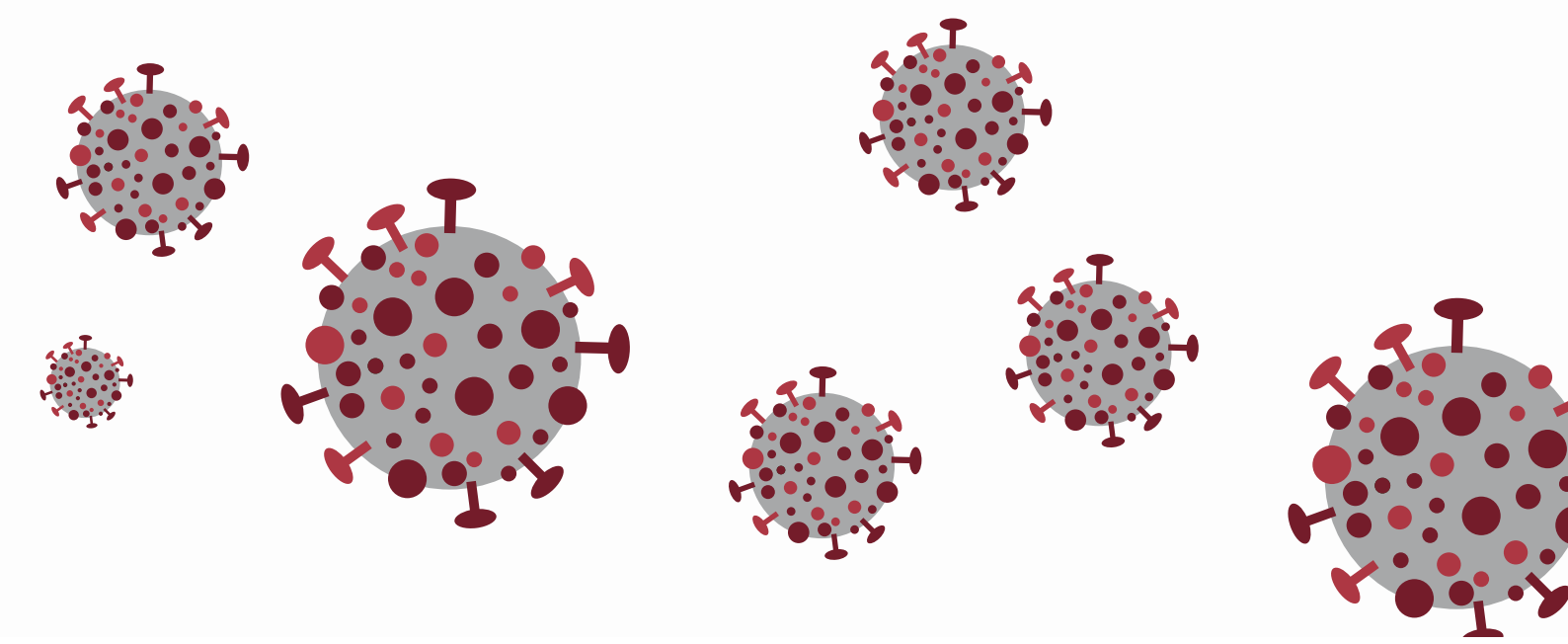


COVID-19



Research Reagents for Covid-19

PROMO CODE: MSCCOVID-19

Expiry: 30/06/2020

- Covid-19 associated recombinant proteins, antibodies and ELISAs
- qPCR assays to detect the virus
- Viral NGS kits
- T and B-cell NGS kits
- Cytokine arrays
- Drug inhibitors and ELISAs
- Antibody and Extracellular Vesicle Purification Kits

COVID-19 VIRAL RNA ISOLATION KITS



VERSATILE
variety of samples, including serum, plasma, cell culture and swab samples



EASY-TO-USE
simple column based protocol



SPEED
extraction takes as little as 20-30 minutes

Product Code	Description
611-1010SP	ExtractNow™ Virus RNA 10 rxns
611-1050SP	ExtractNow™ Virus RNA 50 rxns
611-1250SP	ExtractNow™ Virus RNA 250 rxns

ASSAYGENIE RNA EXTRACTION KITS

Product Code	Description
GN0007SP	Viral Nucleic Acid Extraction Kit 300 preps
GN0010SP	Magnetic Beads Viral DNA/RNA Extraction Kit 480 rxns

PROBE QPCR MASTERMIX VALIDATED BY WHO



EASY-TO-USE
mastermix is supplied as a pre-mix



SPEED
protocols are faster



SENSITIVE
kits are highly sensitive and can go down to as low as 1pg of total RNA



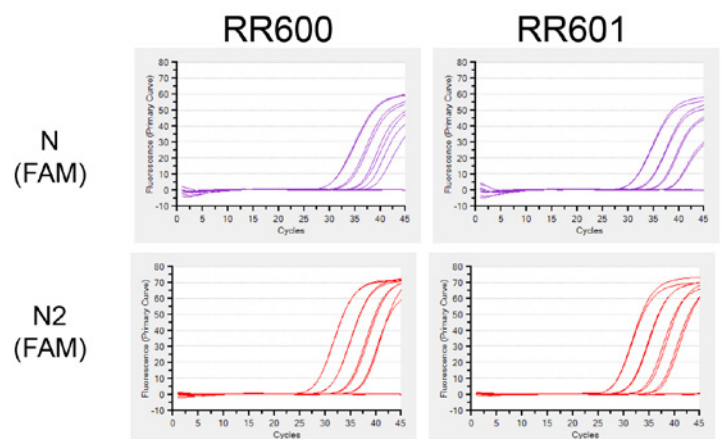
TARGETED
mastermix is resistant to RT and PCR inhibitors



