

# SARS-CoV-2 Spike Glycoprotein BA.2-Omicron

Cat. No.: RP30221CN

## Overview

<b>Description</b>	This pool is delivered in two sub-pools of 158 & 157 peptides derived from a peptide scan (15mers with 11 aa overlap) through Spike glycoprotein - contains mutations T19I, L24-, P25-, P26-, A27S, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K of SARS-CoV-2 (Severe Acute Respiratory Syndrome-related coronavirus 2) - (Lineage B.1.1.529 / BA.2 Omicron sub-variant).
<b>Sequence</b>	MFVFLVLLPLVSSQCVNLITRTQSYTNSFTRGVVYPDKVFRSSVLHSTQDLFLPFFSNVTWFHAIHVSG TNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLNINATNVIKVFCEFCNDPFL DVYYHKNNKSWMESEFRVYSSANNCTFEYVSQPFLMDLEGKQGNFKNREFVFNIDGYFKIYSKHT PINLGRDLPQGFSALEPLVDLPIGINITRFQTLALHRSYLTGPDSSSGWTAGAAAYVGYLQPRTFLL KYNENGTITDAVDCALDPLSETKCTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFDEVFNATR FASVYAWNRKRISNCVADYSVLYNFAPFFAFKCYGVSPTKLNLDLFCFTNVYADSFVIRGNEVSQIAPGQT GNIADYNYKLPDDFTGCVIAWNSNKLDSKVGNYLYRFLFRKSNLKPFDISTEIQAGNKPCNGV AGFNCYFPLRSYGRPTYGVGHQPYRVVLSFELLHAPATVCGPKKSTNLVKNKCVNFNGLTGTG VLTESNKKFLPFQQFGRDIADTTDAVRDPQTEILDITPCSFGGVSVITPGTNTSNQVAVLYQGVNCTE VPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEYVNNNSYECDIPIGAGICASYQTQTKSHRRARSVA SQSIIAYTMSLGAENSVAYSNNIAIPTNFTISVTTEILPVSMTKTSVDCTMYICGDSTECSNLLQYGSF CTQLKRALTGIAVEQDKNTQEVFAQVKQIYKTPPIKYFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTL ADAGFIKQYGDCLGDIAARDLICAQKFNGLTVLPPLLTDEMQYTSALLAGTITSGWTFGAGAALQIP FAMQMAYRFNGIGVTVNLYENQKLIANQFNQSAIGKIQDLSSTASALGKLQDVVNHNAQALNTLVK QLSSKFGAISSVLNDILSRDLKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRASANLAATKMSECVL GQSKRVDFCGKGYHLSFPQSAPHGVFLHVTYVPAQEKNFTTAPAICHGKAHFPREGVFSNGT HWFVTQRNFYEPQIITDNTFVSGNCDWIGIVNNTVYDPLQPELDSFKEELDQYFKNHTSPDVLGDI SGINASVNIQKEIDRLNEVAKNLNESLIDLQELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMST CCSCLKGCCSCGSCCKFDEDDSEPVKGVKLHYT

## Properties

<b>Source</b>	Severe Acute Respiratory Syndrome-related coronavirus 2 (Lineage B.1.1.529 / BA.2 Omicron sub-variant) Spike glycoprotein (covering the following mutations: T19I, L24-, P25-, P26-, A27S, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K).
<b>Gene ID</b>	S

<b>Length</b>	1270 aa
<b>Purity</b>	Crude (Major peak by ESI-MS is guaranteed to be peptide of interest - determined at 220 nm for each individual peptide).
<b>Form</b>	Lyophilized
<b>Storage</b>	Store at -20°C.
<b>Note</b>	The peptides of this product are supplied as trifluoroacetate salts.

