**Spike protein**

|  |  |  |
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| ***Human Coronaviruses*** | ***Pentapeptides*** | ***IEDB ID number of epitopes*** |
| SARS-CoV-2 | NLREF | 1069822, 1070789, 1309478, 1309546, 1310403, 1331958, 1331959, 1394004, 1441544, 1541247, 1595740, 1651300, 1654067, 1661579, 1662085, 1671378, 1671745, 1673966, 1679499, 1681520, 1687827, 1868040, 2001016, 2001077, 2116258, 2135523. |
| NLNES | 44814, 531283, 534192, 1070309, 1074871, 1309518, 1310606, 1313457, 1392433, 1427817, 1430471, 1541703, 1596723, 1644713, 1652125, 1655643, 1665850, 1669702, 1671369, 1676519, 1681424, 1682664, 1690720, 1701583, 1852209, 1870810, 2001222, 2060886, 2066455, 2116215, 2116302, 2131305. |
| SARS-CoV | NLNES | 14626, 30435. |
| MERS-CoV | ALALC | - |
| LALCV | - |
| LDVLE | 1066373, 1377571, 1439102, 1454286, 1455525, 1465224, 1522199, 1646161, 1660307, 1666239, 1668010, 1688841, 1692154, 1693624. |
| TVIIS | 1406455, 1406775, 1406803, 1413604, 1444840, 1444843, 1514658, 1520139, 1521358, 1643111, 1645516, 1705615. |
| EYSLY | 1523167. |
| HCoV-HKU1 | KLSDV | 1386658, 1656594, 1656734, 1692937, 1869240. |
| IILFT | - |
| ILFTG | 1452417, 1500796, 1522272. |
| KLSDF | 1383609, 1389238, 1470241, 1645662, 1665003, 1671133, 1676586, 1678913, 1682051, 1685698, 1686025, 1705170, 1707299, 1709922, 1857699. |
| YVLPL | 1711231. |
| SDLQL | 1488956, 1502676, 1691272, 1692512. |
| DLQLG | 1419959, 1422570, 1496827, 1502676, 1651479, 1691272, 1692512. |
| HCoV-OC43 | KLSDV | 1379358, 1644325, 1651225, 1653596, 1656437, 1665919, 1671135, 1672582, 1692021, 1703812. |
| LEAEA | 1644867, 1649595, 1667204, 1673592, 1677932, 1695318. |
| GTCPA | 1422033, 1432910, 1440988, 1440989, 1441500, 1441502, 1442298, 1446885, 1451223, 1451224, 1460757. |
| DLQLG | 1422567, 1422568, 1431978, 1453638, 1453640, 1457940, 1470969, 1480420, 1483523, 1483962, 1488809, 1488810, 1488944. |
| HCoV-NL63 | YSDNG | - |
| TIVGA | 1327764, 1532204. |
| IVGAL | 1327764, 1532204. |
| GRSAL | 1356376, 1387943, 1408831, 1475539, 1498039, 1500332, 1508514, 1644132, 1662593, 1665416, 1688853, 1690343, 1691377, 1695299, 1695700, 2135545. |
| LSNAS | 1434560, 1507536, 1517387, 1658775, 1677888, 1695350. |
| VTRTF | 1690659. |
| FVDVL | 1643721, 1646431. |
| HCoV-229E | TLANV | 1436781, 1651121, 1654821, 1658981, 1670628, 1680021, 1692798. |
| LANVS | 1436781, 1651121, 1654821, 1658981, 1670628, 1680021. |
| TFIVL | 1513851, 1531435, 1697811. |
| SYDSV | 1414050, 1485055, 1485056, 1489640, 1489641, 1494362, 1499322, 1529514, 1665565, 1688643, 1693639. |

**Membrane protein**

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| ***Human Coronaviruses*** | ***Pentapeptides*** | ***IEDB ID number of epitopes*** |
| SARS-CoV-2 | TVEEL | 1074992, 1087356, 1309525, 1310463, 1313131, 1313207, 1322363, 1377372, 1379097, 1381852, 1383101, 1385328, 1385329, 1385936, 1388813, 1389636, 1390075, 1475504, 1475505, 1539965, 1542794, 1597701, 1870085, 1873077, 2001310. |
| SARS-CoV | TVEEL | 41014, 1385327, 1651739, 1668513. |
| HCoV-HKU1 | IISIV | - |
| HCoV-NL63 | ILTVF | 1436547. |
| VGQLP | 1413425, 1528260. |

**Nucleoprotein**

|  |  |  |
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| ***Human Coronaviruses*** | ***Pentapeptides*** | ***IEDB ID number of epitopes*** |
| SARS-CoV-2 | YFYYL | 60242, 60243, 151502, 1074873, 1074988, 1160253, 1160254, 1163444, 1309129, 1309130. |
| LALLL | 193436, 193567, 1074903, 1309662. |
| ALLLL | 2431, 2432, 34851, 193436, 193567, 1074903, 1309662, 1310320, 1311779, 1312093, 1313206, 1314288. |
| SARS-CoV | YFYYL | 60242. |
| LALLL | 19441, 19442, 19443, 1381034, 1673182. |
| ALLLL | 19441, 19442, 19443, 1381034, 1673182. |
| MERS-CoV | TDAPS | 1413100, 1426525, 1427683, 1446542, 1446643, 1512921, 1707132. |
| HCoV-HKU1 | YFYYL | 38698, 1458795. |
| GKDSK | 1506795 |
| LGKDS | 1643395, 1650110. |
| HCoV-OC43 | YFYYL | 38698, 1396123. |
| PIAPG | 1407826, 1427547, 1443067, 1443228, 1445318, 1492717. |
| HCoV-NL63 | VLNAS | 1412019, 1448646, 1484609, 1484611. |
| VAAVT | 1652305, 1691274, 1692586, 1701458. |
| AAVTL | 1643204, 1652305, 1692586, 1701458. |