Check here for protocol



Product Code	Description
RR064ASP	One Step PrimeScript™ RT-PCR Kit (Perfect Real Time), 100 rxns
RR064BSP	One Step PrimeScript™ RT-PCR Kit (Perfect Real Time), 500 rxns
RR600ASP	One Step PrimeScript III RT-qPCR Mix 200 rxns
RR601ASP	One Step PrimeScript III RT-qPCR Mix, with UNG, 200 rxns
RR650ASP	PrimeDirect™ Probe RT-qPCR Mix, 200 tests
RR651ASP	PrimeDirect™ Probe RT-qPCR Mix, with UNG, 200 tests



COVID-19 (SARS-COV-2) TRIPLEX RT-QPCR DETECTION KIT



VERSATILE
can be used with a number of real-time instruments



EASY-TO-USE
multiplex qPCR – single tube analysis



TARGETED
probes and primers are directed to ORF1ab and N gene



CONTROL
kit includes both negative, positive and extraction control



SENSITIVE
limit of detection is 200 copies/ml

Product Code	Description
VA0001	COVID-19 (SARS-CoV-2) Triplex RT-qPCR Detection Kit

VIRAL RNA SEQUENCING KITS

The SMARTer Stranded Pico V2 kit has been used to sequence the Covid-19 virus in China – Wu F. et al, Nature, 579, 265-269 (2020)



SENSITIVE
low input – as low as 250pg-10ng of total RNA



VERSATILE
RNA of any quality RIN 2-10



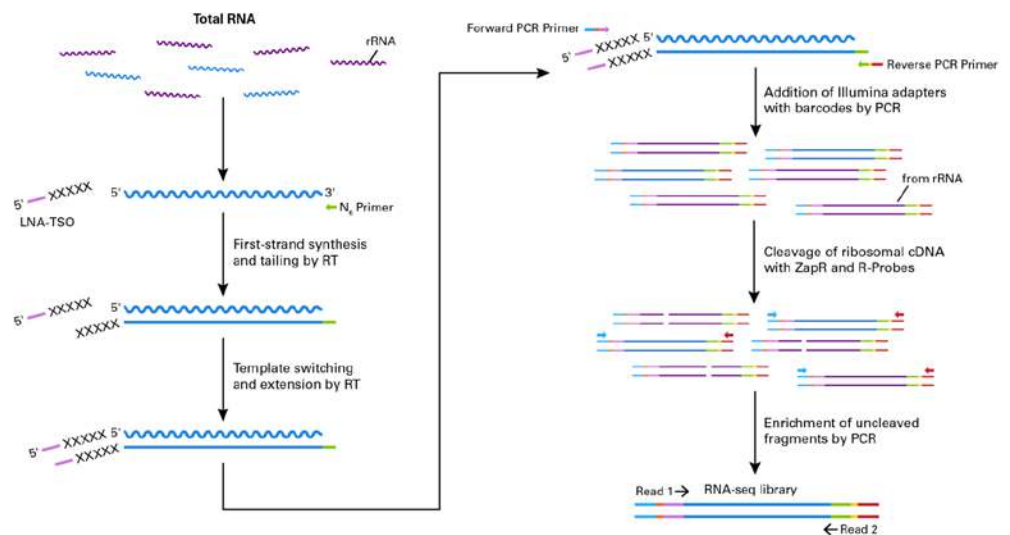
NEW TECHNOLOGY
removal of rRNA in the form of ribosomal cDNA



INFORMATIVE
strand information



VALIDATED
used to analyse Covid-19 and validated with various biofluids



Product Code	Description
634411SP	SMARTer® Stranded Total RNA-Seq Kit v2 - Pico Input Mammalian 12rxns
634412SP	SMARTer® Stranded Total RNA-Seq Kit v2 - Pico Input Mammalian 48 rxns
634413SP	SMARTer® Stranded Total RNA-Seq Kit v2 - Pico Input Mammalian 96 rxns
634414SP	SMARTer® Stranded Total RNA-Seq Kit v2 - Pico Input Mammalian 192 rxns

RECOMBINANT SARS-COV-2 ANTIGENS



APPLICATIONS

viral-cell interaction studies, positive control for experiments



FORMATS AVAILABLE

purified; un-purified; untagged; range of sizes

Nucleocapsid Protein (N-Protein)

The nucleocapsid protein (N-protein) is a structural protein that binds to the coronavirus RNA genome, thus creating a shell (or capsid) around the enclosed nucleic acid. The N-protein also 1) interacts with the viral membrane protein during viral assembly, 2) assists in RNA synthesis and folding, 3) plays a role in virus budding, and 4) affects host cell responses, including cell cycle and translation.



Figure 1. N-protein domains

RBD = RNA binding domain; IDR = intrinsically disordered region; SR = serine-arginine-rich; NLS = nuclear localization signal.

Spike Protein (S-Protein)

The spike protein (S-protein) performs two primary tasks that aid in host infection: 1) mediates the attachment between the virus and host cell surface receptors, and 2) facilitates viral entry into the host cell by assisting in the fusion of the viral and host cell membranes.



Figure 2. S-protein domains

RBD = receptor binding domain; SP = signal peptide; SR = serine-arginine-rich; TM = transmembrane domain

Product Code	Description	Tag
N Protein, Nucleocapsid		
230-01104-100SP	Recombinant SARS-CoV-2 Nucleocapsid Protein E.coli, Met1-Ala419 expression region 100 ug, purified	N-terminal His Tag
230-01104-1000SP	Recombinant SARS-CoV-2 Nucleocapsid Protein E.coli, Met1-Ala419 expression region 1000 ug, purified	N-terminal His-Tag
230-01104-500SP	Recombinant SARS-CoV-2 Nucleocapsid Protein E.coli, Met1-Ala419 expression region 500 ug, purified	N-terminal His Tag
230-20409-200SP	Recombinant SARS-CoV-2 Nucleocapsid Protein with, Transfected HEK293, Met1-Ala419, 200 ul - unpurified	C-terminal His-tag
230-30164-100SP	Recombinant SARS-CoV-2 Nucleocapsid Protein Transfected HEK293, Met1-Ala419, 100 ug, purified	C-terminal His-tag
230-30164-1000SP	Recombinant SARS-CoV-2 Nucleocapsid Protein Transfected HEK293, Met1-Ala419, 1000 ug, purified	C-terminal His-tag
230-30164-500SP	Recombinant SARS-CoV-2 Nucleocapsid Protein Transfected HEK293, Met1-Ala419, 500 ug, purified	C-terminal His-tag
08720501SP	SARS-CoV-2 Nucleocapsid Protein, His tag (E. coli) 250 ug	N- and C-terminal His Tag
08720502SP	SARS-CoV-2 Nucleocapsid Protein, His tag (E. coli) 1 mg	N- and C-terminal His Tag

