

# SARS-CoV-2 Spike Glycoprotein BA.5-Omicron

Cat. No.: RP30223

## Overview

### Description

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, L24del, P25del, P26del, A27S, H69del, V70del, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, 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.5 / Omicron).

### Sequence

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MFVFLVLLPLVSSQCVNLITRTQSYTNSFTRGVVYYPDKVFRSSVLHSTQDLFLPFFSNVTWFHAISGTN
GTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSTQSLNINATNVVIVKCEFCNDPFLDV
YHKNNKSWMESEFRVYSSANNCTFEYVVSQPFLMDLEGKQGNFKNLREFVFNIDGYFKIYSKHTPI
NLGRDLPQGFSALEPLVDLPIGINITRFQTLALHRSYLTGPDSSSGWTAGAAAYVGYLQPRTFLLKY
NENGTITDAVDCALDPLSEKCTLKSTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFDEVFNATRFA
SVYAWNRKRISNCVADYSVLYNFAPFFAFKCYGVSPKLNLDLFCFTNVYADSFVIRGNEVSQIAPGQTG
NIADYNYKLPDDFTGCVIAWNSNKLDSKVGNNYRYRFLRKSNNLKPFFERDISTEIYQAGNKPCNGVA
GVNCYFPLQSYGFRPTYGVGHQPYRVVLSFELLHAPATVCGPKKSTNLVKNKCVNFNFLGTGTGV
LTESNKKFLPFQGFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITPGTNTSNQVAVLYQGVNCTEV
PVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEVNNSECDPIGAGICASYQTQTKSHRRARSVAS
QSIIAYTMSLGAENSVAYSNNIAIPTNFTISVTTEILPVSMTKTSVDCTMYICGDSTECNLLLQYGSFC
TQLKRALTGIAVEQDKNTQEVFAQVKQIYKTPPIKYFGGFNFSQILPDPSPKSKRSFIEDLLFNKVTLA
DAGFIKQYGDCLGDIARDLCAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPF
AMQMAYRFNGIGVTQNVLYENQKLIANQFNSAIGKIQDLSSTASALGKLQDVVNHNAQALNTLVKQ
LSSKFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRASANLAATKMSECVLG
QSKRVDFCGKGYHLMSPQSAHPGVFLHVTYVPAQEKNFHTTAPAICHGDKAHFPREGVFSNGTH
WFVTQRNFYEPQIITDNTFVSGNCDVIGVNNNTVYDPLQPELDSFKEELDQYFKNHTSPDVLGDIS
GINASVNIQKEIDRLNEVAKNLNESLIDLQELGKYEYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSC
CSCLKGCCSCGSCCKFDEDDSEPVLLKGVKLHYT
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## Properties

### Source

Severe Acute Respiratory Syndrome-related coronavirus 2 (Lineage B.1.1.529 / BA.5 Omicron sub-variant) Spike glycoprotein (covering the following mutations: T19I, L24del, P25del, P26del, A27S, H69del, V70del, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K).

<b>Gene ID</b>	S
<b>Length</b>	1268 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>Solubility</b>	Dissolve in a minimum amount of pure DMSO (approx. 50 µl) and dilute with PBS buffer to the final concentration. Please note that the final concentration of DMSO must be below 1 % (v/v) to avoid toxicity in the biological system.
<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	LPFFSNVTWFHAISG
peptide_15	SNVTWFHAISGTNGT	peptide_16	WFHAISGTNGTKRFD
peptide_17	ISGTNGTKRFDNPVL	peptide_18	NGTKRFDNPVLPFND
peptide_19	RFDNPVLPFNDGVYF	peptide_20	PVLPFNDGVYFASTE
peptide_21	FNDGVYFASTEKSNI	peptide_22	VYFASTEKSNIIRGW
peptide_23	STEKSNIIRGWIFGT	peptide_24	SNIIRGWIFGTTLDS
peptide_25	RGWIFGTTLDSKTQS	peptide_26	FGTTLDSKTQSLIV
peptide_27	LDSKTQSLIVNNAT	peptide_28	TQSLIVNNATNVVI
peptide_29	LIVNNATNVVIKVCE	peptide_30	NATNVVIKVFCEQFC
peptide_31	VVIKVFCEQFCNDPF	peptide_32	VCEQFCNDPFLDVY
peptide_33	QFCNDPFLDVYHKN	peptide_34	DPFLDVYHKNKSW
peptide_35	DVYHKNKSWMESE	peptide_36	HKNNKSWMESEFRVY
peptide_37	KSWMESEFRVYSSAN	peptide_38	ESEFRVYSSANNCTF

