

Table S1. ID numbers of human coronaviruses-derived spike epitopes containing peptide sequences common to human pentapeptides are shown in the square brackets.

Hum. Coronaviruses //	SARS-CoV-2	SARS-CoV	MERS-CoV	HCoV-HKU1	HCoV-OC43	HCoV-NL63	HCoV-229E
Autoantigens	(P0DTC2)	(P59594)	(R9UQ53)	(S5YA28)	(P36334)	(Q6Q1S2)	(P15423)
Apolipoprotein A-1, APOA1 (P02647)	SALGK [1072822]	-	-	-	-	ALEDL [1408831]	-
Apolipoprotein B-100, APOB (P04114)	LFLPF [1075065],	LFLPF [17644],	STSAT [1444838],	NLKCS [-], ESQIS [1487521], LSIQN [1646363]	KGSVL [-], LPDFK [1453628], PDFKE [2190804]	KFSRN [1676461],	IANII [1409115], KTLQE [1462583], TLQEL [1516456]
	KLNDL [1125080],	FKHLR [1433819],	LPVYD [1412709],			[1434560],	
	SSTAS [1074989],	KLNDL [1490343],	EVPQL [1420026],			PLRLT [1445436],	
	ALGKL [1472943],	ALGKL [1410251],	SAALS [1503295],			SSSGV [1509552],	
	DVDLG [9006]	DVDLG [60024]	AALSA [1643077],			LNGNT [1487254],	
			SSFYA [1444151]			KTLQE [1425152]	
Apolipoprotein C-2, APOC2 (P02655)	FLVLL [1332003]	-	-	FLVLL [-]	-	-	-
Apolipoprotein(a), LPA (P08519)	-	-	-	HRRIP* [1413521]	-	ASSSF [1388793], SSSFD [1509536], SSFDC [1677888]	-
3-hydroxy-3-methylglutaryl-coenzyme A reductase, HMGCR (P04035)	-	-	QLVNA [1471449],	SLALL [-]	-	-	-

Proprotein convertase subtilisin/kexin 9, PCSK9 (Q8NBP7)	VLLPL [1659240]	-	ALSKL [1411882] SIQSD [1448329], EDGDY [1411778], FAQSI [616139]	-	KSQLV [1406483]	-	-
Interstitial collagenase, MMP1 (P03956)	-	-	-	-	VTPLT [1465786], LQKAN [1418098]	IQAIY [1409484]	YSSFQ [1648957], IQAIY [1453784]
72 kDa type IV collagenase, MMP2 (P08253)	-	-	SDGKM [1436044]	-	-	-	VKFGS [1441631]
Matrix metalloproteinase-9, MMP9 (P14780)	-	DGKPC [47565]	-	-	VTPLT [1465786]	-	SRSEL [1654856]
Myeloblastin, PRTN3 (P24158)	DSFVI [1397510], RAAEI [52672] IVRFP [1325420], DQLTP [1318459]	RAAEI [100428]	-	-	-	-	-
Myeloperoxidase, MPO (P05164)	-	DQLTP [61516]	SNITI [1489316]	-	-	-	-
14-3-3 protein sigma, SFN (P31947)	-	-	GDYYR [1414267], SARSA [1472253]	-	-	-	-
14-3-3 protein theta, YWHAQ (P27348)	-	-	-	-	LIANA [1467322]	-	-
14-3-3 protein zeta/delta, YWHAZ	-	-	GDYYR	-	-	-	-

(P63104)			[1426529]				
Spermatogenesis-associated protein 7, SPATA7 (Q9P0W8)	SFIED [1311839]	AVDCS [41984], SFIED [48382]	SVPVS [1529471], VPVSV [1418724], VSTSI [1419853]	AVDCS [1446954]	-	-	GLNTS [1407364]
Dihydropteridine reductase, QDPR (P09417)	-	-	-	-	-	QSLAG [1500329]	-
Scavenger receptor class B member 1, SCARB1 (Q8WTV0)	GQTGK [1323249], QTGKI [1492872]	-	-	-	-	-	-
4-trimethylaminobutyraldehyde dehydrogenase, ALDH9A1 (P49189)	-	-	-	INNYYN [1453390]	LGVCV [1411412], KLKDG [1459900]	-	-
Carbonic anhydrase 1, CA1 (P00915)	-	-	SKADG [1412649]	LAVIG [1516008]	-	-	-
Tenascin, TNC (P24821)	SFSTF [1313244]	TGIGY [125586], ICHEG [1411501]	-	-	TFAV [1452544], LLSRL [1469194]	DALRL [1407187]	APEGL [1450757], GLCVD [1414355], LCVDG [1426259]

Table S2. ID numbers of human coronaviruses-derived envelope epitopes containing peptide sequences common to human pentapeptides are shown in the square brackets.