Product Code	Description	Tag
N Protein, Nucleocapsid		
08720511SP	SARS-CoV-2 Nucleocapsid Protein, His tag (HEK293 cells) 25 ug	N- and C-terminal His Tag
08720512SP	SARS-CoV-2 Nucleocapsid Protein, His tag (HEK293 cells) 100 ug	N- and C-terminal His Tag
CSB-EP3325GMY-100SP	Recombinant Human Novel Coronavirus Nucleoprotein(N) E.Coli 100ug	N-terminal His-tagged
CSB-YP3325GMY-20SP	Recombinant Human Novel Coronavirus Nucleoprotein(N) Yeast 20 ug	Tag type will be determined during the manufacturing process
CSB-BP3325GMY-20SP	Recombinant Human Novel Coronavirus Nucleoprotein(N) Baculovirus 20ug	Tag type will be determined during the manufacturing process
CSB-MP3325GMY-20SP	Recombinant Human Novel Coronavirus Nucleoprotein(N) Mammalian 20ug	C-terminal mFC-tagged

*Other pack sizes available

Product Code	Description	Tag
S Protein, Spike		
230-20405-200SP	Recombinant SARS-CoV-2 S1 Subunit Protein (RBD), Transfected HEK293, Arg319-Phe541, 200 ul, unpurified	C-terminal Fc-Tag
230-20406-200SP	Recombinant SARS-CoV-2 S1 Subunit Protein (RBD), Transfected HEK293, Arg319-Phe541 200 ul, unpurified	C-terminal His Tag
230-30162-100SP	Recombinant SARS-CoV-2, S1 Subunit Protein (RBD), HEK293, Arg319-Phe541, 100 ug, purified	C-terminal His Tag
230-30162-500SP	Recombinant SARS-CoV-2, S1 Subunit Protein (RBD), HEK293, Arg319-Phe541, 500 ug, purified	C-terminal His Tag
230-30162-1000SP	Recombinant SARS-CoV-2, S1 Subunit Protein (RBD), HEK293, Arg319-Phe541, 1000 ug, purified	C-terminal His Tag
230-01102-100SP 399.00	Recombinant SARS-CoV-2 Spike Protein, S1 Subunit, Host Cell Receptor Binding Domain (RBD), E.coli, Arg319-Phe541, 100 ug, Purified	N-terminal His Tag
230-01102-1000SP	Recombinant SARS-CoV-2 Spike Protein, S1 Subunit, Host Cell Receptor Binding Domain (RBD), E.coli, Arg319-Phe541, 1000 ug, purified	N-terminal His Tag
230-01102-500SP	Recombinant SARS-CoV-2 Spike Protein, S1 Subunit, Host Cell Receptor Binding Domain (RBD), E.coli, Arg319-Phe541, 500 ug, purified	N-terminal His Tag
CARP01258SP	Recombinant 2019-nCoV Spike RBD Protein, 100µg	No Tag
230-01101-100SP	Recombinant SARS-CoV-2 Spike Protein, S1 Subunit, E.Coli, Val16-Gln690, 100 ug, purified	N-terminal His Tag
230-01101-1000SP	Recombinant SARS-CoV-2 Spike Protein, S1 Subunit, E.Coli, Val16-Gln690, 1000 ug, purified	N-terminal His Tag
230-01101-500SP	Recombinant SARS-CoV-2 Spike Protein, S1 Subunit, E.Coli, Val16-Gln690, 500 ug, purified	N-terminal His Tag
230-20407-200SP	Recombinant SARS-CoV-2 S1 Subunit Protein with C-terminal His-tag, Transfected HEK293, Val16-Gln690, 200 ul, unpurified	C-terminal His Tag
CSB-EP3324GMYSP	Recombinant Human Novel Coronavirus Spike glycoprotein(S), partial, E.coli, 16-685aa 100ug	N-terminal 10xHis-tagged and C-terminal Myc-tagged

Product Code	Description	Tag
S Protein, Spike		
CSB-YP3324GMYP	Recombinant Human Novel Coronavirus Spike glycoprotein(S), partial, Yeast, 16-685aa 100ug	Tag type will be determined during the manufacturing process
CSB-BP3324GMYP	Recombinant Human Novel Coronavirus Spike glycoprotein(S), partial, Baculovirus, 16-685aa 100ug	Tag type will be determined during the manufacturing process
CSB-MP3324GMYP	Recombinant Human Novel Coronavirus Spike glycoprotein(S), partial, Mammalian cell, 16-685aa 100ug	N-terminal 10xHis-tagged and C-terminal Flag-tagged
CSB-EP3324GMY1SP	Recombinant Human Novel Coronavirus Spike glycoprotein(S), partial, E.coli, 319-541aa 100ug	N-terminal 6xHis-tagged
CSB-YP3324GMY1SP	Recombinant Human Novel Coronavirus Spike glycoprotein(S), partial, Yeast, 319-541aa 100ug	Tag type will be determined during the manufacturing process
CSB-BP3324GMY1SP	Recombinant Human Novel Coronavirus Spike glycoprotein(S), partial, Baculovirus, 319-541aa 100ug	Tag type will be determined during the manufacturing process
CSB-MP3324GMY1SP	Recombinant Human Novel Coronavirus Spike glycoprotein(S), partial, Mammalian cell, 319-541aa 100ug	Tag type will be determined during the manufacturing process
230-30163-10SP	Recombinant SARS-CoV-2 S2 Subunit Protein (full length), HEK293, Met697-Pro1213, 10 ug, purified	C-terminal His Tag
230-01103-100SP	Recombinant SARS-CoV-2 Spike Protein, S2 Subunit, E.Coli, Met697-Pro1213, 100 ug, purified	N-terminal His Tag
230-01103-500SP	Recombinant SARS-CoV-2 Spike Protein, S2 Subunit, E.Coli, Met697-Pro1213, 500 ug, purified	N-terminal His Tag
230-01103-1000SP	Recombinant SARS-CoV-2 Spike Protein, S2 Subunit, E.Coli, Met697-Pro1213, 1000 ug, purified	N-terminal His Tag
230-20408-200SP	Recombinant SARS-CoV-2 S2 Subunit Protein with C-terminal His-tag, Transfected HEK293, Met697-Pro1213, 200 ul, unpurified	C-terminal His Tag
CARP01259SP	Recombinant 2019-nCoV Spike S1 Protein with Fc and His tag, 100µg	Fc and His Tag
CARP01261SP	Recombinant 2019-nCoV Spike S1 Protein with His tag and Avi, 100µg	His and Avi Tag
CARP01262SP	Recombinant 2019-nCoV Spike S1 Protein with His tag, 100µg	His Tag
08720421SP	SARS-CoV-2 Spike Protein (S1+S2), His tag (HEK293 cells) 25 ug	N- and C-terminal His Tag
08720422SP	SARS-CoV-2 Spike Protein (S1+S2), His tag (HEK293 cells) 100 ug	N- and C-terminal His Tag
CARP01260SP	Recombinant 2019-nCoV S1+S2 ECD (S-ECD) Protein, 100µg	No Tag

