

Rev03
Update: Jun,09,2025

DATASHEET

SARS-CoV-2 Spike Glycoprotein-Omicron-90% purity

Cat. No.: RP30219

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 the entire Spike glycoprotein of SARS-CoV-2 B.1.1.529 (Severe Acute Respiratory Syndrome-related coronavirus 2, Lineage B.1.1.529, South Africa, Omicron) covering the following mutations: A67V, H69-, V70-, T95I, G142-, V143-, Y144-, Y145D, N211-, L212I, "EPE" insertion between 214R and 215D, G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H, T547K, D614G, H655Y, N679K, P681H, N764K, D796Y, N856K, Q954H, N969K, L981F.

Sequence

MFVFLVLLPLVSSQCVNLTTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFSNVTWFHVIS
GTNGTKRFDNPVLPFNDGVYFASIEKSNIIRGWIFGTTLDSTQSLIVNNATNVIKVCEFCNDPFL
LDHKNNKSWMESEFRVYSSANNCTFEYVSQPFMDLEGKQGNFKNLREFVFNIDGYFKIYSKHTPII
VREPDLPPQGSFALEPLVDLPIGINITRFQTLALHRSYLTGPDSSSGWTAGAAAYVGYLQPRFTLLK
YNENGTITDAVDCALDPLSETKCTLKSTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFDEVFNATRF
ASVYAWNRKRISNCVADYSVLYNLAPFFTFKCYGVSPSTKLNDLCFTNVYADSFVIRGDEVQRQIAPGQTG
NIADYNYKLPDDFTGCVIAWNSNKLDSKVSNGYNYLYRLFRKSNLKPFERDISTEIQAGNKPCNGVA
GFNCYFPLRSYSFRPTYGVGHQPYRVVLSFELLHAPATVCGPKKSTNLVKNKCVNFNFNGLKGTGV
LTESNKKFLPFQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITPGTNTSNQVAVLYQGVNCTEV
PVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEYVNNSECDIPIGAGICASYQTQTKSHRRARSVAS
QSIIAYTMSLGAENSVAYSNNISIAIPTNFTISVTTEILPVSMKTSTVDCTMYICGDSTECNLLLQYGSFC
TQLKRALTGIAVEQDKNTQEVFAQVKQIYKTPPIKYFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLA
DAGFIKQYGDCLGDIAARDLCAQKFKGLTVLPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFA
MQMAYRFNGIGVTQNVLYENQKLIANQFNISAIGKIQDSLSTASALGKLQDVVNHNAQALNTLVKQL
SSKFGAISSVLNDIFSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRASANLAATKMSECVLQ
SKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPAICHDGKAHFPREGVFVSNGTHW
FVTQRNFYEPQIITDNTFVSGNCDVWIGVNNNTVYDPLQPELDSFKEELDKYFKNHTSPDVLGDISGI
NASVVNIQKEIDRLNEVAKNLNESLIDLQELGKYEQYIKWPWYIWLGFIAGLIAIVMTIMLCMTSCCS
CLKGCCSCGSCCKFDEDDSEPVKGVKLHYT

Properties

Source	Severe Acute Respiratory Syndrome-related coronavirus 2 (Spike B.1.1.529) Spike glycoprotein (covering the following mutations: A67V, H69-, V70-, T95I, G142-, V143-, Y144-, Y145D, N211-, L212I, "EPE" insertion between 214R and 215D, G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H, T547K, D614G, H655Y, N679K, P681H, N764K, D796Y, N856K, Q954H, N969K, L981F).
Gene ID	S
Length	1270 aa
Purity	90% by RP-HPLC (Major peak by ESI-MS is guaranteed to be peptide of interest - determined at 220 nm for each individual peptide).
Solubility	Dissolve in a minimum amount of pure DMSO (approx. 40 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.
Form	Lyophilized
Storage	Store at -20°C.
Note	The peptides of this product are supplied as trifluoroacetate salts.

Sequence (one-letter-code)

