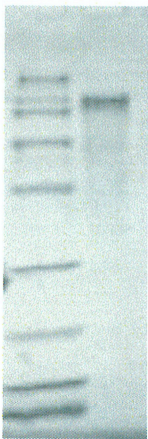


SARS-S / aa144-1242 (*E.coli*)

MGTQHTMIF	DNAFNCTFEY	ISDAFSLDVS	EKSGNFKHLR	EFVFKNKDGF	LYVYKGYQPI	60
DVVRDLPSGF	NTLKPIFKLP	LGINITNFRA	ILTAFSPAQD	IWGTSAAYF	VGYLKPTTFM	120
LKYDENGTT	DAVDCSQNPL	AELKCSVKSF	EIDKGIYQTS	NFRVVPBGDV	VRFPNITNLC	180
PFGEVFNATK	FPSVYAWERK	KISNCVADYS	VLYNSTFFST	FKCYGVSATK	LNDLCFSNVY	240
ADSFVVKGDD	VRQIAPGQTG	VIADYNYKLP	DDFMGCVLAW	NTRNIDATST	GNYNYKYRYL	300
RHGKLRPFER	DISNVPFSPD	GKPCTPPALN	CYWPLNDYGF	YTTTGIGYQP	YRVVVLSEFEL	360
LNAPATVCGP	KLSTDLIKNO	CVNFNFNGLT	GTGVLTPSSK	RFQPFQGFGR	DVSDFTDSVR	420
DPKTSEILDI	SPCSFGGVS	ITPGTNASSE	VAVLYQDVNC	TDVSTAIHAD	QLTPAWRIYS	480
TGNNVFQTA	GCLIGAEHVD	TSYECDIPIG	AGICASYHTV	SLLRSTSQKS	IVAYTMSLGA	540
DSSIAYSNTT	IAIPTNFSIS	ITTEVMPVSM	AKTSVDCNMY	ICGDSTECAN	LLLQYGSFCT	600
QLNRALSGIA	AEQDRNTREV	FAQVKQMYKT	PTLKYFGGFN	FSQILPDPLK	PTKRSFIEDL	660
LFNKVTLADA	GFMKQYGECL	GDINARDLIC	AQKFNGLTVL	PPLLTDDMIA	AYTAALVSGT	720
ATAGWTFGAG	AALQIPFAMQ	MAYRFNGIGV	TQNVLYENQK	QIANQFNKAI	SQIQESLTTT	780
STALGKLQDV	VNQNAQALNT	LVKQLSSNFG	AISSVLNDIL	SRLDKVEAEV	QIDRLITGRL	840
QSLQTYVTQQ	LIRAAEIRAS	ANLAATKMSE	CVLGQSKRVD	FCGKGYHLMS	FPQAAPHGVV	900
FLHVTVVPSQ	ERNFTTAPAI	CHEGKAYFPR	EGVVFVNGTS	WFITQRNFFS	PQIITTDNTF	960
VSGNCDVVIG	IINNTVYDPL	QPELDSFKEE	LDKYFKNHTS	PDVDLGDISG	INASVVNIQK	1020
EIDRLNEVAK	NLNESLIDLQ	ELGKYEQYIK	WPWYVWLGFI	AGLIAIVMVT	ILLCCMTSCC	1080
SCLKGACSCG	SCCKFDEDD					1099