RECOMBINANT HUMAN ACE2



APPLICATIONS

viral-cell interaction studies, positive control for experiments



FORMATS AVAILABLE

purified; un-purified; untagged; range of sizes

ACE2 is an endogenous membrane protein that enables COVID-19 infection. During infection, the extracellular peptidase domain of ACE2 binds to the receptor binding domain of spike protein, which is a surface protein on SARS-CoV-2.



Figure 3. Human ACE2 domains

SP = Signal peptide; TM = transmembrane domain; ID = Intracellular domain

Product Code	Description	Tag
uman ACE2 domains		
230-20410-200SP	Recombinant Human ACE2, Transfected HEK293, Gln18-Ser740 Cell Culture Supernatant 200 ul, unpurified	C-terminal His Tag
230-30165-100SP	Recombinant Human Angiotensin-converting Enzyme 2 (ACE2), HEK293, Gln18-Ser740, 100 ug, purified	C-terminal His-Tag
230-30165-1000SP	Recombinant Human Angiotensin-converting Enzyme 2 (ACE2), HEK293, Gln18-Ser740, 1000 ug, purified	C-terminal His Tag
230-30165-500SP	Recombinant Human Angiotensin-converting Enzyme 2 (ACE2), HEK293, Gln18-Ser740, 500 ug, purified	C-terminal His-tag
CSB-MP866317HUSP	Recombinant Human Angiotensin-converting enzyme 2(ACE2), partial, Mammalian cell, 18-740aa 100ug	C-terminal hFC-tagged
CSB-AP005671HUSP	Recombinant Human Angiotensin-converting enzyme 2(ACE2),partial, Mammalian cell, 18-740aa 50ug	C-terminal 6xHis-tagged
08720601SP	ACE2, His tag (E. coli) 250 ug, Met1-Ser740	N- and C-terminal His Tag
08720602SP	ACE2, His tag (E. coli) 1 mg, Met1-Ser740	N- and C-terminal His Tag
08720611SP	ACE2, His tag (HEK293 cells) 25 ug, Met1-Ser740	N- and C-terminal His Tag
08720612SP	ACE2, His tag (HEK293 cells) 100 ug, Met1-Ser740	N- and C-terminal His Tag



APPLICATIONS
western blot, IP etc



VALIDATED
target different
envelope proteins
-Spike, N protein



VERSATILE
different sizes
available

Product Code	Description
Spike Protein Antibodies	
130-10759-100SP	Rabbit antibody against SARS-CoV-2 (COVID-19) Spike Protein S1
130-10759B-50SP	Rabbit Biotinylated antibody against SARS-CoV-2 (COVID-19) Spike Protein S1
08720301SP	MP Bio Anti-coronavirus (SARS-CoV-2) spike S1, mouse, mAb, 50 µg
130-10760B-50SP	Rabbit Biotinylated antibody against SARS-CoV-2 (COVID-19) Nucleocapsid Protein, 50 µg
130-10761-100SP	Rabbit antibody against SARS-CoV-2 (COVID-19) Spike Protein Subunit 2 (S2) Protein
130-10761B-50SP	Rabbit Biotinylated antibody against SARS-CoV-2 (COVID-19) Spike Protein Subunit 2 (S2) Protein, 50 µg
08720411SP	MP Bio Anti-coronavirus (SARS-CoV-2) spike S2 (B), mouse, mAb
130-10761B-50SP	Raybiotech Rabbit Biotinylated antibody against SARS-CoV-2 (COVID-19) Spike Protein Subunit 2 (S2) Protein, 50 µg
CSB-RA33245A1GMY-50SP	S Antibody 50ul
CSB-RA33245A1GMY-10SP	S Antibody 100ul
AGEL2109SP	SARS-COV/SARS-COV-2 Spike Monoclonal Antibody(2019-nCoV), 100µL
AGEL2110SP	SARS-COV/SARS-COV-2 Spike Monoclonal Antibody(2019-nCoV), 100µL
AGEL2111SP	SARS-COV/SARS-COV-2 Spike Monoclonal Antibody(2019-nCoV), 100µL
AGEL2112SP	SARS-COV/SARS-COV-2 Spike S1 Monoclonal Antibody(2019-nCoV), 100µL
AGEL2113SP	SARS-COV/SARS-COV-2 Spike RBD Polyoclonal Antibody(2019-nCoV), 100µL