## Sequence (one-letter-code)

Code	Sequence	Code	Sequence
peptide_1	MFVFLVLLPLVSSQC	peptide_2	LVLLPLVSSQCVNLI
peptide_3	PLVSSQCVNLITRTQ	peptide_4	SQCVNLITRTQSYTN
peptide_5	NLITRTQSYTNSFTR	peptide_6	RTQSYTNSFTRGVVY
peptide_7	YTNSFTRGVVYPDKV	peptide_8	FTRGVVYPDKVFRSS
peptide_9	VVYPDKVFRSSVLHS	peptide_10	DKVFRSSVLHSTQDL
peptide_11	RSSVLHSTQDLFLPF	peptide_12	LHSTQDLFLPFFSNV
peptide_13	QDLFLPFFSNVTWFH	peptide_14	LPFFSNVTWFHAIHV
peptide_15	SNVTWFHAIHVSGTN	peptide_16	WFHAIHVSGTNGTKR
peptide_17	IHVSGTNGTKRFDNP	peptide_18	GTNGTKRFDNPVLPF
peptide_19	TKRFDNPVLPFNDGV	peptide_20	DNPVLPFNDGVYFAS
peptide_21	LPFNDGVYFASTEKS	peptide_22	DGVYFASTEKSNIIR
peptide_23	FASTEKSNIIRGWIF	peptide_24	EKSNIIRGWIFGTTL
peptide_25	IIRGWIFGTTLDSKT	peptide_26	WIFGTTLDSKTQSLI
peptide_27	TTLDSKTQSLIIVNN	peptide_28	SKTQSLIIVNNATNV
peptide_29	SLLIIVNNATNVVIKV	peptide_30	VNNATNVVIKVCEFQ
peptide_31	TNVIKVCEFQFCND	peptide_32	IKVCEFQFCNDPFLD
peptide_33	EFQFCNDPFLDVYYH	peptide_34	CNDPFLDVYYHKNNK
peptide_35	FLDVYYHKNNKSWME	peptide_36	YYHKNNKSWMESEFR
peptide_37	NNKSWMESEFRVYSS	peptide_38	WMESEFRVYSSANNC
peptide_39	EFRVYSSANNCTFEY	peptide_40	YSSANNCTFEYVSQP
peptide_41	NNCTFEYVSQPFLMD	peptide_42	FEYVSQPFLMDLEGK
peptide_43	SQPFLMDLEGKQGNF	peptide_44	LMDLEGKQGNFKNLR
peptide_45	EGKQGNFKNLREFVF	peptide_46	GNFKNLREFVFNID

peptide_47	NLREFVFKNIDGYFK	peptide_48	FVFKNIDGYFKIYSK
peptide_49	NIDGYFKIYSKHTPI	peptide_50	YFKIYSKHTPINLGR
peptide_51	YSKHTPINLGRDLPQ	peptide_52	TPINLGRDLPQGFSA
peptide_53	LGRDLPQGFSALEPL	peptide_54	LPQGFSALEPLVDLP
peptide_55	FSALEPLVDLPIGIN	peptide_56	EPLVDLPIGINITRF
peptide_57	DLPIGINITRFQTL	peptide_58	GINITRFQTLALHR
peptide_59	TRFQTLALHRSYLT	peptide_60	TLLALHRSYLTGDS
peptide_61	LHRSYLTGDSSSGW	peptide_62	YLTPGDSSSGWTAGA
peptide_63	GDSSSGWTAGAAAYY	peptide_64	SGWTAGAAAYVGYL
peptide_65	AGAAAYVGYLQPR	peptide_66	AYVGYLQPRFLLK
peptide_67	GYLQPRFLLKYNEN	peptide_68	PRTFLLKYNENGTIT
peptide_69	LLKYNENGTITDAVD	peptide_70	NENGTITDAVDCALD
peptide_71	TITDAVDCALDPLSE	peptide_72	AVDCALDPLSETKCT
peptide_73	ALDPLSETKCTLKS	peptide_74	LSETKCTLKSFTVEK
peptide_75	KCTLKSFTVEKGIYQ	peptide_76	KSFTVEKGIYQTSNF
peptide_77	VEKGIYQTSNFRVQP	peptide_78	IYQTSNFRVQPTE
peptide_79	SNFRVQPTE	peptide_80	VQPTE
peptide_81	ESIVRFPNITNLCPF	peptide_82	RFPNITNLCPFDEVF
peptide_83	ITNLCPFDEVFNATR	peptide_84	CPFDEVFNATRFASV
peptide_85	EVFNATRFASVYAWN	peptide_86	ATRFASVYAWNKRRI
peptide_87	ASVYAWNKRKISNCV	peptide_88	AWNKRKISNCVADYS
peptide_89	KRISNCVADYSVLYN	peptide_90	NCVADYSVLYNFAPF
peptide_91	DYSVLYNFAPFFAFK	peptide_92	LYNFAPFFAFKCYGV
peptide_93	APFFAFKCYGVSP	peptide_94	AFKCYGVSP
peptide_95	YGVSP	peptide_96	PTK
peptide_97	NDLCFTNVYADSFVI	peptide_98	FTNVYADSFVIRGNE
peptide_99	YADSFVIRGNEVSQI	peptide_100	FVIRGNEVSQIAPGQ
peptide_101	GNEVSQIAPGQTGNI	peptide_102	SQIAPGQTGNIADYN
peptide_103	PGQTGNIADYNYKLP	peptide_104	GNIADYNYKLPDDFT
peptide_105	DYNYKLPDDFTGCVI	peptide_106	KLPDDFTGCVIAWNS
peptide_107	DFTGCVIAWNSNKLD	peptide_108	CVIAWNSNKLDSKVG
peptide_109	WNSNKLDSKVGGNYN	peptide_110	KLDSKVGGNYNLYR

