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Table SI. NF1 genetic variants and other cutaneous manifestations

Patient	Gender	Age (years)	NF1 variant (Transcript: NM_001042492.3)	Variant /ACMG Classification*	CALMs number	Mean melanin CALMs	Other cutaneous manifestations**
1	F	11	Exon30 c.4084C>T p.Arg1362*	P/ PVS1, PM2, PP5/ protein truncating	25	31,40	FR, CSN
2	M	4	Exon21 c.2729del p.Gly910fs	P/ PVS1, PM2, PP5/ protein truncating	7	55,67	FR
3	M	8,5	Exon29 c.3916C>T p.Arg1306*	P/ PVS1, PM2, PP5/ protein truncating	18	34,00	FR
4	F	16	Exon47 c.6943del p.Leu2315fs	LP/ PVS1, PM2/ protein truncating	15	32,00	FR, PN, CSN
5	M	5	Exon32 c.4183C>T p.Gln1395*	P/ PVS1, PM2, PP5/ protein truncating	12	56,27	FR
6	F	7,5	Exon31 c.4172G>C p.Arg1391Thr	LP/PM1, PP2/ non protein truncating	22	24,59	FR
7	M	2,5	Exon45 c.6792C>A p.Tyr2264*	P/ PVS1, PM2, PP5/ protein truncating	13	54,67	PN
8	M	8	Exon6 c.653dup p.Ala219fs	P/ PVS1, PM2, PP5/ protein truncating	27	24,59	FR
9	F	5	Exon38 c.5390del p.Asn1797fs	P/ PVS1, PM2, PP5/ protein truncating	11	66,67	FR, PN
10	M	13	Exon19 c.2326-3T>G	LP/ PM2, PP3, PP5/Splice- Altering (0.78)** / Protein truncating	8	79,67	FR
11	M	4	Exon24 c.3142T>C p.Trp1048Arg	LP/ PM2, PP3, PP2/ non protein truncating	20	80,24	CSN
12	F	15	Exon22 c.2858T>A p.Leu953*	P/ PVS1, PM2, PP5/ protein truncating	13	63,10	FR, PN
13	F	14	Exon10 c.1063-2A>G	P/ PVS1, PM2, PP5/ Splice- Altering (0.99)**/ Protein truncating	25	66,83	FR
14	F	12,5	Exon40 c.5902C>T p.Arg1968*	P/ PVS1, PM2, PP5/ protein truncating	6	82,97	FR
15	M	10	Exon5 c.579_581del p.Leu194del	P/ PM4/ protein truncating	9	80,50	
16	F	4	Exon4 c.350dup	P/ PVS1, PM2, PP5/	28	74,00	