Product Code	Description
Nucleocapsid Protein Antibodies	
130-10760-100SP	Raybiotech Rabbit antibody against SARS-CoV-2 (COVID-19) Nucleocapsid Protein
130-10760B-50SP	Raybiotech Rabbit Biotinylated antibody against SARS-CoV-2 (COVID-19) Nucleocapsid Protein, 50 ug
CSB-RA33255A1GMY-50SP	N Antibody 50ul
CSB-RA33255A1GMY-100SP	N Antibody 100ul
CSB-RA33255A1GMY-100SP	SARS-COV/SARS-COV-2 NP Monoclonal Antibody(2019-nCoV), 100µL
CSB-RA33255A1GMY-100SP	SARS-COV/SARS-COV-2 NP ScFv Monoclonal Antibody(2019-nCoV), 100µL
CSB-RA33255A1GMY-100SP	SARS-COV/SARS-COV-2 NP Monoclonal Antibody(2019-nCoV), 100µL
CSB-RA33255A1GMY-100SP	SARS-COV/SARS-COV-2 NP Monoclonal Antibody(2019-nCoV), 100µL

HOST-INTERACTOME PROTEIN ANTIBODIES

Product Code	Description
AGEL2118SP	ACE2 Polyclonal Antibody, 60µL
AGEL2119SP	ACE2 Polyclonal Antibody, 120µL
CSB-PA866317LA01HUSP	Rabbit anti-Human ACE2 Polyclonal antibody, 50ug
CSB-PA001150GA01HUSP	Rabbit anti-Human ACE2 Polyclonal antibody, 50ul
CSB-PA001827LA01HUSP	Rabbit anti-Human ANPEP Polyclonal antibody, 50ug
CSB-PA001827GA01HUSP	Rabbit anti-Human ANPEP Polyclonal antibody, 50ul
CSB-PA06229A0RbSP	Rabbit anti-Human DPP4 Polyclonal antibody, 50ug
CSB-PA007139GA01HUSP	Rabbit anti-Human DPP4 Polyclonal antibody, 50ul

DETECT VIRAL PROTEINS BY ELISA



VERSATILE
compatible with supernatant, lysates, plasma and serum



SENSITIVE
detect pg amounts of protein



ACCURATE
low intra and inter-assay variability

Product Code	Description
ELV-COVID19N-1SP	COVID-19 N-Protein ELISA 1 x 96-Well Strip Microplate Kit
ELV-COVID19N-SP	COVID-19 N-Protein ELISA 2 x 96-Well Strip Microplate Kit
ELV-COVID19N-5SP	COVID-19 N-Protein ELISA 5 x 96-Well Strip Microplate Kit

CORONAVIRUS-HOST INTERACTOME TARGETS PRODUCTS

SARS-CoV-2 uses its spike protein to bind with the ACE-2 receptor on the cell surface. This binding triggers internalisation of the viral particle and is the first stage in cell infection and viral replication. Therefore it is a critical step in Covid-19 infection. ELISAs give the researcher a fast accurate and high-throughput method to quantify viral particles and ACE2 in a range of fluids including serum, plasma, cell lysates and cell culture supernatants.

Product Code	Description
HUFI00026SP	ELISAGenie Human ACE2 ELISA Kit
ELH-ACE2SP	Raybiotech Human ACE-2 ELISA
CSB-E04489hSP	Human Angiotensin converting enzyme 2, ACE2 ELISA Kit 1 x 96-well microplate
CSB-EL001827HUSP	Human alanyl (membrane) aminopeptidase (ANPEP)ELISA kit 1 x 96-well microplate
CSB-E12994hSP	Human Cluster of differentiation 147,CD147 Elisa Kit 1 x 96-well microplate
CSB-E13450hSP	Human cathepsin B (CTSB) ELISA kit 1 x 96-well microplate
ELH-CD147-1SP	Human CD147/EMMPRIN ELISA 1 x 96-well microplate
ELH-ProCathB-1SP	Human Pro-Cathepsin B ELISA
HUFI00066SP	Human Emmprin / CD147 ELISA Kit 1x96-well plate
HUEB0183SP	Human cathepsin B (CTSB) ELISA kit 1 x 96-well microplate
HUEB0227SP	Human Dipeptidyl peptidase 4 (DPP4) ELISA Kit 1 x 96-well microplate
HUFI02902SP	Human TMPRSS2 / Transmembrane Protease, Serine 2 ELISA Kit 1x96-well microplate

ACE2 ASSAYS

Product Code	Description
ELV-COVID19N-5SP	Angiotensin II Converting Enzyme (ACE2) Inhibitor Screening Kit (BN00569), 100 assays
ELV-COVID19N-5SP	Angiotensin II Converting Enzyme (ACE2) Activity Assay Kit (Fluorometric) (BN01071), 100 assays



MULTIPLEX SPIKE PROTEIN ARRAY

- Semi-quantitative detection of IgM and IgG antibodies
- 14 peptides detected
- S protein S1 receptor binding domain, full-length S protein, full-length N protein

Product Code	Description
PAH-SASP-G1-1SP	COVID-19 Spike Protein Array 16 sample kit
* Larger kit sizes available	

IGG/IGM ELISA KITS

Product Code	Description
CSB-EL3325HU5P	Human Novel Coronavirus Nucleoprotein (SARS-CoV-2 N) IgG Antibody ELISA kit, 96 Tests
CSB-EL3325HU-5SP	Human Novel Coronavirus Nucleoprotein (SARS-CoV-2 N) IgG Antibody ELISA kit, 5 x 96 Tests
CSB-EL3325HU-10SP	Human Novel Coronavirus Nucleoprotein (SARS-CoV-2 N) IgG Antibody ELISA kit, 10 x 96 Tests
IE-CoVN-IgG-1SP	COVID-19 N-Protein Human IgG ELISA Kit 1 x 96-Well Strip Microplate Kit
IE-CoVN-IgG-2SP	COVID-19 N-Protein Human IgG ELISA Kit 2 x 96-Well Strip Microplate Kit
IE-CoVN-IgG-5SP	COVID-19 N-Protein Human IgG ELISA Kit 5 x 96-Well Strip Microplate Kit
IE-CoVS1RBD-IgG-1SP	COVID-19 S-Protein (S1RBD) Human IgG ELISA Kit 1 x 96-Well Strip Microplate Kit
IE-CoVS1RBD-IgG-2SP	COVID-19 S-Protein (S1RBD) Human IgG ELISA Kit 2 x 96-Well Strip Microplate Kit
IE-CoVS1RBD-IgG-5SP	COVID-19 S-Protein (S1RBD) Human IgG ELISA Kit 5 x 96-Well Strip Microplate Kit