peptide_111	KVGGNYNYLRLFRK	peptide_112	NYNYLRLFRKSNLK
peptide_113	LYRLFRKSNLKPFR	peptide_114	FRKSNLKPFRDIST
peptide_115	NLKPFRDISTEIYQ	peptide_116	FERDISTEIYQAGNK
peptide_117	ISTEIYQAGNKPCNG	peptide_118	IYQAGNKPCNGVAGF
peptide_119	GNKPCNGVAGFNCYF	peptide_120	CNGVAGFNCYFPLRS
peptide_121	AGFNCYFPLRSYGFR	peptide_122	CYFPLRSYGFRPTYG
peptide_123	LRSYGFRPTYGVGHQ	peptide_124	GFRPTYGVGHQPYRV
peptide_125	TYGVGHQPYRVVLS	peptide_126	GHQPYRVVLSFELL
peptide_127	YRVVLSFELLHAPA	peptide_128	VLSFELLHAPATVCG
peptide_129	ELLHAPATVCGPKKS	peptide_130	APATVCGPKKSTNLV
peptide_131	VCGPKKSTNLVKNKC	peptide_132	KKSTNLVKNKCVNFN
peptide_133	NLVKNKCVNFNFNGL	peptide_134	NKCVNFNFNGLTGTG
peptide_135	NFNFNGLTGTGVLTE	peptide_136	NGLTGTGVLTESNKK
peptide_137	GTGVLTESNKKFLPF	peptide_138	LTESNKKFLPFQQFG
peptide_139	NKKFLPFQQFGRDIA	peptide_140	LPFQQFGRDIADTTD
peptide_141	QFGRDIADTTDAVRD	peptide_142	DIADTTDAVRDPQTL
peptide_143	TTDAVRDPQTLTLEILD	peptide_144	VRDPQTLTLEILDITPC
peptide_145	QTLEILDITPCSFSGG	peptide_146	ILDITPCSFSGGVSVI
peptide_147	TPCSFSGGVITPGT	peptide_148	FGGVSVITPGTNTSN
peptide_149	SVITPGTNTSNQVAV	peptide_150	PGTNTSNQVAVLYQG
peptide_151	TSNQVAVLYQGVNCT	peptide_152	VAVLYQGVNCTEVPV
peptide_153	YQGVNCTEVPVAIHA	peptide_154	NCTEVPVAIHADQLT
peptide_155	VPVAIHADQLTPTWR	peptide_156	IHADQLTPTWRVYST
peptide_157	QLTPTWRVYSTGNSV	peptide_158	TWRVYSTGNSVFQTR
peptide_159	YSTGNSVFQTRAGCL	peptide_160	SNVFQTRAGCLIGAE
peptide_161	QTRAGCLIGAEYVNN	peptide_162	GCLIGAEYVNNVSYEC
peptide_163	GAEYVNNVSYECDIPI	peptide_164	VNNVSYECDIPIGAGI
peptide_165	YECDIPIGAGICASY	peptide_166	IPIGAGICASYQTQT
peptide_167	AGICASYQTQTKSHR	peptide_168	ASYQTQTKSHRRARS
peptide_169	TQTKSHRRARVASQ	peptide_170	SHRRARVASQSIIA
peptide_171	ARVASQSIIAYTMS	peptide_172	ASQSIIAYTMSLGAE
peptide_173	IIAYTMSLGAENSV	peptide_174	TMSLGAENSVAYSNN