			<i>p.Cys118fs</i>	<i>protein truncating</i>			
17	M	3	<i>Exon45 c.6720_6721dup</i> <i> p.Asn2241fs</i>	<i>P/ PVS1, PM2, PP5/</i> <i>protein truncating</i>	10	86,43	FR
18	M	10	<i>Exon38 c.5609G>A </i> <i>p.Arg1870Gln</i>	<i>P/ PS1, PM2, PM5, PM1,</i> <i>PP3, PP2, PP5/ non protein</i> <i>truncating</i>	35	69,40	FR
19	M	9	<i>Exon47 c.7000G>C </i> <i>p.Gly2334Arg</i>	<i>P/ PM2, PP5/ non protein</i> <i>truncating</i>	25	65,38	FR, CSN
20	F	6	<i>Exon50 c.7348C>T </i> <i>p.Arg2450*</i>	<i>P/ PVS1, PM2, PP5/</i> <i>protein truncating</i>	22	55,21	FR
21	M	1,5	<i>Exon50 c.7348C>T </i> <i>p.Arg2450*</i>	<i>P/ PVS1, PM2, PP5/</i> <i>protein truncating</i>	15	26,14	FR, PN
22	F	12	<i>Exon38 c.5489G>T </i> <i>p.Arg1830Leu</i>	<i>P/ PM1, PP2, PP5, PM2/</i> <i>non protein truncating</i>	20	84,37	FR
23	M	14	<i>Exon38 c.5489G>T </i> <i>p.Arg1830Leu</i>	<i>P/ PM1, PP2, PP5, PM2/</i> <i>non protein truncating</i>	11	78,81	
24	F	13	<i>Exon38 c.5609+1G>A</i>	<i>P/ PVS1, PM2, PP5/Splice-</i> <i>Altering (0.99)/</i> <i>Protein truncating</i>	14	76,67	FR
25	M	3	<i>Exon40 c.5858T>C </i> <i>p.Leu1953Pro</i>	<i>P/ PP3, PM2/ non protein</i> <i>truncating</i>	6	62,95	
26	M	8	<i>Exon50 c.7348C>T </i> <i>p.Arg2450*</i>	<i>P/ PVS1, PM2/ protein</i> <i>truncating</i>	15	54,00	FR,PN
27	F	16	<i>Exon5 c.501T>A </i> <i>p.Cys167*</i>	<i>P/ PVS1, PM2, PP5/ protein</i> <i>truncating</i>	13	29,03	FR
28	F	2	<i>Exon13 c.1466A>G </i> <i>p.Tyr489Cys</i>	<i>P/ PM2, PM1, PP2/ non</i> <i>protein truncating</i>	24	61,07	FR
29	F	13	<i>Exon21 c.2693T>C </i> <i>p.Leu898Pro</i>	<i>P/ PP3, PM2/ non protein</i> <i>truncating</i>	36	94,27	FR, JXG
30	M	2,5	<i>Exon46 c.6855C>A </i> <i>p.Tyr2285*</i>	<i>P/ PVS1, PM2, PP5/ protein</i> <i>truncating</i>	9	50,82	
31	M	11	<i>Exon15 </i> <i>c.1691_1692insC </i> <i>p.Ala565fs</i>	<i>P/ PVS1, PM2, PP5/ protein</i> <i>truncating</i>	18	98,00	FR, PN, NA
32	M	10	<i>Exon18 c.2248dup </i> <i>p.Thr750fs</i>	<i>P/ PVS1, PM2, PP5/ protein</i> <i>truncating</i>	11	96,52	FR,PN
33	M	4	<i>Exon38 c.5352T>G </i> <i>p.Tyr1784*</i>	<i>LP/ PVS1, PM2/ protein</i> <i>truncating</i>	18	98,07	FR,PN
34	M	6	<i>Exon32 c.4331A>G </i> <i>p.Lys1444Arg</i>	<i>P/ PM1, PP2, PM2/ non</i> <i>protein truncating</i>	13	112,09	FR

35	F	9	Exon9 c.1021_1022del p.Val341fs	P/ PVS1, PM2, PP5/ protein truncating	17	87,26	FR,PN
36	F	1,75	Exon32 c.4331A>G p.Lys1444Arg	P/ PM1, PP2, PM2/ non protein truncating	21	39,16	FR
37	M	4	Exon52 c.7739-3C>A	VUS/ PM2, PP3/ Splice- Altering (low) (0.44)/ non protein truncating	22	88,22	FR
38	F	11	Exon22 c.2970_2972del p.Met991del	P/ PM4, PM5/ protein truncating	8	133,00	
39	F	10	Exon22 c.2970_2972del p.Met991del	P/ PM4, PM5/ protein truncating	16	98,74	PN
40	F	8	Exon22 c.2970_2972del p.Met991del	P/ PM4, PM5/ protein truncating	13	106,71	JXG
41	F	16	Exon34 c.4578-9T>A	VUS/ PM2, PP3/ Splice- Altering (0.64)/ non protein truncating	13	88,00	CSN
42	M	4	Exon18 c.2033dup p.Ile679fs	P/ PVS1, PM2, PP5/ protein truncating	10	42,67	PN
43	M	16	Exon9 c.1022_1023insGA p.Ile342fs	P/ PVS1, PM2, PP5/ protein truncating	37	74,91	FR,PN,CSN
44	M	9	Exon7 c.693del p.Phe231fs	P/ PVS1, PM2, PP5/ protein truncating	16	75,23	FR
45	M	9	Exon38 c.5488C>T p.Arg1830Cys	P/ PM1, PP2, PM2/ non protein truncating	13	78,83	FR
46	F	2	Exon25 c.3198-2A>G	P/ PVS1, PM2, PP5/ Splice- Altering (0.97)/ protein truncating	28	55,43	FR
47	F	0,58	Exon17 c.1920del p.Ser641fs	P/ PVS1, PM2, PP5/ protein truncating	25	35,54	PN
48	M	11	Exon35 c.4613del p.Lys1538fs	LP/ PVS1, PM2/ protein truncating	23	43,97	FR, PN
49	F	5	Exon34 c.4432_4433insAA p.Phe1478fs	P/ PVS1, PM2, PP5/ protein truncating	35	75,76	FR
50	F	3	Exon21 c.2540T>C p.Leu847Pro	P/ PM1, PP2/ non protein truncating	23	79,20	JXG
51	M	1	Exon30 c.4084C>T p.Arg1362*	P/ PVS1, PM2, PP5/ protein truncating	25	42,76	
52	F	2,5	Exon21 c.2729del	P/ PVS1, PM2, PP5/ protein	7	35,58	

