36	Group B/C
	18	MW01 4797	877	5	5	245.0	Group B/C	IGHvar2 5	2.68E -60	Group B/C	KX1548 26.1	1.25E -58	Group B/C	PF11830 c	7.62E -46	Group B/C	HB3var 24	7.62E -46	Group B/C	PFD063 5c	4.62E -38	Group B/C
	19	MW01 4798	815	5	3	210.6	Group A- Rosetting/Unknow n	KX1548 72.1	1.02E -78	EPCR	KX1548 43.1	6.13E -76	Group A- Rosetting/Unknow n	RAJ116 var17	6.17E -71	Group A- Rosetting/Unknow n	IGHvar3 9	6.17E -71	EPCR	RAJ116 var19	6.22E -66	Group A- Rosetting/Unknow n
	20	MW01 4799	769	5	5	312.0	Group B/C	PFL0005 w	2.25E -95	Group B/C	MAL6P 1.1	6.61E -56	Group B/C	HB3var4 7	6.61E -56	Group B/C	HB3var 09	6.61E -56	Group B/C	RAJ116 var06	1.43E -52	Group B/C
	21	MW01 4800	749	5	5	140.7	Group B/C	RAJ116 var14	9.36E -34	Group B/C	IGHvar4 0	4.35E -32	Group B/C	PFD061 5c	1.57E -31	Group B/C	IT4var6 1	2.64E -24	Group B/C	PFCLIN var41	1.23E -22	Group B/C
	22	MW01 4801	705	5	3	213.4	EPCR	PFCLIN var68	3.64E -83	EPCR	RAJ116 var16	7.87E -80	Group A- Rosetting/Unknow n	RAJ116 var19	7.98E -70	Group A- Rosetting/Unknow n	KX1549 09.1	1.03E -68	EPCR	KX1549 11.1	1.04E -63	EPCR
	23	MW01 4802	602	5	4	134.6	Group B/C	HB3var1 6	8.57E -40	Group B/C	IGHvar2 0	5.16E -37	Group B/C	PFCLIN var30	1.12E -33	DC8	DD2var 20	4.01E -33	Group B/C	DD2var4 8	1.45E -27	Group B/C
	24	MW01 4803	595	5	5	237.9	Group B/C	PFCLIN var66	2.06E -56	Group B/C	PFD061 5c	4.45E -53	Group B/C	DD2var4 5	2.08E -46	Group B/C	PFCLIN var41	2.70E -45	Group B/C	PF11830 c	2.72E -40	Group B/C
	25	MW01 4804	548	5	5	332.8	Group B/C	IT4var30	7.27E -96	Group B/C	PF11830 c	1.26E -68	Group B/C	IGHvar4 0	2.75E -60	Group B/C	IT4var0 5	3.55E -59	Group B/C	KX1549 71.1	1.67E -52	Group B/C

	26	MW01 4805	472	5	5	849.2	var1csa	RAJ116 var02	5.15E -171	var1csa	PFCLIN var76	5.15E -171	var1csa	AF5471 59	5.15E -171	var1csa	KX1548 58.1	1.85E -170	var1csa	KX1548 20.1	2.40E -169	var1csa
	28	MW01 4806	373	5	4	168.2	Group B/C	KX1549 34.1	6.08E -52	Group B/C	KX1548 61.1	4.77E -43	DC8	DD2var2 9	4.77E -43	Group B/C	IT4var4 5	7.98E -41	Group B/C	IGHvar1 3	2.89E -35	Group B/C
	29	MW01 4807	352	5	5	253.2	Group B/C	KX1548 49.1	2.21E -66	Group B/C	IT4var45	3.75E -54	Group B/C	RAJ116 var34	2.27E -46	Group B/C	HB3var 28	8.17E -46	Group B/C	DD2var1 0	3.80E -44	Group B/C

^a The number of reads within a sequence cluster

^b Only the top 5 hits from BLAST searches were considered when assigning a var type to DBL α tags

^c The number of times that the var type with the highest cumulative score was observed among the top 5 hits

^d The highest cumulative score, derived from BLAST E-values (sum of $-\log_{10}(\text{E-value})$), of the var types represented in the top 5 BLAST hits

Supplemental Table 5. *var* domain expression levels in disease groups. Related to Figure 3.

