

Table S2. Details for identified apoD crosslinks in crosslinking mass spectrometry.

ID	XL Type	Experiment	Sequence (crosslinked residue in parentheses; value '0' or '1' at the end of the sequence refers to the 'light' or 'heavy' forms of the crosslinker)	pLINK Score	Calculated Mass	Experimental Mass	Delta Mass	ppm	Modification	Proteins
B1	BS3	HIC_BS3	CPNPPVQENFDVNKYLGR(14)-IKVLNQELR(2):0	1.70E-24	3395.7659	3395.7643	-0.0016	-0.47	1,C(Carbamidomethyl_C);	ApoD_human(21)-ApoD_human(55)
B1	BS3	HIC_BS3	CPNPPVQENFDVNKYLGR(14)-IKVLNQELR(2):1	5.86E-27	3407.8409	3407.8372	-0.0037	-1.08	1,C(Carbamidomethyl_C);	ApoD_human(21)-ApoD_human(55)
B1	BS3	IEX_BS3	CPNPPVQENFDVNKYLGR(14)-IKVLNQELR(2):1	1.91E-10	3407.8409	3407.8373	-0.0036	-1.05	1,C(Carbamidomethyl_C);	ApoD_human(21)-ApoD_human(55)
B2	BS3	HIC_BS3	IKVLNQELR(2)-IKVLNQELR(2):0	6.44E-06	2361.4107	2361.4128	0.0022	0.92	null	ApoD_human(55)-ApoD_human(55)
B2	BS3	HIC_BS3	IKVLNQELR(2)-IKVLNQELR(2):0	4.02E-05	2361.4107	2361.4136	0.0029	1.23	null	ApoD_human(55)-ApoD_human(55)
B2	BS3	IEX_BS3	IKVLNQELR(2)-IKVLNQELR(2):0	3.14E-06	2361.4107	2361.4103	-0.0004	-0.16	null	ApoD_human(55)-ApoD_human(55)
B2	BS3	IEX_BS3	IKVLNQELR(2)-IKVLNQELR(2):0	9.73E-06	2361.4107	2361.4064	-0.0042	-1.79	null	ApoD_human(55)-ApoD_human(55)
B2	BS3	IEX_BS3	IKVLNQELR(2)-IKVLNQELR(2):0	1.14E-05	2361.4107	2361.4103	-0.0004	-0.16	null	ApoD_human(55)-ApoD_human(55)
B2	BS3	IEX_BS3	IKVLNQELR(2)-IKVLNQELR(2):0	8.60E-05	2361.4107	2361.4108	0.0001	0.04	null	ApoD_human(55)-ApoD_human(55)
B2	BS3	IEX_BS3	IKVLNQELR(2)-IKVLNQELR(2):0	9.10E-05	2361.4107	2361.4079	-0.0028	-1.19	null	ApoD_human(55)-ApoD_human(55)
B2	BS3	IEX_BS3	IKVLNQELR(2)-IKVLNQELR(2):0	3.14E-06	2361.4107	2361.4103	-0.0004	-0.16	null	ApoD_human(55)-ApoD_human(55)
B2	BS3	HIC_BS3	IKVLNQELR(2)-IKVLNQELR(2):1	7.30E-07	2373.4857	2373.4861	0.0004	0.18	null	ApoD_human(55)-ApoD_human(55)
B2	BS3	HIC_BS3	IKVLNQELR(2)-IKVLNQELR(2):1	1.85E-05	2373.4857	2373.4861	0.0004	0.19	null	ApoD_human(55)-ApoD_human(55)
B2	BS3	IEX_BS3	IKVLNQELR(2)-IKVLNQELR(2):1	2.25E-06	2373.4857	2373.4837	-0.0020	-0.83	null	ApoD_human(55)-ApoD_human(55)
B2	BS3	IEX_BS3	IKVLNQELR(2)-IKVLNQELR(2):1	3.65E-06	2373.4857	2373.4849	-0.0008	-0.32	null	ApoD_human(55)-ApoD_human(55)
B2	BS3	IEX_BS3	IKVLNQELR(2)-IKVLNQELR(2):1	3.95E-08	2373.4857	2373.4831	-0.0026	-1.09	null	ApoD_human(55)-ApoD_human(55)
