SUPPLEMENTARY MATERIAL

Table S1: Dutch Lipid Clinic Network criteria

	Points			
Family history				
First-degree relative with premature ASCVD	1			
OR				
First-degree relative with LDL-C ≥ 210 mg/dl	1			
First-degree relative with corneal arcus and/or tendon				
xanthoma	2			
OR				
Children < 18 years with LDL-C ≥ 150 mg/dl	2			
Clinical history				
Patient with premature coronary artery disease	2			
Patient with premature cerebral or peripheral vascular	1			
disease	'			
Physical examination				
Tendon xanthoma	6			
Corneal arcus < 45 years	4			
Analytical results				
LDL-C ≥ 330 mg/dl	8			
LDL-C ≥ 250 - 329 mg/dl	5			
LDL-C ≥ 190 - 249 mg/dl	3			
LDL-C ≥ 155 - 189 mg/dl	1			
Genetic testing				
Causative mutation in the LDLR, APOB or PCSK9 genes	8			
FH definite: ≥ 8 points				
FH possible: 3-5 points Unlikely FH: ≤ 2 points				

Table S2: Causative mutations in DLCN \geq 6 group

Positive genetic study	57 (100)
• LDLR gene	53 (92.9)
• APOB gene	3 (5.3)
• APOE gene	1 (1.8)
• LDLR or APOB gene	56 (98.2)

Table S3: Genetic variants in DLCN \geq 6 group

Patient	Sex	Age	DLCN	Genetic variant	Variant classification
1	Female	35	12	LDLR c.1342C>T p.(Gln427*)	Pathogenic
2	Male	69	6	LDLR c.1342C>T p.(Gln427*)	Pathogenic
3	Female	49	10	LDLR c.1898G>A, p.(Arg612His)	Pathogenic
4	Female	56	9	LDLR c.1238C>T, p.(Thr413Met)	Likely pathogenic
5	Female	60	6	LDLR c.622G>A, p.(Glu208Lys)	Likely pathogenic
6	Male	47	9	LDLR c.126C>A, p.(Tyr42*)	Pathogenic
7	Female	34	9	LDLR c.1261A>G, p.(Ser421Gly)	Likely pathogenic
8	Male	40	11	LDLR c.1587-2A>G, p.(?)	Pathogenic
9	Male	29	9	LDLR c.676T>C, p.(Ser226Pro)	Pathogenic
10	Female	83	9	LDLR c.1054T>C, p.(Cys352Arg)	Likely pathogenic
11	Female	27	6	LDLR c.313+1G>C, p.(?)	Pathogenic
12	Female	50	9	LDLR c.313+1G>C, p.(?)	Pathogenic
13	Female	35	6	LDLR c.1775G>A, p.(Gly592Glu)	Pathogenic
14	Male	75	8	LDLR c.1925T>C, p.(Leu642Ser)	Likely pathogenic
15	Female	59	9	LDLR c.1342C>T, p.(Gln448*)	Pathogenic
16	Female	32	6	LDLR c.1342C>T, p.(Gln448*)	Pathogenic
17	Female	53	6	LDLR c.2546C>A, p.(Ser849*)	Pathogenic
18	Female	34	6	LDLR c.967G>A, p.(Gly323Ser)	Likely pathogenic
19	Female	36	9	LDLR c.47T>C, p.(Leu16Pro)	Likely pathogenic
20	Female	30	7	LDLR c.1444G>A, p.(Asp482Asn)	Likely pathogenic
21	Male	49	6	APOB c.13151T>C, p.(Leu4384Pro)	Likely pathogenic
22	Female	66	6	LDLR c.1246C>T, p.(Arg416Trp)	Pathogenic
23	Female	47	7	LDLR c.1981C>A, p.(Pro661Thr)	Likely pathogenic
24	Female	43	7	LDLR c.1981C>A, p.(Pro661Thr)	Likely pathogenic
25	Male	32	9	LDLR c.1342C>T, p.(Gln448*)	Pathogenic
26	Female	51	6	LDLR c.1054T>C, p.(Cys352Arg)	Likely pathogenic
27	Female	65	6	LDLR c.1246C>T, p.(Arg416Trp)	Pathogenic
28	Male	55	7	LDLR c.530C>T, p.(Ser177Leu),	Pathogenic
29	Male	46	7	LDLR c.2099A>G, p.(Asp700Gly)	Likely pathogenic
30	Female	48	6	LDLR c.593C>A, p.(Ser198*)	Pathogenic
31	Female	25	6	LDLR c.337G>A, p.(Glu113Lys)	Likely pathogenic
32	Female	53	7	APOE c.500_502del, p.(Leu167del)	Pathogenic
33	Male	34	11	LDLR c.1055_1060+5del, p.(?)	Pathogenic
34	Female	61	9	LDLR c.2275_2302del, p.(Thr761Lysfs*18)	Pathogenic
35	Male	32	6	LDLR c.2275_2302del, (p.(Thr761Lysfs*18)	Pathogenic
36	Male	33	6	LDLR c.1618G>A, p.(Ala540Thr)	Likely pathogenic
37	Male	41	6	LDLR c.1618G>A, p.(Ala540Thr)	Likely pathogenic