peptide_175	GAENSVAYSNNNSIAI	peptide_176	SVAYSNNNSIAIPTNF
peptide_177	SNNSIAIPTNFTISV	peptide_178	IAIPTNFTISVTTEI
peptide_179	TNFTISVTTEILPVS	peptide_180	ISVTTEILPVSMTKT
peptide_181	TEILPVSMTKTTSVDC	peptide_182	PVSMTKTSDCTMYI
peptide_183	TKTSVDCTMYICGDS	peptide_184	VDCTMYICGDSTECS
peptide_185	MYICGDSTECSNLLL	peptide_186	GDSTECSNLLLQYGS
peptide_187	ECSNLLLQYGSFCTQ	peptide_188	LLLQYGSFCTQLKRA
peptide_189	YGSFCTQLKRALTGI	peptide_190	CTQLKRALTGIAVEQ
peptide_191	KRALTGIAVEQDKNT	peptide_192	TGIAVEQDKNTQEVF
peptide_193	VEQDKNTQEVFAQVK	peptide_194	KNTQEVFAQVKQIYK
peptide_195	EVFAQVKQIYKTPPI	peptide_196	QVKQIYKTPPIKYFG
peptide_197	IYKTPPIKYFGGFNF	peptide_198	PPIKYFGGFNFSQIL
peptide_199	YFGGFNFSQILPDPS	peptide_200	FNFSQILPDPSKPSK
peptide_201	QILPDPSKPSKRSFI	peptide_202	DPSKPSKRSFIEDLL
peptide_203	PSKRSFIEDLLFNKV	peptide_204	SFIEDLLFNKVTLAD
peptide_205	DLLFNKVTLADAGFI	peptide_206	NKVTLADAGFIKQYG
peptide_207	LADAGFIKQYGDCLG	peptide_208	GFIKQYGDCLGDIAA
peptide_209	QYGDCLGDIAARDLI	peptide_210	CLGDIAARDLICAQK
peptide_211	IAARDLICAQKFNGL	peptide_212	DLICAQKFNGLTVLP
peptide_213	AQKFNGLTVLPPLLT	peptide_214	NGLTVLPPLLTDEMI
peptide_215	VLPPLLTDEMIAQYT	peptide_216	LLTDEMIAQYTSALL
peptide_217	EMIAQYTSALLAGTI	peptide_218	QYTSALLAGTITSGW
peptide_219	ALLAGTITSGWTFGA	peptide_220	GTITSGWTFGAGAAL
peptide_221	SGWTFGAGAALQIPF	peptide_222	FGAGAALQIPFAMQM
peptide_223	AALQIPFAMQMAYRF	peptide_224	IPFAMQMAYRFNGIG
peptide_225	MQMAYRFNGIGVTQN	peptide_226	YRFNGIGVTQNVLYE
peptide_227	GIGVTQNVLYENQKL	peptide_228	TQNVLYENQKLIANQ
peptide_229	LYENQKLIANQFNSA	peptide_230	QKLIANQFNSAIGKI
peptide_231	ANQFNSAIGKIQDSL	peptide_232	NSAIGKIQDLSLSTA
peptide_233	GKIQDLSLSTASALG	peptide_234	DSLSTASALGKLQD
peptide_235	STASALGKLQDVVNH	peptide_236	ALGKLQDVVNHNAQA
peptide_237	LQDVVNHNAQALNTL	peptide_238	VNHNAQALNTLVKQL