Code	Sequence	Code	Sequence
peptide_1	MFVFLVLLPLVSSQC	peptide_2	LVLLPLVSSQCVNLT
peptide_3	PLVSSQCVNLTTTRTQ	peptide_4	SQCVNLTTRTLPPA
peptide_5	NLTTRTLPPAYTNS	peptide_6	RTLPPAYTNSFTRG
peptide_7	PPAYTNSFTRGVYYP	peptide_8	TNSFTRGVYYPDKVF
peptide_9	TRGVYYPDKVFRSSV	peptide_10	YYPDKVFRSSVLHST
peptide_11	KVFRSSVLHSTQDLF	peptide_12	SSVLHSTQDLFLPFF
peptide_13	HSTQDLFLPFFSNVT	peptide_14	DLFLPFFSNVTWFHV
peptide_15	PFFSNVTWFHVISGT	peptide_16	NVTWFHVISGTNGTK
peptide_17	FHVISGTNGTKRFDN	peptide_18	SGTNGTKRFDNPVLP
peptide_19	GTKRFDNPVLPFNDG	peptide_20	FDNPVLPFNDGVYFA
peptide_21	VLPFNDGVYFASIEK	peptide_22	NDGVYFASIEKSNII
peptide_23	YFASIEKSNIIRGWI	peptide_24	IEKSNIIRGWIFGTT
peptide_25	NIIRGWIFGTTLDSK	peptide_26	GWIFGTTLDSKTQSL
peptide_27	GTTLDSKTQSLLIVN	peptide_28	DSKTQSLLIVNNATN
peptide_29	QSLLIVNNATNVVIK	peptide_30	IVNNATNVVIKVCEF
peptide_31	ATNVVIKVCEFQFCN	peptide_32	VIKVCEFQFCNDPFL

peptide_33	CEFQFCNDPFLDHKN	peptide_34	FCNDPFLDHKNNKSW
peptide_35	PFLDHKNNKSWMESE	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	DGYFKIYSKHTPIIV	peptide_50	KIYSKHTPIIVREPE
peptide_51	KHTPIIVREPEDLPQ	peptide_52	IIVREPEDLPQGFS
peptide_53	EPEDLPQGFSALEPL	peptide_54	LPQGFSALEPLVDLP
peptide_55	FSALEPLVDLPIGIN	peptide_56	EPLVDLPIGINITRF
peptide_57	DLPIGINITRFQTLL	peptide_58	GINITRFQTLLALHR
peptide_59	TRFQTLLALHRSYLT	peptide_60	TLLALHRSYLTGDS
peptide_61	LHRSYLTGDSSSGW	peptide_62	YLTPGDSSSGWTAGA
peptide_63	GDSSSGWTAGAAAYY	peptide_64	SGWTAGAAAYYVGYL
peptide_65	AGAAAYYVGYLQPR	peptide_66	AYYVGYLQPRFLLK
peptide_67	GYLQPRFLLKYNEN	peptide_68	PRTFLLKYNENGIT
peptide_69	LLKYNENGITDAVD	peptide_70	NENGITDAVDCALD
peptide_71	TITDAVDCALDPLSE	peptide_72	AVDCALDPLSETKCT
peptide_73	ALDPLSETKCTLKSF	peptide_74	LSETKCTLKSFTEK
peptide_75	KCTLKSFTEKGIYQ	peptide_76	KSFTVEKGIYQTSNF
peptide_77	VEKGIYQTSNFRVQP	peptide_78	IYQTSNFRVQPTESI
peptide_79	SNFRVQPTESIVRFP	peptide_80	VQPTESIVRFPNITN
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	NCVADYSVLYNLAPF
peptide_91	DYSVLYNLAPFFTFK	peptide_92	LYNLAPFFTFKCYGV
peptide_93	APFFTFKCYGVSPK	peptide_94	TFKCYGVSPKLNLDL
peptide_95	YGVSPKLNLDLCFTN	peptide_96	PTKLNLDLCFTNVYAD

peptide_97	NDLCFTNVYADSFVI	peptide_98	FTNVYADSFVIRGDE
peptide_99	YADSFVIRGDEVQRQI	peptide_100	FVIRGDEVQRQIAPGQ
peptide_101	GDEVQRQIAPGQTGNI	peptide_102	RQIAPGQTGNIADYN
peptide_103	PGQTGNIADYNYKLP	peptide_104	GNIADYNYKLPDDFT
peptide_105	DYNYKLPDDFTGCVI	peptide_106	KLPDDFTGCVIAWNS
peptide_107	DFTGCVIAWNSNKL	peptide_108	CVIAWNSNKLDSKVS
peptide_109	WNSNKLDSKVSNGNYN	peptide_110	KLDSKVSNGNYNYLYR
peptide_111	KVSGNYNYLYRLFRK	peptide_112	NYNYLYRLFRKSNLK
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	AGFNCYFPLRSYSFR	peptide_122	CYFPLRSYSFRPTYG
peptide_123	LRSYSFRPTYGVGHQ	peptide_124	SFRPTYGVGHQPYRV
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	NKCVNFNFNGLKGTG
peptide_135	NFNFNGLKGTGVLTE	peptide_136	NGLKGTGVLTESNKK
peptide_137	GTGVLTESNKKFLPF	peptide_138	LTESNKKFLPFQQFG
peptide_139	NKKFLPFQQFGRDIA	peptide_140	LPFQQFGRDIADTTD
peptide_141	QFGRDIADTTDAVRD	peptide_142	DIADTTDAVRDPQTL
peptide_143	TTDAVRDPQTLEILD	peptide_144	VRDPQTLEILDITPC
peptide_145	QTLEILDITPCSFGG	peptide_146	ILDITPCSFGGVSVI
peptide_147	TPCSFGGVSVITPGT	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	QLTPTWRVYSTGSNV	peptide_158	TWRVYSTGSNVFQTR
peptide_159	YSTGSNVFQTRAGCL	peptide_160	SNVFQTRAGCLIGAE