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Male	56	6	LDLR c.1216C>T, p.(Arg406Trp)	Likely pathogenic
Male	58	7	LDLR c.2099A>G, p.(Asp700Gly)	Likely pathogenic
Female	37	7	LDLR c.2099A>G, p.(Asp700Gly)	Likely pathogenic
Male	37	10	LDLR c.1342C>T, p.(Gln448*),	Pathogenic
Male	47	6	LDLR c.1216C>T, p.(Arg406Trp)	Likely pathogenic
Female	38	9	LDLR c.1434del, p.(Leu479Trpfs*28)	Pathogenic
Female	35	6	LDLR c.81C>G, p.(Cys27Trp)	Pathogenic
Female	58	6	APOB c.10580G>A, p.(Arg3527Gln)	Pathogenic
Female	53	6	APOB c.13151T>C, p.(Leu4384Pro)	Likely pathogenic
Female	31	11	LDLR c.1342C>T, p.(Gln448*)	Pathogenic
Female	57	6	LDLR c.1342C>T, p.(Gln448*)	Pathogenic
Male	56	7	LDLR c.1618G>A, p.(Ala540Thr)	Likely pathogenic
Male	37	10	LDLR c.313+1G>C	Pathogenic
Male	27	6	LDLR c.1601C>A, p.(Thr534Asn)	Likely pathogenic
Male	45	11	LDLR c.1775G>A, p.(Gly592Glu)	Pathogenic
Female	49	6	LDLR c.530C>T, p.(Ser177Leu)	Pathogenic
Female	45	9	LDLR c.2140+1G>T	Pathogenic
Male	36	13	LDLR c.1342C>T, p.(Gln448*)	Pathogenic
Female	39	9	LDLR c.313+1G>C	Pathogenic
Female	42	13	LDLR c.1061-?_1586+?del	Pathogenic
Male	46	5	LDLR c.2475C>A, p.(Asn825Lys)	Pathogenic
Female	55	4	APOB c.6639_6641del, p.(Asp2213del)	Likely pathogenic
	Male Female Male Male Female Female Female Female Female Male Male Male Male Female Female Male Male Male Female Female Female Male Male Female Female Male Male	Male 58 Female 37 Male 37 Male 47 Female 38 Female 35 Female 58 Female 53 Female 57 Male 56 Male 37 Male 27 Male 45 Female 49 Female 45 Male 36 Female 39 Female 42 Male 46	Male 58 7 Female 37 7 Male 37 10 Male 47 6 Female 38 9 Female 35 6 Female 58 6 Female 53 6 Female 53 6 Female 57 6 Male 56 7 Male 37 10 Male 37 10 Male 45 11 Female 49 6 Female 45 9 Male 36 13 Female 39 9 Female 42 13 Male 46 5	Male 58 7 LDLR c.2099A>G, p.(Asp700Gly) Female 37 7 LDLR c.2099A>G, p.(Asp700Gly) Male 37 10 LDLR c.1342C>T, p.(Gln448*), Male 47 6 LDLR c.1216C>T, p.(Arg406Trp) Female 38 9 LDLR c.1434del, p.(Leu479Trpfs*28) Female 35 6 LDLR c.81C>G, p.(Cys27Trp) Female 58 6 APOB c.10580G>A, p.(Arg3527Gln) Female 53 6 APOB c.13151T>C, p.(Leu4384Pro) Female 31 11 LDLR c.1342C>T, p.(Gln448*) Female 57 6 LDLR c.1342C>T, p.(Gln448*) Female 56 7 LDLR c.1618G>A, p.(Ala540Thr) Male 36 7 LDLR c.1610C>A, p.(Thr534Asn) Male 27 6 LDLR c.1601C>A, p.(Thr534Asn) Male 45 11 LDLR c.530C>T, p.(Ser177Leu) Female 49 6 LDLR c.530C>T, p.(Gln448*) Female 39 LDLR c.1342C>T, p.(Gln448*)