Primer	Primer subset sum	Domain cassette	Binding	UM (N = 9)	CM (N = 18)	p-value	BS (N= 16)	pvalue	Adult CM/BS (N = 12)	Pediatric CM/BS (N = 9)	pvalue
DBL β		DC5	CD31	1.4 (1, 2.3)	3.1 (1.1, 20.6)	0.223	2.4 (1, 25.4)	0.271	1.4 (1, 2.3)	22.2 (4.1, 45.5)	0.019 (*)
DBL γ		DC5	CD31	1 (1, 1)	1 (1, 4.9)	0.113	1.4 (1, 5.9)	0.075	1 (1, 2.3)	2.4 (1, 20.9)	0.176
DBLa1.5/6/8		DC16	Roset/ Unk.	12.2 (4, 29.8)	19.2 (3.8, 81.0)	0.616	39.5 (5, 93.5)	0.178	4.8 (2.14, 72.6)	39.1 (11.8, 94.3)	0.188
CIDR δ		DC16	Roset/ Unk.	2.2 (1, 7.9)	1.5 (1, 16.2)	1.000	2.3 (1, 13.7)	0.755	1.1 (1, 1.8)	5.3 (1.8, 62.7)	0.044 (*)
DBLa-CIDRa		DC8	EPCR	15.6 (8.1, 27.2)	20.1 (3, 66.9)	0.596	24.2 (4.7, 103.2)	0.461	14.5 (4.7, 52.3)	28.9 (18.7, 69.7)	0.498
CIDRa1.1		DC8	EPCR	5.4 (1, 12.1)	5.0 (1.2, 26.3)	0.612	7.6 (1, 34.7)	0.713	1.5 (1, 5.0)	29.2 (5.4, 36.8)	0.027 (*)
CIDRa1.8 (a+b)		DC8	EPCR	49.2 (12.4, 87.1)	17.6 (1.5, 53.9)	0.302	6.9 (1.1, 43.4)	0.244	3.9 (1.1, 18.1)	35.0 (2.7, 75.1)	0.154
	DC8 (CIDRa1.1/8)	DC8	EPCR	60.0 (13.4, 99.8)	36.2 (7.3, 71.7)	0.617	36.2 (4.8, 88.8)	0.759	13.8 (3.1, 38.3)	65.8 (34.1, 141.0)	0.058
DBLa2/1.1/2/4/7			EPCR	133.4 (72.9, 250.8)	218.3 (130.9, 485.8)	0.160	352.5 (81.4, 522.2)	0.192	169.4 (97.2, 204.7)	408.6 (385.1, 554.0)	0.028 (*)
DBLa1.7		DC13	EPCR	4.7 (1.7, 9.5)	10.2 (5.5, 31.7)	0.154	15.5 (8.7, 74.2)	0.029 (*)	11.6 (7.3, 36.2)	18.5 (6.3, 95.2)	0.544
CIDRa1.4/6		DC13	EPCR	1 (1, 1)	1 (1, 1)	1.000	1 (1, 1)	0.536	1 (1, 1)	1 (1, 1)	0.441
CIDRa1.5 (a+b)			EPCR	1.74 (1, 12.5)	1.7 (1, 15.2)	0.932	1.4 (1, 24.3)	0.729	1.4 (1, 5.5)	1.7 (1, 41.6)	0.511
CIDRa1.6			EPCR	1 (1, 1.8)	1 (1, 4.6)	0.781	1 (1, 2.9)	0.891	1 (1, 3.5)	1 (1, 2.9)	0.937
CIDRa1.7			EPCR	3.2 (1.1, 12.9)	14.6 (2.3, 45.6)	0.302	20.7 (3.6, 46.6)	0.208	4.3 (1.0, 14.1)	44.5 (27.8, 87.6)	0.054
	Group A (CIDRa1)		EPCR	13.1 (2.3, 64.1)	29.9 (8.5, 102.0)	0.541	40.2 (14.5, 106.0)	0.391	14.1 (1.6, 48.5)	102.5 (27.8, 130.2)	0.021 (*)