peptide_39	RVYSSANNCTFEYVS	peptide_40	SANNCTFEYVSQPFL
peptide_41	CTFEYVSQPFLMDLE	peptide_42	YVSQPFLMDLEGKQG
peptide_43	PFLMDLEGKQGNFKN	peptide_44	DLEGKQGNFKNLREF
peptide_45	KQGNFKNLREFVFKN	peptide_46	FKNLREFVFKNIDGY
peptide_47	REFVFKNIDGYFKIY	peptide_48	FKNIDGYFKIYSKHT
peptide_49	DGYFKIYSKHTPINL	peptide_50	KIYSKHTPINLGRDL
peptide_51	KHTPINLGRDLPQGF	peptide_52	INLGRDLPQGFSALE
peptide_53	RDLPQGFSALEPLVD	peptide_54	QGFSALEPLVDLPIG
peptide_55	ALEPLVDLPIGINIT	peptide_56	LVDLPIGINITRFQT
peptide_57	PIGINITRFQTLAL	peptide_58	NITRFQTLALHRSY
peptide_59	FQTLALHRSYLTPG	peptide_60	LALHRSYLTPGDSSS
peptide_61	RSYLTPGDSSSGWTA	peptide_62	TPGDSSSGWTAGAAA
peptide_63	SSSGWTAGAAAYVVG	peptide_64	WTAGAAAYVGYLQP
peptide_65	AAAYVGYLQPRTFL	peptide_66	YVGYLQPRTFLLKYN
peptide_67	LQPRTFLLKYNENGT	peptide_68	TFLLKYNENGTITDA
peptide_69	KYNENGTITDAVDCA	peptide_70	NGTITDAVDCALDPL
peptide_71	TDAVDCALDPLSETK	peptide_72	DCALDPLSETKCTLK
peptide_73	DPLSETKCTLKSFTV	peptide_74	ETKCTLKSFTVEKGI
peptide_75	TLKSFTVEKGIYQTS	peptide_76	FTVEKGIYQTSNFRV
peptide_77	KGIYQTSNFRVQPTE	peptide_78	QTSNFRVQPTEIVR
peptide_79	FRVQPTEIVRFPNI	peptide_80	PTESIVRFPNITNLC
peptide_81	IVRFPNITNLCPFDE	peptide_82	PNITNLCPFDEVFNA
peptide_83	NLCPFDEVFNATRFA	peptide_84	FDEVFNATRFASVYA
peptide_85	FNATRFASVYAWNRK	peptide_86	RFASVYAWNRKRISN
peptide_87	VYAWNRKRISNCVAD	peptide_88	NRKRISNCVADYSVL
peptide_89	ISNCVADYSVLYNFA	peptide_90	VADYSVLYNFAPFFA
peptide_91	SVLYNFAPFFAFKCY	peptide_92	NFAPFFAFKCYGVSP
peptide_93	FFAFKCYGVSPTKLN	peptide_94	KCYGVSPTKLNDLCF
peptide_95	VSPTKLNDLCFTNVY	peptide_96	KLNDLCFTNVYADSF
peptide_97	LCFTNVYADSFVIRG	peptide_98	NVYADSFVIRGNEVS
peptide_99	DSFVIRGNEVSQIAP	peptide_100	IRGNEVSQIAPGQTG
peptide_101	EVSQIAPGQTGNIAD	peptide_102	IAPGQTGNIADYNYK