Hum. Coronaviruses // Autoantigens	SARS-CoV-2 (P0DTC2)	SARS-CoV (P59594)	MERS-CoV (R9UQ53)	HCoV-HKU1 (S5YA28)	HCoV-OC43 (P36334)	HCoV-NL63 (Q6Q1S2)	HCoV-229E (P15423)	Total
Apolipoprotein B-100, APOB (P04114)	NVSLV [1310667]	NVSLV [1406786]	-	QLYKS [-]	-	-	-	3
Proprotein convertase subtilisin/kexin 9, PCSK9 (Q8NBP7)	-	-	-	-	KPPVL [-]	-	-	1
Matrix metalloproteinase-9, MMP9 (P14780)	-	GVPDL [60827]	-	LVLVL [-]	-	-	-	2

Table S3. ID numbers of human coronaviruses-derived membrane epitopes containing peptide sequences common to human pentapeptides are shown in the square brackets.

Hum. Coronaviruses // Autoantigens	SARS-CoV- 2 (P0DTC2)	SARS-Co V (P59594)	MERS-Co V (R9UQ53)	HCoV-HKU 1 (S5YA28)	HCoV-OC4 3 (P36334)	HCoV-NL6 3 (Q6Q1S2)	HCoV-229 E (P15423)
Apolipoprotein A-1, APOA1 (P02647)	ELKKL [1313207]	-	-	TVAKV [1502673], VAKVQ [1391685]	LTHL [2190931], FTIVA [-], TVAKV [1407511]	-	-
3-hydroxy-3-methylglutaryl-coenzym e A reductase, HMGCR (P04035)	-	-	-	-	IILTI [1532763]	-	-
Proprotein convertase subtilisin/kexin 9, PCSK9 (Q8NBP7)	-	-	-	-	-	LVLAL [1474836]	LVLAL [1532454]
Interstitial collagenase, MMP1 (P03956)	-	GHSLG [1408658]	-	-	-	-	-
Tenascin, TNC (P24821)	-	-	-	-	WTADE [1456155]	-	-
Migration inhibitory factor-related protein 8, MRP-8 (P05109)	LKKLL [1313207], KKLLE [1313207]	-	-	-	-	-	-

Table S4. ID numbers of human coronaviruses-derived nucleocapsid epitopes containing peptide sequences common to human pentapeptides are shown in the square brackets.

Hum. Coronaviruses // Autoantigens	SARS-CoV- 2 (P0DTC2)	SARS-Co V (P59594)	MERS-Co V (R9UQ53)	HCoV-HKU 1 (S5YA28)	HCoV-OC4 3 (P36334)	HCoV-NL6 3 (Q6Q1S2)	HCoV-229 E (P15423)
Apolipoprotein B-100, APOB (P04114)	ALLLL [1314288], DDFSK [1330713]	ALLLL [19443]	-	LKENL [-]	-	-	AKFRE [1442974]
Apolipoprotein C-2, APOC2 (P02655)	-	-	-	-	-	-	STAAM [1407916]
3-hydroxy-3-methylglutaryl-coenzyme A reductase, HMGCR (P04035)	LALLL [34851]	LALLL [19442]	-	-	-	-	-
Interstitial collagenase, MMP1 (P03956)	KHIDA [27182]	KHIDA [31115]	-	-	-	-	-
72 kDa type IV collagenase, MMP2 (P08253)	LGTGP [151502]	LGTGP [125322]	FAPGT [1406658]	LGTGP [1438162]	LGTGP [1466882]	LGTGP* [1539105]	LGTGP [1446818], SQDDI [1423888] RGESK [1443437]
Matrix metalloproteinase-9, MMP9 (P14780)	ALLLL [1314288]	ALLLL [19443]	-	-	-	-	-
Myeloblastin, PRTN3 (P24158)	LALLL [34851]	LALLL [19442]	-	-	-	-	-
Myeloperoxidase, MPO (P05164)	-	SLPYG [4539]	-	DFTPE [1447217]	-	-	-

Salivary acidic proline-rich phosphoprotein 2, PRH2 (P02810)	GQQQQ [58102], QQQQG [52129]	GQQQQ [2126404], QQQQG [2126404]	-	-	-	-	-
Microfibril-associated glycoprotein 3, MFAP3 (P55082)	-	-	-	-	LELAK [1408115], ELAKV [1457957]	-	-
Tenascin, TNC (P24821)	-	-	-	-	-	-	SGNTV [1504345]