	CIDRa1 all (DC8-Group A)		EPCR	79.2 (29.0, 150.6)	60.8 (31.7, 172.9)	1.000	69.4 (34.2, 197.0)	0.834	44.1 (12.4, 72.5)	194.9 (49.6, 240.7)	0.015 (*)
DBL β (EPCR-ICAM-1)			ICAM-1	10.1 (1.9, 37.8)	48.7 (9.4, 180.2)	0.134	49.4 (19.2, 201.6)	0.086	42.3 (12.7, 107.8)	57.6 (20.8, 207.8)	0.602
DBL β 1/3-1			ICAM-1	1.8 (1, 10.2)	6.8 (1.8, 16.5)	0.245	6.8 (4.0, 21.5)	0.201	4.8 (1, 16.4)	6.9 (5.3, 16.9)	0.388
DBL β 1/3-2			ICAM-1	2.9 (2.1, 9.1)	25.9 (3.1, 68.8)	0.126	9.1 (2.5, 54.6)	0.326	9.5 (2.9, 48.2)	23.4 (3.4, 75.1)	0.803
	DBL β 1/3 all		ICAM-1	20.2 (4.5, 84.8)	111.7 (25.8, 267.1)	0.075	128.7 (23.1, 290.7)	0.066	75.5 (23.1, 159.5)	237.6 (85.7, 345.9)	0.310
DBL β 5 (Group B/ C)			ICAM-1	4.5 (1.9, 13.5)	1 (1, 3.2)	0.061	1 (1, 2.4)	0.046 (*)	1 (1, 4.4)	1 (1, 2)	1.000
DBL γ		DC6	Unk.	25.0 (1.2, 68.6)	13.8 (1, 29.4)	0.554	7.6 (1, 22.7)	0.556	2.7 (1, 16.4)	19.5 (2.3, 36.7)	0.158
DBL ζ		DC6	Unk.	1.8 (1, 28.0)	1.8 (1, 17.8)	0.792	1.9 (1, 7.4)	0.824	1.4 (1, 3.2)	2.4 (1, 19.5)	0.395
DBLa0.1			CD36	1.1 (1, 2.4)	1.7 (1, 7.1)	0.402	2.0 (1, 4.7)	0.299	1 (1, 8.4)	2 (1.3, 3.5)	0.584
DBLa0.6/9			CD36	4.86 (1, 287.1)	6.5 (2.3, 73.7)	1.000	5.0 (1, 67.5)	0.708	3.3 (1.2, 25.5)	54.1 (5.9, 96.6)	0.108
CIDRa2/3/5/6/7/9/10			CD36	49.4 (10.6, 90.5)	16.0 (4.0, 33.7)	0.261	16.0 (8.8, 52.0)	0.383	10.7 (3.7, 16.5)	21.5 (12.8, 63.3)	0.169
CIDRa2.2			CD36	1.9 (1, 4.1)	2.2 (1, 21.3)	0.567	6.3 (1, 24.1)	0.330	2.2 (1, 7.7)	13.2 (1, 24.8)	0.492
DBLa0.16		DC19	CD36	9.0 (4.8, 11.4)	7.8 (1.1, 27.3)	0.846	4.4 (1.2, 29.5)	0.444	12.1 (3.8, 25.5)	1.3 (1, 28.7)	0.318
	Group B/C		CD36	74.2 (25.5, 450.7)	69.2 (25.3, 170.7)	0.765	91.7 (24.1, 174.3)	0.697	64.4 (23.7, 128.7)	148.6 (60.7, 181.7)	0.095

Values are listed as median (25th, 75th); p-values correspond to Mann-Whitney test between groups including CM vs. UM, BS vs. UM and Adult CM vs. Pediatric

CM. Shaded rows correspond to values shown in Figure 3.