peptide_103	QTGNIADYNYKLPDD	peptide_104	IADYNYKLPDDFTGC
peptide_105	NYKLPDDFTGCVIAW	peptide_106	PDDFTGCVIAWNSNK
peptide_107	TGCVIAWNSNKLDSK	peptide_108	IAWNSNKLDSKVGGN
peptide_109	SNKLDSKVGGNYNR	peptide_110	DSKVGGNYNRYRLF
peptide_111	GGNYNYRYLFRKSN	peptide_112	NYRYLFRKSNLKP
peptide_113	RLFRKSNLKPFERDI	peptide_114	KSNLKPFERDISTEI
peptide_115	KPFERDISTEIQAG	peptide_116	RDISTEIQAGNKPC
peptide_117	TEIQAGNKPCNGVA	peptide_118	QAGNKPCNGVAGVNC
peptide_119	KPCNGVAGVNCYFPL	peptide_120	GVAGVNCYFPLQSYG
peptide_121	VNCYFPLQSYGFRPT	peptide_122	FPLQSYGFRPTYGVG
peptide_123	SYGFRPTYGVGHQPY	peptide_124	RPTYGVGHQPYRVVV
peptide_125	GVGHQPYRVVLSFE	peptide_126	QPYRVVLSFELLHA
peptide_127	VVLSFELLHAPATV	peptide_128	SFELLHAPATVCGPK
peptide_129	LHAPATVCGPKKSTN	peptide_130	ATVCGPKKSTNLVKN
peptide_131	GPKKSTNLVKNKCVN	peptide_132	STNLVKNKCVNFN
peptide_133	VKNKCVNFNGLTG	peptide_134	CVNFNGLTGTGVL
peptide_135	NFNLGTGTGVLTESN	peptide_136	LTGTGVLTESNKKFL
peptide_137	GVLTESNKKFLPFQQ	peptide_138	ESNKKFLPFQQFGRD
peptide_139	KFLPFQQFGRDIADT	peptide_140	FQQFGRDIADTTDAV
peptide_141	GRDIADTTDAVRDPQ	peptide_142	ADTTDAVRDPQTLEI
peptide_143	DAVRDPQTLEILDIT	peptide_144	DPQTLEILDITPCSF
peptide_145	LEILDITPCSFVGV	peptide_146	DITPCSFVGVSVITP
peptide_147	CSFVGVSVITPGTNT	peptide_148	GVSVITPGTNTSNQV
peptide_149	ITPGTNTSNQVAVLY	peptide_150	TNTSNQVAVLYQGVN
peptide_151	NQVAVLYQGVNCTEV	peptide_152	VLYQGVNCTEVPVAI
peptide_153	GVNCTEVPVAIHADQ	peptide_154	TEVPVAIHADQLTPT
peptide_155	VAIHADQLTPTWRVY	peptide_156	ADQLTPTWRVYSTGS
peptide_157	TPTWRVYSTGSNVFQ	peptide_158	RVYSTGSNVFQTRAG
peptide_159	TGSNVFQTRAGCLIG	peptide_160	VFQTRAGCLIGAEYV
peptide_161	RAGCLIGAEYVNNSY	peptide_162	LIGAEYVNNSYECDI
peptide_163	EYVNNSYECDIPIGA	peptide_164	NSYECDIPIGAGICA
peptide_165	CDIPIGAGICASYQT	peptide_166	IGAGICASYQTQTKS

