

Supplementary table 1: Baseline characteristics per participant

Anonymous ID	Analysis	IMID	Years since diagnosis	Immune suppressive medication	MTX dose (mg)	RAPID3 score	Age (years)	Gender	Comorbidity	Smoking	Interval V2pre - V2D7 (days)	Interval V2pre - V2M3-6 (days)
260	whole blood, B cell, CD4	RA	5	MTX	20	3,9	69	Female	no	no	7	111
268	whole blood, B cell, CD4	RA	3	MTX	15	6,7	68	Female	Hypertension	yes	7	111
247	whole blood, B cell, CD4	RA	7	MTX	15	3,8	66	Male	Pulmonary disease	yes	7	113
254	whole blood, B cell, CD4	RA	4	MTX	25	0,2	53	Female	no	yes	7	190
255	whole blood, B cell, CD4	RA	9	MTX	25	0,9	51	Female	no	no	7	196
257	whole blood, B cell, CD4	RA	3	MTX	20	NA	50	Female	no	no	7	111
264	whole blood, B cell, CD4	RA	10	MTX	20	0,7	52	Female	no	no	7	112
265	whole blood, B cell, CD4	RA	8	MTX	22.5	4,7	60	Female	Cardiovascular disease	no	7	185
267	whole blood, B cell, CD4	RA	13	MTX	15	1,7	58	Female	no	yes	7	109
270	whole blood, B cell, CD4	RA	7	MTX	20	3,4	34	Female	no	no	7	-
271	whole blood, B cell, CD4	RA	4	MTX	15	0,5	47	Female	no	no	7	112
272	whole blood, B cell, CD4	RA	10	MTX	15	NA	47	Female	no	no	7	-
326	whole blood, B cell, CD4	RA	26	MTX	20	1,8	56	Female	Diabetes	no	7	-
339	whole blood, B cell, CD4	RA	23	MTX	15	4,9	57	Female	no	no	7	-
253	whole blood	RA	15	MTX	20	4,5	69	Female	no	no	7	113
256	whole blood	RA	8	MTX	25	2,6	55	Female	no	no	7	113
266	whole blood	RA	15	MTX	17.5	2,1	56	Female	no	no	7	113
323	whole blood	RA	34	MTX	15	0,9	70	Male	no	no	7	-
248	CD4, B cell	PsA	13	MTX	7.5	1,6	52	Female	no	yes	7	190

324	CD4, B cell	PsA	2	MTX	15	4,7	47	Female	no	no	7	111
277	CD4, B cell	RA	15	no ISP	-	7	48	Female	no	no	7	182
290	CD4, B cell	RA	10	no ISP	-	NA	47	Female	no	no	7	189
292	CD4, B cell	RA	8	no ISP	-	0,5	57	Female	no	no	7	-
331	CD4, B cell	RA	25	no ISP	-	NA	50	Female	no	yes	8	175
420	CD4, B cell	RA	12	no ISP	-	NA	67	Female	Diabetes, hypertension, psoriasis	no	8	211
276	CD4, B cell	RA	10	no ISP	-	0,9	56	Female	no	no	13	181
454	CD4, B cell	RA	4	no ISP	-	2,1	52	Female	no	no	7	207
451	CD4, B cell	RA	9	no ISP	-	3,8	54	Female	no	no	7	179
466	CD4, B cell	RA	6	no ISP	-	NA	41	Female	no	no	12	182
467	CD4, B cell	RA	27	no ISP	-	6,4	55	Female	no	no	12	173
391	CD4, B cell	HC	-	no ISP	-	-	39	Female	no	NA	7	191
499	CD4, B cell	HC	-	no ISP	-	-	49	Female	no	NA	8	175
413	CD4, B cell	HC	-	no ISP	-	-	51	Female	no	NA	7	185
384	CD4, B cell	HC	-	no ISP	-	-	53	Female	no	NA	7	206
377	CD4, B cell	HC	-	no ISP	-	-	55	Female	no	NA	7	192
376	CD4, B cell	HC	-	no ISP	-	-	56	Male	no	NA	7	192
411	CD4, B cell	HC	-	no ISP	-	-	57	Female	no	NA	7	185
382	CD4, B cell	HC	-	no ISP	-	-	57	Female	no	NA	7	187
419	CD4, B cell	HC	-	no ISP	-	-	57	Female	no	NA	7	189
387	CD4, B cell	HC	-	no ISP	-	-	58	Male	no	NA	7	185
392	CD4, B cell	HC	-	no ISP	-	-	58	Female	no	NA	7	184
343	whole blood	HC	-	no ISP	-	-	55	Male	NA	NA	7	184
344	whole blood	HC	-	no ISP	-	-	57	Male	NA	NA	7	-
374	whole blood	HC	-	no ISP	-	-	23	Female	no	NA	7	-
385	whole blood	HC	-	no ISP	-	-	50	Female	no	NA	7	185
397	whole blood	HC	-	no ISP	-	-	46	Female	no	NA	7	187
398	whole blood	HC	-	no ISP	-	-	59	Female	no	NA	7	182
401	whole blood	HC	-	no ISP	-	-	53	Female	no	NA	7	189

402	whole blood	HC	-	no ISP	-	-	46	Female	no	NA	7	184
403	whole blood	HC	-	no ISP	-	-	48	Female	no	NA	7	-
404	whole blood	HC	-	no ISP	-	-	42	Female	no	NA	7	-
405	whole blood	HC	-	no ISP	-	-	54	Male	no	NA	7	-
407	whole blood	HC	-	no ISP	-	-	52	Female	no	NA	7	188
408	CD4, B cell	HC	-	no ISP	-	-	50	Male	no	NA	7	183
410	whole blood	HC	-	no ISP	-	-	44	Female	no	NA	7	-
412	whole blood	HC	-	no ISP	-	-	53	Female	no	NA	7	-
414	whole blood	HC	-	no ISP	-	-	50	Male	Pulmonary disease	NA	7	-
416	whole blood	HC	-	no ISP	-	-	58	Male	Hypertension	NA	7	178
417	whole blood	HC	-	no ISP	-	-	33	Female	no	NA	7	-

¹ RAPID3 scores within four months before or three months post primary vaccination were used

NA = data not available, RA = Rheumatoid Arthritis, PsA = Psoriatic Arthritis, HC = Healthy control, MTX = Methotrexate, No ISP = No systemic immunosuppressive medication