PROTEIN A AND G PURIFICATION KITS



FAST
no-wait workflow



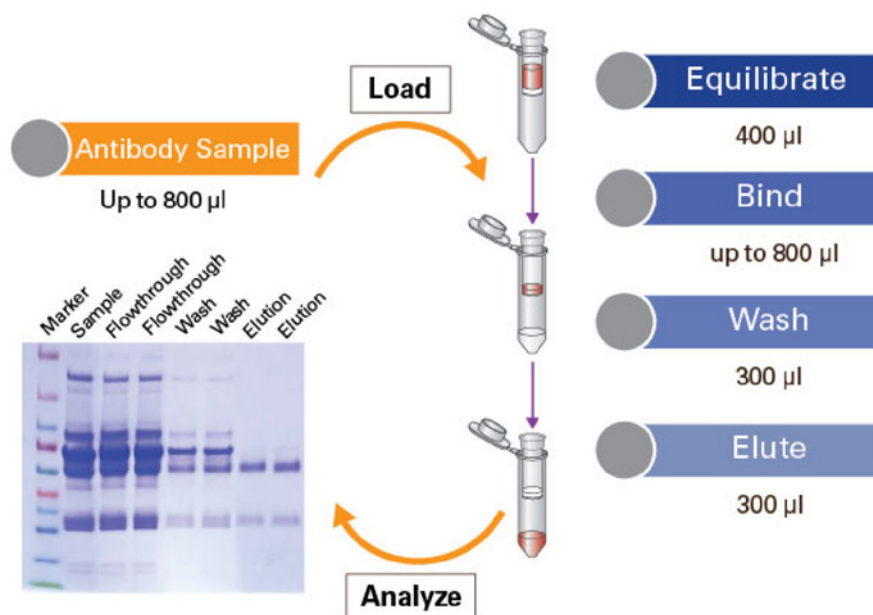
EFFICIENT
80% of any antibody can be eluted
in as little as 100 µl elution buffer



EASE OF USE
simple column based protocol



AVAILABLE
in different formats and preparation
sizes



Product Code	Product Name
635716	Capturem™ Protein A 96 (96 Purifications)
635717	Capturem™ Protein A Miniprep (12 Purifications)
635720	Capturem™ Protein A Maxiprep (6 Columns)
635725	Capturem™ Protein G Miniprep 10 Purifications)
635726	Capturem™ Protein G 96 (96 Purifications)
635727	Capturem™ Protein G Maxiprep (6 Columns)

EXTRACELLULAR VESICLE PURIFICATION KITS



APPLICATION
Viral Infection and
Transmission studies



FAST
30 mins protocol



EASY-TO-USE
simple column based
protocol



NO NEED FOR ULTRACENTRIFUGATION
simple column based protocol



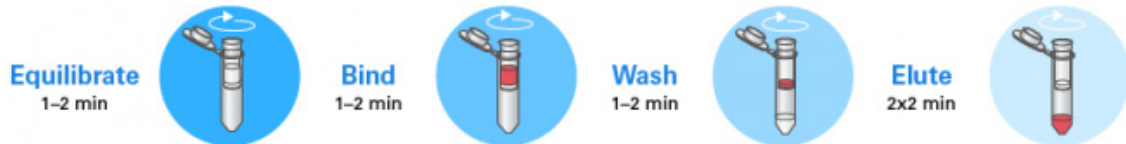
PURIFIES AND CONCENTRATES
no contamination



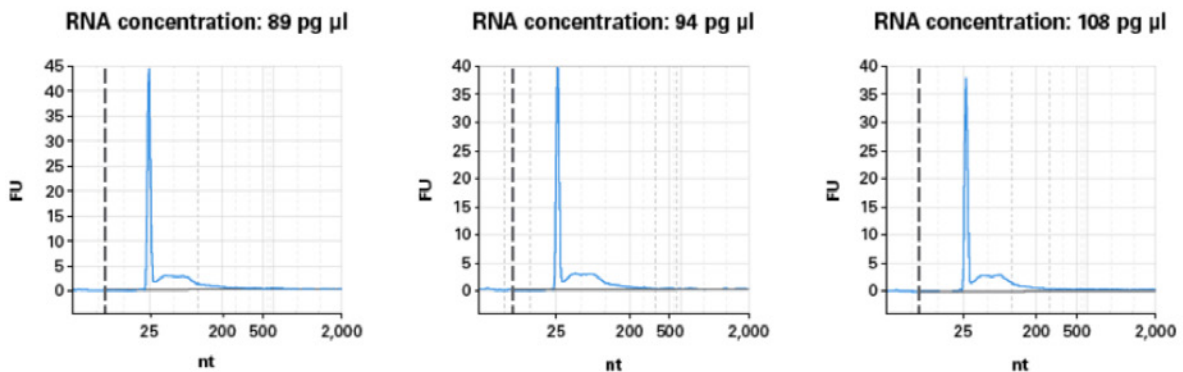
EXCELLENT YIELD
sufficient for downstream analysis (genomic/
transcriptomic/proteomic)