peptide_167	ICASYQTQTKSHRRA	peptide_168	YQTQTKSHRRARSVA
peptide_169	TKSHRRARSVASQSI	peptide_170	RRARSVASQSIIAYT
peptide_171	SVASQSIIAYTMSLG	peptide_172	QSIIAYTMSLGAENS
peptide_173	AYTMSLGAENSVAYS	peptide_174	SLGAENSVAYSNNSI
peptide_175	ENSVAYSNNSIAIPT	peptide_176	AYSNNSIAIPTNFTI
peptide_177	NSIAIPTNFTISVTT	peptide_178	IPTNFTISVTTEILP
peptide_179	FTISVTTEILPVSMT	peptide_180	VTTEILPVSMTKTSV
peptide_181	ILPVSMTKTSVDCTM	peptide_182	SMTKTSVDCTMYICG
peptide_183	TSVDCTMYICGDSTE	peptide_184	CTMYICGDSTECSNL
peptide_185	ICGDSTECSNLLLQY	peptide_186	STECSNLLLQYGSFC
peptide_187	SNLLLQYGSFCTQLK	peptide_188	LQYGSFCTQLKRALT
peptide_189	SFCTQLKRALTGIAV	peptide_190	QLKRALTGIAVEQDK
peptide_191	ALTGIAVEQDKNTQE	peptide_192	IAVEQDKNTQEVFAQ
peptide_193	QDKNTQEVFAQVKQI	peptide_194	TQEVFAQVKQIYKTP
peptide_195	FAQVKQIYKTPPIKY	peptide_196	KQIYKTPPIKYFGGF
peptide_197	KTPPIKYFGGFNFSQ	peptide_198	IKYFGGFNFSQILPD
peptide_199	GGFNFSQILPDPSKP	peptide_200	FSQILPDPSKPSKRS
peptide_201	LPDPSKPSKRSFIED	peptide_202	SKPSKRSFIEDLLFN
peptide_203	KRSFIEDLLFNKVTL	peptide_204	IEDLLFNKVTLADAG
peptide_205	LFNKVTLADAGFIKQ	peptide_206	VTLADAGFIKQYGDC
peptide_207	DAGFIKQYGDCLGDI	peptide_208	IKQYGDCLGDIAARD
peptide_209	GDCLGDIAARDLICA	peptide_210	GDIAARDLICAQKFN
peptide_211	ARDLICAQKFNGLTV	peptide_212	ICAQKFNGLTVLPPL
peptide_213	KFNGLTVLPPLTDE	peptide_214	LTVLPPLTDEMQIAQ
peptide_215	PPLLTDEMQIAYTSA	peptide_216	TDEMQIAYTSALLAG
peptide_217	IAQYTSALLAGTITS	peptide_218	TSALLAGTITSGWTF
peptide_219	LAGTITSGWTFGAGA	peptide_220	ITSGWTFGAGAALQI
peptide_221	WTFGAGAALQIPFAM	peptide_222	AGAALQIPFAMQMAY
peptide_223	LQIPFAMQMAYRFNG	peptide_224	FAMQMAYRFNGIGVT
peptide_225	MAYRFNGIGVTQNVL	peptide_226	FNGIGVTQNVLYENQ
peptide_227	GVTQNVLYENQKLI	peptide_228	NVLYENQKLIANQFN
peptide_229	ENQKLIANQFNSAIG	peptide_230	LIANQFNSAIGKIQD