			<i>p.Gly910fs</i>	<i>truncating</i>			
53	<i>M</i>	9	<i>Exon29 c.3916C>T p.Arg1306*</i>	<i>P/ PVS1, PM2, PP5/ protein truncating</i>	18	93,63	<i>PN, CSN</i>
54	<i>M</i>	13	<i>Exon47 c.6943del p.Leu2315fs</i>	<i>LP/PVS1, PM2/ protein truncating</i>	15	52,93	
55	<i>F</i>	0,5	<i>Exon32 c.4183C>T p.Gln1395*</i>	<i>P/ PVS1, PM2, PP5/ protein truncating</i>	12	57,10	
56	<i>F</i>	11	<i>Exon32 c.4235G>C p.Arg1412Thr</i>	<i>LP/PM1, PP2/ non protein truncating</i>	22	70,71	<i>FR, PN, NA, CSN</i>
57	<i>F</i>	1,25	<i>Exon46 c.6855C>A p.Tyr2285*</i>	<i>P/ PVS1, PM2, PP5/ protein truncating</i>	13	57,28	
58	<i>M</i>	3	<i>Exon6 c.653dup p.Ala219fs</i>	<i>P/ PVS1, PM2, PP5/ protein truncating</i>	27	31,40	<i>FR</i>
59	<i>M</i>	3	<i>Exon26 c.3347_3350del p.Asp1116fs</i>	<i>P/PVS1, PM2, PP5/ protein truncating</i>			<i>FR</i>
60	<i>F</i>	5	<i>Exon 29 c.3942G>A, p.Trp1314*</i>	<i>P/PVS1, PM2, PP5/ protein truncating</i>			<i>FR</i>
61	<i>M</i>	4,5	<i>Exon3 c.288_288+2del p.Gln97fs</i>	<i>P/ PVS1, PM2, PP5/ Splice-Altering (0.98)/ protein truncating</i>			<i>JXG</i>
62	<i>M</i>	7	<i>Exon28 c.3789del p.Glu1264fs</i>	<i>P/ PVS1, PM2, PP5/ protein truncating</i>			<i>FR, CSN</i>
63	<i>F</i>	13	<i>Exon19 c.2326-3T>G </i>	<i>LP (Likely pathogenic/ PM2, PP3, PP5/ Splice-Altering (0.78)**/ Truncating mutation</i>			<i>FR</i>

Abbreviations: **F Female, M Male, CALMs Cafe-au-lait macules, FR freckling, CSN cutaneous/subcutaneous neurofibromas, PN plexiform neurofibromas, JXG juvenile xanthogranulomas, NA nevus anemicus*

** *SpliceAI uses deep neural networks to predict whether splicing events occur. The score can range from 0 to 1, when scores can be interpreted as the probability of the variant being splice-altering.*