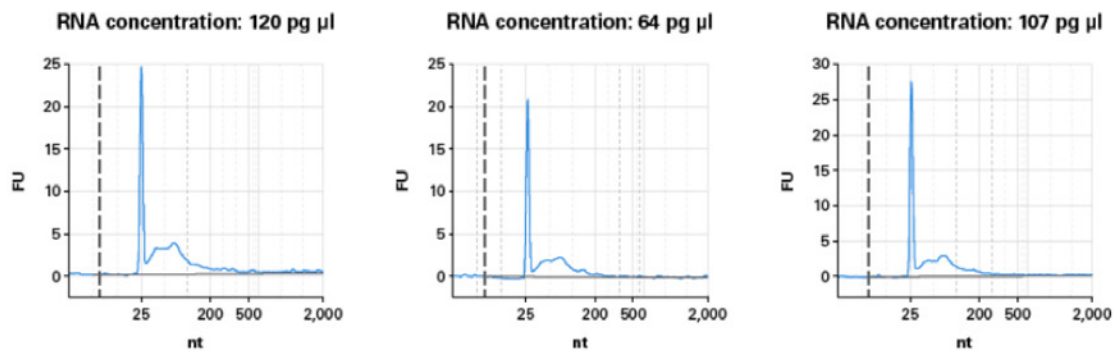
ISOLATION SOURCES
serum, urine, saliva, CSF, breast milk, cell culture media



A 50 μ l plasma on one Capturem EV mini column



B 300 μ l plasma, ultracentrifugation



Product Code

635741

Product Name

Capturem™ Extracellular Vesicle isolation Kit (20 Minipreps)

FLOW CYTOMETRY BASED METHOD FOR ANTI-VIRAL RESPONSE



ANALYSE

multiplex 2-24 analytes in a single sample!



HIGH PRECISION

Intra-assay CV < 10% | Inter-assay CV: < 20%



FAST

2 hour protocol!



LOW VOLUMES

use as little as 15ul of sample



SENSITIVE

measure as low as <10 pg/ml of each analyte



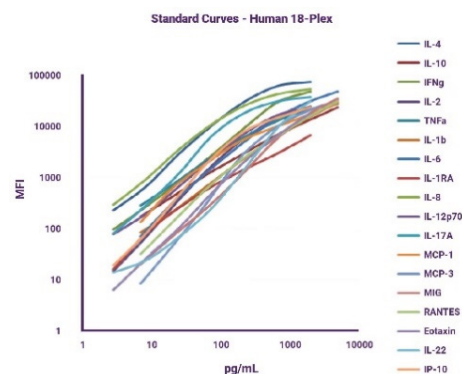
VALIDATED

all assays fully tested for cross-reactivity in our lab



DYNAMIC

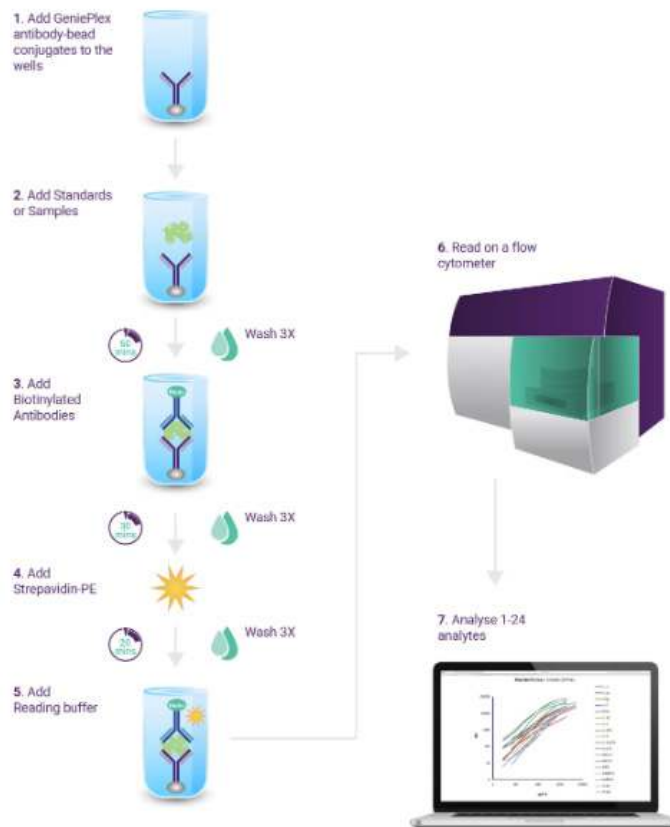
lower limit < 20 pg/mL | Upper limit > 5,000 pg/mL



Genieplex kits allow researchers to multiplex up to 24 analytes using as little as 15µL by Flow Cytometry! Over 400 analytes to choose from. Contact your local rep for more information.