peptide_161	QTRAGCLIGAEYVNN	peptide_162	GCLIGAEYVNNSEYEC
peptide_163	GAEYVNNSEYECDIPI	peptide_164	VNNSEYECDIPIGAGI
peptide_165	YECDIPIGAGICASY	peptide_166	IPIGAGICASYQTQT
peptide_167	AGICASYQTQTKSHR	peptide_168	ASYQTQTKSHRRARS
peptide_169	TQTKSHRRARSVASQ	peptide_170	SHRRARSVASQSIIA
peptide_171	ARSVASQSIIAYTMS	peptide_172	ASQSIIAYTMSLGAE
peptide_173	IIAYTMSLGAENSV	peptide_174	TMSLGAENSVAYSNN
peptide_175	GAENSVAYSNNISAI	peptide_176	SVAYSNNISAIPTNF
peptide_177	SNNSIAIPTNFTISV	peptide_178	IAIPTNFTISVTTEI
peptide_179	TNFTISVTTEILPVS	peptide_180	ISVTTEILPVSMTKT
peptide_181	TEILPVSMTKTSVDC	peptide_182	PVSMTKTSVDCTMYI
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	IAARDLICAQKFKGL	peptide_212	DLICAQKFKGLTVLP
peptide_213	AQKFKGLTVLPPLLT	peptide_214	KGLTVLPPLLTDEMI
peptide_215	VLPPPLLTDEMIAQYT	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	NSAIGKIQDSLSSSTA
peptide_233	GKIQDSLSSSTASALG	peptide_234	DSLSSSTASALGKLQD
peptide_235	STASALGKLQDVVNH	peptide_236	ALGKLQDVVNHNAQA
peptide_237	LQDVVNHNAQALNTL	peptide_238	VNHNAQALNTLVKQL
peptide_239	AQALNTLVKQLSSKF	peptide_240	NTLVKQLSSKFGAIS
peptide_241	KQLSSKFGAISSVLN	peptide_242	SKFGAISSVLNDIFS
peptide_243	AISSVLNDIFSRLDK	peptide_244	VLNDIFSRLDKVEAE
peptide_245	IFSRLDKVEAEVQID	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	VDFCGKGYHLMSPFQ
peptide_261	GKGYHLMSPFQSAPH	peptide_262	HLMSPFQSAPHGVWF
peptide_263	FPQSAPHGVVFLHVT	peptide_264	APHGVVFLHVTYVPA
peptide_265	VVFLHVTYVPAQEKN	peptide_266	HVTYVPAQEKNFTTA
peptide_267	VPAQEKNFTTAPAIC	peptide_268	EKNFTTAPAICHGDK
peptide_269	TTAPAICHGDKAHFP	peptide_270	AICHGDKAHFPREGV
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	TFVSGNCDWVIGIVN
peptide_281	GNCDWVIGIVNNTVY	peptide_282	VVIGIVNNTVYDPLQ
peptide_283	IVNNTVYDPLQPELD	peptide_284	TVYDPLQPELDSFKE
peptide_285	PLQPELDSFKEELDK	peptide_286	ELDSFKEELDKYFKN
peptide_287	FKEELDKYFKNHTSP	peptide_288	LDKYFKNHTSPDVL

peptide_289	FKNHTSPDVLGDIS	peptide_290	TSPDVLGDISGINA
peptide_291	VDLGDISGINASVWN	peptide_292	DISGINASVWNIQKE
peptide_293	INASVWNIQKEIDRL	peptide_294	VWNIQKEIDRLNEVA
peptide_295	QKEIDRLNEVAKNLN	peptide_296	DRLNEVAKNLNESLI
peptide_297	EVAKNLNESLIDLQE	peptide_298	NLNESLIDLQELGKY
peptide_299	SLIDLQELGKYEQYI	peptide_300	LQELGKYEQYIKWPW
peptide_301	GKYEQYIKWPWYIWL	peptide_302	QYIKWPWYIWLGFIA
peptide_303	WPWYIWLGFIAGLIA	peptide_304	IWLGFIAGLIAIVMV
peptide_305	FIAGLIAIVMVTIML	peptide_306	LIAIVMVTIMLCCMT
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		

Please note that we do not provide HPLC and MS reports for each individual peptide within our peptide library products.

Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China