B3	BS3	HIC_BS3	KMTVTDQVNCCK(1)-KMTVTDQVNCCK(1):0	6.09E-08	2993.4329	2993.4388	0.0058	1.95	2,M(Oxidation_M);10,C(Carbamidomethyl_C);	ApoD_human(156)-ApoD_human(156)
B3	BS3	HIC_BS3	KMTVTDQVNCCK(1)-KMTVTDQVNCCK(1):1	2.98E-09	3005.5079	3005.5033	-0.0047	-1.55	2,M(Oxidation_M);10,C(Carbamidomethyl_C);	ApoD_human(156)-ApoD_human(156)
B4	BS3	HIC_BS3	KMTVTDQVNCCK(1)-NILTSNNIDVKK(11):0	1.29E-05	2931.5044	2931.5083	0.0038	1.31	2,M(Oxidation_M);10,C(Carbamidomethyl_C);	ApoD_human(156)-ApoD_human(155)

B4	BS3	HIC_BS3	KMTVTDQVNCPKLS(1)-NILTSNNIDVKK(11):0	1.50E-05	3131.6205	3131.6269	0.0064	2.03	2,M(Oxidation_M);10,C(Carbamidomethyl_C);	ApoD_human(156)-ApoD_human(155)
B4	BS3	HIC_BS3	KMTVTDQVNCPKLS(1)-NILTSNNIDVKK(11):0	1.84E-05	3131.6205	3131.6213	0.0007	0.24	2,M(Oxidation_M);10,C(Carbamidomethyl_C);	ApoD_human(156)-ApoD_human(155)
B4	BS3	HIC_BS3	KMTVTDQVNCPKLS(1)-NILTSNNIDVKK(11):0	6.63E-05	3131.6205	3131.6213	0.0007	0.24	2,M(Oxidation_M);10,C(Carbamidomethyl_C);	ApoD_human(156)-ApoD_human(155)
B4	BS3	IEX_BS3	KMTVTDQVNCPKLS(1)-NILTSNNIDVKK(11):0	3.38E-05	3131.6205	3131.6223	0.0018	0.57	2,M(Oxidation_M);10,C(Carbamidomethyl_C);	ApoD_human(156)-ApoD_human(155)
B4	BS3	IEX_BS3	KMTVTDQVNCPKLS(1)-NILTSNNIDVKK(11):0	6.84E-05	3131.6205	3131.6223	0.0018	0.57	2,M(Oxidation_M);10,C(Carbamidomethyl_C);	ApoD_human(156)-ApoD_human(155)
B4	BS3	IEX_BS3	KMTVTDQVNCPKLS(1)-NILTSNNIDVKK(11):0	7.90E-08	3131.6205	3131.6257	0.0052	1.64	2,M(Oxidation_M);10,C(Carbamidomethyl_C);	ApoD_human(156)-ApoD_human(155)
B4	BS3	IEX_BS3	KMTVTDQVNCPKLS(1)-NILTSNNIDVKK(11):0	1.78E-07	3131.6205	3131.6263	0.0058	1.84	2,M(Oxidation_M);10,C(Carbamidomethyl_C);	ApoD_human(156)-ApoD_human(155)
B5	BS3	HIC_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):0	5.49E-08	2741.4455	2741.4457	0.0002	0.08	9,C(Carbamidomethyl_C);	ApoD_human(167)-ApoD_human(55)
B5	BS3	HIC_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):0	8.55E-07	2741.4455	2741.4367	-0.0088	-3.21	9,C(Carbamidomethyl_C);	ApoD_human(167)-ApoD_human(55)
B5	BS3	HIC_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):0	4.88E-06	2757.4404	2757.4360	-0.0044	-1.60	1,M(Oxidation_M);9,C(Carbamidomethyl_C);	ApoD_human(167)-ApoD_human(55)