Molecular Weight = 121 kD

Lot# 5021



MW-Marker: BioRad #161-0317

S / aa144-1242

2 μ l

rSpike / aa144-1242 SARS, lot# 5021

Concentration: ~ 2 mg/ml

Final Buffer: PBS, 0.02% SDS

73.7% identity in 1158 residues overlap; Score: 4476.0;
Gap frequency: 2.2%

```
COVID      1 MFVFLVLLPLVSSQCVNLTTRTQ--LPPAYTN--SFTRGVYYPDKVFRSSVLHSTQDLFL
SARS      1 MFIFLLFLTLTSGSDLDRCTTFDDVQAPNYTQHTSSMRGVYYPDEIFRSDTLYLTQDLFL
          ** ** * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

COVID     57 PFFSNVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQS
SARS     61 PFYSNVTGFHTINHT-----FGNPVIPFKDGIYFAATEKSNVVRGWVFGSTMNKSQS
          ** ** * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

COVID     117 LLIVNATNVVIVKVEFQFCNDPFLGVYHKNKSWMESEFRVYSSANNCTFEYVSQPFL
SARS     114 VIIINNSTNVVIRACNFELCDNPFPAV----SKPMGTQHTMIFDNAFNCTFEYISDAFS
          * ** * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

COVID     177 MDLEKQGNFKNLRVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINIT
SARS     170 LDVSEKSGNFKHLREFVFKNDGFLYVYKGYQPIDVVRDLPVSGFNTLKPFIKPLGINIT
          * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

COVID     237 RFQTLALHRSYLTGPDSSSGWTAGAAAYVGYLQPRTFLLKYNENGTITDAVDCALDPL
SARS     230 NFRAILTAF-----SPAQDIWGTSAAYFVGYLKPITFMLKYDENGITITDAVDCSQNPL
          * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

COVID     297 SETKCTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRK
SARS     284 AELKCSVKSFIEDKGIYQTSNFRVVPVSGDVVRFNITNLCPFGEVFNATKFPVYAWERK
          * ** * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

COVID     357 RISNCVADYSVLYNSASFSTFKCYGVSPTKLNDLCTNRYADSFVIRGDEVQRQIAPGQTG
SARS     344 KISNCVADYSVLYNSTFFSTFKCYGVSATKLNLDLCFSNVYADSFVVKGDDVRQIAPGQTG
          * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

COVID     417 KIADYNYKLPDDFTGCVIAWNSNLDLSDKVGNYLYRFRKSNLKPFERDISTEIQAG
SARS     404 VIADYNYKLPDDFMGCVLAWNTRNIDATSTGNVNYKYRYLRHGKLRPFERDISNVPFSPD
          * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

COVID     477 STPCNGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVLSFELLHAPATVCGPKKSTNLVKN
SARS     464 GKPCPT-PALNCYWPLNDYGFYTTTGIYQPYRVVLSFELLNAPATVCGPKLSTDLIKN
          ** * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

COVID     537 KCVNFNFNGLTGTGVLTESNKKFLPFQGFGRDIADTTDAVRDPQTEILDITPCSFGGVS
SARS     523 QCVNFNFNGLTGTGVLTPSSKRFPQFQFGRDVSDFTDSVRDPKTSEILDITPCSFGGVS
          * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

COVID     597 VITPGTINTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHV
SARS     583 VITPGTINASSEVAVLYQDVNCTDVSTAIHADQLTPAWRIYSTGNVVFQTRAGCLIGAEHV
          * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

COVID     657 NNSYECDIPIGAGICASYQTQTNPRRARSVASQSIIAYTMSLGAENSVAYSNNIAIPT
SARS     643 DTSYECDIPIGAGICASYHTVS----LLRSTSQKSIVAYTMSLGADSSIAYSNNTIAIPT
          * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

COVID     717 NFTISVTTEILPVSMTKTSVDCTMYICGDSTECANLLLOQYGSFCTQLNRALTGIAVEQDK
SARS     699 NFSISITTEVMPVSMKTSVDCNMYICGDSTECANLLLOQYGSFCTQLNRALSGIAAEQDR
          ** ** * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

COVID     777 NTQEVFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQ
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SARS 759 NTREVFQAQVKQMYKTPTLKYFGGFNFSQILPDPLKPTKRSFIEDLLFNKVTLADAGFMKQ
 ** ***** ** * ***** ** ***** **

COVID 837 YGDCLGDI AARDL ICAQKFNGLT VLPPLL TDEMIAQYTSALLAGTITSGWTFGAGAALQI
 SARS 819 YGEC LGDINARDL ICAQKFNGLT VLPPLL TDDMIAAYTAALVSGTATAGWTFGAGAALQI
 ** ***** ** * ** * ** * *****

COVID 897 PFAMQMAYRFNGIGVTQNVLYENQKLIANQFN SAIGKIQDSL S STASALGKLQDVVNQNA
 SARS 879 PFAMQMAYRFNGIGVTQNVLYENQKQIANQFNKAI SQIQESL TTTSTALGKLQDVVNQNA
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COVID 957 QALNTLVKQLSSNFGAISSVLNDILSR LDKVEAEVQIDRLITGR LQSLQTYVTQQLIRAA
 SARS 939 QALNTLVKQLSSNFGAISSVLNDILSR LDKVEAEVQIDRLITGR LQSLQTYVTQQLIRAA

COVID 1017 EIRASANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQ SAPHGVVFLHV TYVPAQEK NFT
 SARS 999 EIRASANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQA APHGVVFLHV TYVPSQERNFT
 ***** ** *

COVID 1077 TAPAI CHDGAHFPREGV FVSN GTHWFVTQRNFYEPQI ITDNTFVSGNCDV VIGIVNNT
 SARS 1059 TAPAI CHEGKAYFPREGV FVNGT SWFITQRNFFSPQI ITDNTFVSGNCDV VIGIINNT
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COVID 1137 VYDPLQPELDSFKEELDK
 SARS 1119 VYDPLQPELDSFKEELDK