peptide_231	QFNSAIGKIQDSLSS	peptide_232	AIGKIQDSLSSSTASA
peptide_233	IQDSLSSSTASALGKL	peptide_234	LSSTASALGKLQDW
peptide_235	ASALGKLQDVVNHNA	peptide_236	GKLQDVVNHNAQALN
peptide_237	DVVNHNAQALNTLVK	peptide_238	HNAQALNTLVKQLSS
peptide_239	ALNTLVKQLSSKFGA	peptide_240	LVKQLSSKFGAISSV
peptide_241	LSSKFGAISSVLNDI	peptide_242	FGAISSVLNDILSRL
peptide_243	SSVLNDILSRLDKVE	peptide_244	NDILSRLDKVEAEVQ
peptide_245	SRLDKVEAEVQIDRL	peptide_246	KVEAEVQIDRLITGR
peptide_247	EVQIDRLITGRLQSL	peptide_248	DRLITGRLQSLQTYV
peptide_249	TGRLQSLQTYVTQQL	peptide_250	QSLQTYVTQQLIRAA
peptide_251	TYVTQQLIRAAEIRA	peptide_252	QQLIRAAEIRASANL
peptide_253	RAAEIRASANLAATK	peptide_254	IRASANLAATKMSEC
peptide_255	ANLAATKMSECVLGQ	peptide_256	ATKMSECVLGQSKRV
peptide_257	SECVLGQSKRVDFCG	peptide_258	LGQSKRVDFCGKGYH
peptide_259	KRVDFCGKGYHLSMF	peptide_260	FCGKGYHLSMFPQSA
peptide_261	GYHLSMFPQSAPHGV	peptide_262	MSFPQSAPHGVVFLH
peptide_263	QSAPHGVVFLHVTVV	peptide_264	HGVVFLHVTVVPAQE
peptide_265	FLHVTVVPAQEKNFT	peptide_266	TYVPAQEKNFTTAPA
peptide_267	AQEKNFTTAPAICHD	peptide_268	NFTTAPAICHDGKAH
peptide_269	APAICHDGKAHFPRE	peptide_270	CHDGKAHFPREGVTV
peptide_271	KAHFPREGVTVSNGT	peptide_272	PREGVTVSNGTHWFV
peptide_273	VFVSNGETHWFVTQRN	peptide_274	NGTHWFVTQRNFYEP
peptide_275	WFVTQRNFYEPQIIT	peptide_276	QRNFYEPQIITDNT
peptide_277	YEPQIITDNTFVSG	peptide_278	IITDNTFVSGNCDV
peptide_279	DNTFVSGNCDWVIGI	peptide_280	VSGNCDWVIGVNT
peptide_281	CDWVIGVNTVYDP	peptide_282	IGVNTVYDPLQPE
peptide_283	NNTVYDPLQPELDSF	peptide_284	YDPLQPELDSFKEEL
peptide_285	QPELDSFKEELDKYF	peptide_286	DSFKEELDKYFKNHT
peptide_287	EELDKYFKNHTSPDV	peptide_288	KYFKNHTSPDVLGD
peptide_289	NHTSPDVLGDISGI	peptide_290	PDVLDGDISGINASV
peptide_291	LGDISGINASVWNIQ	peptide_292	SGINASVWNIQKEID
peptide_293	ASVWNIQKEIDRLNE	peptide_294	NIQKEIDRLNEVAKN

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peptide_295	EIDRLNEVAKNLNES	peptide_296	LNEVAKNLNESLIDL
peptide_297	AKNLNESLIDLQELG	peptide_298	NESLIDLQELGKYEQ
peptide_299	IDLQELGKYEQYIKW	peptide_300	ELGKYEQYIKWPWYI
peptide_301	YEQYIKWPWYIWLGF	peptide_302	IKWPWYIWLGFIAGL
peptide_303	WYIWLGFIAGLIAIV	peptide_304	LGFIAGLIAIVMTI
peptide_305	AGLIAIVMTIMLCC	peptide_306	AIVMTIMLCCMTSC
peptide_307	VTIMLCCMTSCCSCL	peptide_308	LCCMTSCCSCLKGCC
peptide_309	TSCCSCLKGCCSCGS	peptide_310	SCLKGCCSCGSCCKF
peptide_311	GCCSCGSCCKFDEDD	peptide_312	CGSCCKFDEDDSEPV
peptide_313	CKFDEDDSEPVKGV	peptide_314	EDDSEPVKGVKLHY
peptide_315	EPVLKGVKLHYT		

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