B5	BS3	HIC_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):0	6.78E-06	2757.4404	2757.4387	-0.0017	-0.62	1,M(Oxidation_M);9,C(Carbamidomethyl_C);	ApoD_human(167)-ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):0	1.88E-07	2741.4455	2741.4460	0.0006	0.21	9,C(Carbamidomethyl_C);	ApoD_human(167)-ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):0	4.03E-07	2741.4455	2741.4432	-0.0022	-0.82	9,C(Carbamidomethyl_C);	ApoD_human(167)-ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):0	4.72E-07	2741.4455	2741.4432	-0.0022	-0.82	9,C(Carbamidomethyl_C);	ApoD_human(167)-ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):0	1.14E-06	2741.4455	2741.4461	0.0007	0.24	9,C(Carbamidomethyl_C);	ApoD_human(167)-ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):0	1.63E-06	2741.4455	2741.4461	0.0007	0.24	9,C(Carbamidomethyl_C);	ApoD_human(167)-ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):0	1.73E-06	2741.4455	2741.4461	0.0007	0.24	9,C(Carbamidomethyl_C);	ApoD_human(167)-ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):0	1.76E-06	2741.4455	2741.4432	-0.0022	-0.82	9,C(Carbamidomethyl_C);	ApoD_human(167)-ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):0	1.96E-06	2757.4404	2757.4339	-0.0065	-2.36	1,M(Oxidation_M);9,C(Carbamidomethyl_C);	ApoD_human(167)-ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):0	2.14E-06	2741.4455	2741.4460	0.0006	0.21	9,C(Carbamidomethyl_C);	ApoD_human(167)-ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):0	5.78E-05	2741.4455	2741.4460	0.0006	0.21	9,C(Carbamidomethyl_C);	ApoD_human(167)-ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):0	6.70E-08	2757.4404	2757.4369	-0.0035	-1.28	1,M(Oxidation_M);9,C(Carbamidomethyl_C);	ApoD_human(167)-ApoD_human(55)
B5	BS3	HIC_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):1	2.67E-10	2769.5154	2769.5119	-0.0035	-1.26	1,M(Oxidation_M);9,C(Carbamidomethyl_C);	ApoD_human(167)-ApoD_human(55)
B5	BS3	HIC_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):1	8.57E-07	2753.5205	2753.5201	-0.0004	-0.14	9,C(Carbamidomethyl_C);	ApoD_human(167)-ApoD_human(55)

B5	BS3	HIC_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):1	3.06E-06	2753.5205	2753.5177	-0.0028	-1.01	9,C(Carbamidomethyl_C);	ApoD_human(167)- ApoD_human(55)
B5	BS3	HIC_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):1	5.84E-05	2769.5154	2769.5139	-0.0015	-0.55	1,M(Oxidation_M);9,C(Carbamidomethyl_C);	ApoD_human(167)- ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):1	1.81E-09	2753.5205	2753.5184	-0.0021	-0.76	9,C(Carbamidomethyl_C);	ApoD_human(167)- ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):1	2.78E-09	2753.5205	2753.5184	-0.0021	-0.76	9,C(Carbamidomethyl_C);	ApoD_human(167)- ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):1	9.17E-08	2753.5205	2753.5189	-0.0016	-0.57	9,C(Carbamidomethyl_C);	ApoD_human(167)- ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):1	1.34E-07	2753.5205	2753.5188	-0.0017	-0.60	9,C(Carbamidomethyl_C);	ApoD_human(167)- ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):1	3.39E-07	2753.5205	2753.5205	0.0000	0.00	9,C(Carbamidomethyl_C);	ApoD_human(167)- ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):1	4.10E-07	2769.5154	2769.5098	-0.0056	-2.03	1,M(Oxidation_M);9,C(Carbamidomethyl_C);	ApoD_human(167)- ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):1	1.54E-06	2753.5205	2753.5205	0.0000	0.00	9,C(Carbamidomethyl_C);	ApoD_human(167)- ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):1	1.77E-06	2753.5205	2753.5188	-0.0017	-0.60	9,C(Carbamidomethyl_C);	ApoD_human(167)- ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):1	2.53E-06	2769.5154	2769.5137	-0.0017	-0.61	1,M(Oxidation_M);9,C(Carbamidomethyl_C);	ApoD_human(167)- ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):1	8.10E-06	2769.5154	2769.5080	-0.0074	-2.67	1,M(Oxidation_M);9,C(Carbamidomethyl_C);	ApoD_human(167)- ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):1	8.96E-06	2769.5154	2769.5098	-0.0056	-2.03	1,M(Oxidation_M);9,C(Carbamidomethyl_C);	ApoD_human(167)- ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):1	1.24E-05	2753.5205	2753.5184	-0.0021	-0.76	9,C(Carbamidomethyl_C);	ApoD_human(167)- ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):1	1.76E-05	2753.5205	2753.5188	-0.0017	-0.60	9,C(Carbamidomethyl_C);	ApoD_human(167)- ApoD_human(55)
B5	BS3	IEX_BS3	MTVTDQVNCPKLS(11)-IKVLNQELR(2):1	4.55E-12	2753.5205	2753.5207	0.0002	0.08	9,C(Carbamidomethyl_C);	ApoD_human(167)- ApoD_human(55)
B6	BS3	HIC_BS3	MTVTDQVNCPKLS(11)- NILTSNNIDVKK(11):0	3.23E-05	3003.5256	3003.5267	0.0011	0.38	1,M(Oxidation_M);9,C(Carbamidomethyl_C);	ApoD_human(167)- ApoD_human(155)
B7	BS3	IEX_BS3	NILTSNNIDVKK(11)-IKVLNQELR(2):1	1.73E-07	2619.5708	2619.5656	-0.0053	-2.01	null	ApoD_human(155)- ApoD_human(55)
B7	BS3	IEX_BS3	NILTSNNIDVKK(11)-IKVLNQELR(2):1	5.15E-06	2619.5708	2619.5696	-0.0013	-0.49	null	ApoD_human(155)- ApoD_human(55)
B8	BS3	HIC_BS3	NPNLPPETVDSLKNILTSNNIDVK(13)- QAFHLGKCPNPPVQENFDVNK(7):0	1.21E-05	5210.6345	5210.6829	0.0484	9.29	32,C(Carbamidomethyl_C);	ApoD_human(144)- ApoD_human(7)