peptide_239	AQALNTLVKQLSSKF	peptide_240	NTLVKQLSSKFGAIS
peptide_241	KQLSSKFGAISSVLN	peptide_242	SKFGAISSVLNDILS
peptide_243	AISSVLNDILSRLDK	peptide_244	VLNDILSRLDKVEAE
peptide_245	ILSRLDKVEAEVQID	peptide_246	LDKVEAEVQIDRLIT
peptide_247	EAEVQIDRLITGRLQ	peptide_248	QIDRLITGRLQSLQT
peptide_249	LITGRLQSLQTYVTQ	peptide_250	RLQSLQTYVTQQLIR
peptide_251	LQTYVTQQLIRAAEI	peptide_252	VTQQLIRAAEIRASA
peptide_253	LIRAAEIRASANLAA	peptide_254	AEIRASANLAATKMS
peptide_255	ASANLAATKMSECVL	peptide_256	LAATKMSECVLGQSK
peptide_257	KMSECVLGQSKRVDF	peptide_258	CVLGQSKRVDFCGKG
peptide_259	QSKRVDFCGKGYHLM	peptide_260	VDFCGKGYHLMSFPQ
peptide_261	GKGYHLMSFPQSAPH	peptide_262	HLMSFPQSAPHGVWF
peptide_263	FPQSAPHGVFLHVT	peptide_264	APHGVFLHVTYVPA
peptide_265	VVFLHVTYVPAQEKN	peptide_266	HVTYVPAQEKNFTTA
peptide_267	VPAQEKNFTTAPAIC	peptide_268	EKNFTTAPAICHDGK
peptide_269	TTAPAICHDGKAHFP	peptide_270	AICHDGKAHFPREGV
peptide_271	DGKAHFPREGVFVSN	peptide_272	HFPREGVFVSNGTHW
peptide_273	EGVFVSNGTHWFVTQ	peptide_274	VSNGTHWFVTQRNFY
peptide_275	THWFVTQRNFYEPQI	peptide_276	VTQRNFYEPQIITTD
peptide_277	NFYEPQIITTDNTFV	peptide_278	PQIITTDNTFVSGNC
peptide_279	TTDNTFVSGNCDWI	peptide_280	TFVSGNCDWIGIVN
peptide_281	GNCDDWIGIVNNTVY	peptide_282	VWIGIVNNTVYDPLQ
peptide_283	IVNNTVYDPLQPELD	peptide_284	TVYDPLQPELDSFKE
peptide_285	PLQPELDSFKEELDK	peptide_286	ELDSFKEELDKYFKN
peptide_287	FKEELDKYFKNHTSP	peptide_288	LDKYFKNHTSPDVDL
peptide_289	FKNHTSPDVLGDIS	peptide_290	TSPDVLGDISGINA
peptide_291	VDLGDISGINASVWN	peptide_292	DISGINASVVNIQKE
peptide_293	INASVVNIQKEIDRL	peptide_294	VVNIQKEIDRLNEVA
peptide_295	QKEIDRLNEVAKNLN	peptide_296	DRLNEVAKNLNESLI
peptide_297	EVAKNLNESLIDLQE	peptide_298	NLNESLIDLQELGKY
peptide_299	SLIDLQELGKYEQYI	peptide_300	LQELGKYEQYIKWPW
peptide_301	GKYEQYIKWPWYIWL	peptide_302	QYIKWPWYIWLGFIA

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peptide_303	WPWYIWLGFIAGLIA	peptide_304	IWLGFIAGLIAIVMV
peptide_305	FIAGLIAIVMTIML	peptide_306	LIAIVMTIMLCCMT
peptide_307	VMVTIMLCCMTSCCS	peptide_308	IMLCCMTSCCSCLKG
peptide_309	CMTSCCSCLKGCCSC	peptide_310	CCSCLKGCCSCGSCC
peptide_311	LKGCCSCGSCCKFDE	peptide_312	CSCGSCCKFDEDDSE
peptide_313	SCCKFDEDDSEPVLK	peptide_314	FDEDDSEPVLKGVKL
peptide_315	DSEPVLKGVKLHYT		

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