B9	BS3	IEX_BS3	NPNLPPETVDSLKNILTSNNIDVKK(13)- KMTVTDQVNCPK(1):1	4.10E-05	4348.3043	4348.2909	-0.0134	-3.08	27,M(Oxidation_M);35,C(Carbamidomethyl_C);	ApoD_human(144)- ApoD_human(156)
B10	BS3	HIC_BS3	QAFHLGKCPNPPVQENFDVNK(7)- KMTVTDQVNCPK(1):0	1.10E-08	3995.9331	3995.9032	-0.0299	-7.48	8,C(Carbamidomethyl_C);31,C(Carbamidomet hyl_C);	ApoD_human(7)- ApoD_human(156)
B10	BS3	HIC_BS3	QAFHLGKCPNPPVQENFDVNK(7)- KMTVTDQVNCPK(1):1	3.85E-10	4008.0081	4007.9833	-0.0248	-6.19	8,C(Carbamidomethyl_C);31,C(Carbamidomet hyl_C);	ApoD_human(7)- ApoD_human(156)
B10	BS3	HIC_BS3	QAFHLGKCPNPPVQENFDVNK(7)- KMTVTDQVNCPK(1):1	5.18E-05	4008.0081	4007.9737	-0.0344	-8.58	8,C(Carbamidomethyl_C);31,C(Carbamidomet hyl_C);	ApoD_human(7)- ApoD_human(156)

Z1	ZLXL	IEX_ZLXL	ADGTVNQIEGEATPVNLTEPAK(9)- IKVLNQELR(2):0	4.26E-05	3346.7732	3346.7719	-0.0013	-0.38	null	ApoD_human(71)- ApoD_human(55)
Z1	ZLXL	HIC_ZLXL	ADGTVNQIEGEATPVNLTEPAKLEVK(9)- IKVLNQELR(2):0	2.69E-06	3816.0632	3816.0425	-0.0207	-5.42	null	ApoD_human(71)- ApoD_human(55)
Z2	ZLXL	HIC_ZLXL	IKVLNQELR(2)-WYEIEK(5):0	1.08E-06	1960.0781	1960.0753	-0.0029	-1.46	null	ApoD_human(55)- ApoD_human(30)
Z2	ZLXL	IEX_ZLXL	IKVLNQELR(2)-WYEIEK(5):0	4.98E-07	1960.0781	1960.0768	-0.0014	-0.70	null	ApoD_human(55)- ApoD_human(30)
Z2	ZLXL	IEX_ZLXL	IKVLNQELR(2)-WYEIEK(5):0	1.23E-06	1960.0781	1960.0768	-0.0014	-0.70	null	ApoD_human(55)- ApoD_human(30)
Z2	ZLXL	IEX_ZLXL	IKVLNQELR(2)-WYEIEK(5):0	5.17E-06	1960.0781	1960.0759	-0.0023	-1.15	null	ApoD_human(55)- ApoD_human(30)
Z2	ZLXL	IEX_ZLXL	IKVLNQELR(2)-WYEIEK(5):0	3.65E-05	1960.0781	1960.0764	-0.0017	-0.89	null	ApoD_human(55)- ApoD_human(30)
Z3	ZLXL	HIC_ZLXL	NILTSNNIDVKK(11)-VLNQELR(5):0	1.10E-07	2210.2382	2210.2347	-0.0035	-1.59	null	ApoD_human(155)- ApoD_human(60)
Z3	ZLXL	HIC_ZLXL	NILTSNNIDVKK(11)-VLNQELR(5):0	7.33E-07	2210.2382	2210.2378	-0.0004	-0.20	null	ApoD_human(155)- ApoD_human(60)
Z3	ZLXL	HIC_ZLXL	NILTSNNIDVKK(11)-VLNQELR(5):0	8.55E-06	2210.2382	2210.2378	-0.0004	-0.20	null	ApoD_human(155)- ApoD_human(60)
Z3	ZLXL	IEX_ZLXL	NILTSNNIDVKK(11)-VLNQELR(5):0	8.50E-07	2210.2382	2210.2354	-0.0028	-1.27	null	ApoD_human(155)- ApoD_human(60)
Z3	ZLXL	IEX_ZLXL	NILTSNNIDVKK(11)-VLNQELR(5):0	1.86E-06	2210.2382	2210.2354	-0.0028	-1.27	null	ApoD_human(155)- ApoD_human(60)
Z3	ZLXL	IEX_ZLXL	NILTSNNIDVKK(11)-VLNQELR(5):0	3.48E-06	2210.2382	2210.2353	-0.0029	-1.33	null	ApoD_human(155)- ApoD_human(60)
Z3	ZLXL	IEX_ZLXL	NILTSNNIDVKK(11)-VLNQELR(5):0	8.25E-05	2210.2382	2210.2354	-0.0028	-1.27	null	ApoD_human(155)- ApoD_human(60)