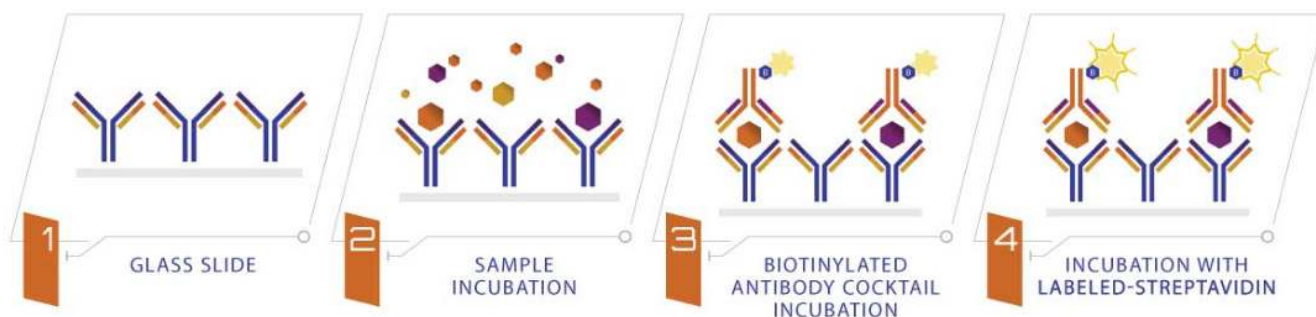
Product Code	Description
HUAMCOV01SP	COVID-19 Multiplex Cytokine Immunoassay; IL2, IL7, IL10, GSCF, IP10, MCP1, MIP1A, and TNFα
MOAMCOV01SP	Mouse COVID19 Multiplex Cytokine Immunoassay (havent tested); IL-2, IL-7, IL-10/CSIF, GCSF/CSF-3, IP-10/CXCL10, MCP-1/JE/CCL2, MIP-1 alpha/CCL3, and TNF-alpha.
RTAMCOV01SP	Rat COVID19 Multiplex Cytokine Immunoassay; IL2, IL10, GSCF, IP10, MCP1, MIP1A, and TNFα
MKAMCOV01SP	NHP COVID19 Multiplex Cytokine Immunoassay; IL-2, IL-10, IP-10/CXCL10, MCP-1/JE/CCL2, and TNFalpha
HUAMCOV02SP	Cytokine Release Syndrome Multiplex Panel 3-plex; IL-6, IL-10, and IFN-gamma
MOAMCOV02SP	Mouse 3-Plex Cytokine Release Syndrome Multiplex Panel 1; IL-6, IL-10, and IFN-gamma
RTAMCOV02SP	Rat 3-Plex Cytokine Release Syndrome Multiplex Panel 1; IL-6, IL-10, and IFN-gamma
MKAMCOV02SP	NHP 3-Plex Cytokine Release Syndrome Multiplex Panel 1; IL-6, IL-10, and IFN-gamma
HUAMCOV03SP	Cytokine Release Syndrome Multiplex Panel 7-plex; IL-6, IL-10, IFN-gamma, TNF-alpha, IL-1beta, IL-8/CXCL8, and CCL2/SYCA2/MCP-1
MOAMCOV03SP	Mouse 7-Plex Cytokine Release Syndrome Multiplex Panel 1; IL-6, IL-10, IFN-gamma, TNF-alpha, IL-1beta, CXCL1/KC/CINC1/KC/Gro alpha (there is no IL-8 in Mouse. KC is a homologous), and MCP-1/JE/CCL2
RTAMCOV03SP	Rat 7-Plex Cytokine Release Syndrome Multiplex Panel 1; IL-6, IL-10, IFN-gamma, TNF-alpha, IL-1beta/IL-1F2, GRO alpha/KC/CINC1 (there is no IL-8 in Rat. KC is a homologous), and MCP-1/JE/CCL2
MKAMCOV03SP	NHP 7-Plex Cytokine Release Syndrome Multiplex Panel 1; IL-6, IL-10/CSIF, IFN-gamma, TNF-alpha, IL-1beta, IL-8/CXCL8, and MCP-1/JE/CCL2

Product Code	Description
HUAMCOV04SP	Cytokine Release Syndrome Multiplex Panel 5-plex; IL-6, IL-10, IFN-gamma, CCL2/SYCA2/MCP-1, and GM-CSF/CSF-2
MOAMCOV04SP	Mouse 5-Plex Cytokine Release Syndrome Multiplex Panel 1; IL-6, IL-10, IFN-gamma, MCP-1/JE/CCL2, and GM-CSF/CSF-2
RTAMCOV04SP	Rat 5-Plex Cytokine Release Syndrome Multiplex Panel 1; IL-6, IL-10, IFN-gamma, MCP-1/JE/CCL2, and GM-CSF/CSF-3
MKAMCOV04SP	NHP 5-Plex Cytokine Release Syndrome Multiplex Panel 1; IL-6, IL-10/CSIF, IFNgamma, and MCP-1/JE/CCL2
HUAMCOV05SP	Cytokine Release Syndrome Multiplex Panel 9-plex; IL-6, IL-10, IFN-gamma, CCL2/SYCA2/MCP-1, GM-CSF/CSF-2, TNF-alpha, IL-1beta, IL-2, and IL-8/CXCL8
MOAMCOV05SP	Mouse 9-Plex Cytokine Release Syndrome Multiplex Panel 2; IL-6, IL-10, IFN-gamma, MCP-1/JE/CCL2, GM-CSF/CSF-2, TNF-alpha, IL-1beta, IL-2, and CXCL1/KC/CINC1/KC/Gro alpha
RTAMCOV05SP	Rat 9-Plex Cytokine Release Syndrome Multiplex Panel 2; IL-6, IL-10, IFN-gamma, MCP-1/JE/CCL2, GM-CSF/CSF-2, TNF-alpha, IL-1beta, IL-2, and GRO alpha/KC/CINC1.
MKAMCOV05SP	NHP 8-Plex Cytokine Release Syndrome Multiplex Panel 2; IL-6, IL-10/CSIF, IFN-gamma, MCP-1/JE/CCL2, TNF-alpha, IL-1beta, IL-2, and IL-8/CXCL8



QUANTITATIVE SLIDE BASED INFLAMMATORY ARRAYS

How It Works



- Measure 40 analytes from only 50µl of sample
- Standards supplied with kit
- Target proteins are spotted in quadruplicate
- Over 1000 publications
- Predesigned and custom panels available

Contact your rep for information on panels available and pricing

Product Code	Description
QAH-INF-1-1	Human Inflammation Array Q1 – 8 samples (larger kits available) IL-1 alpha, IL-1 beta, IL-4, IL-6, IL-8, IL-10, IL-13, MCP-1, IFN-gamma, TNF alpha
QAH-INF-3-1	Human Inflammation Array Q3 – 8 samples (larger kits available) BLC, Eotaxin-1, Eotaxin-2, G-CSF, GM-CSF, I-309, ICAM-1, IFN-gamma, IL-1 alpha, IL-1 beta, IL-1 ra, IL-2, IL-4, IL-5, IL-6, IL-6 sR, IL-7, IL-8, IL-10, IL-11, IL-12 p40, IL-12 p70, IL-13, IL-15, IL-16, IL-17, MCP-1, M-CSF, MIG, MIP-1 alpha, MIP-1 beta, MIP-1 delta, PDGF-BB, RANTES, TIMP-1, TIMP-2, TNF alpha, TNF beta, sTNFR1, sTNFR2
QAH-TH-1-1	Human Th1/Th2 Array Q1 – 8 sample kits (larger kits available) GM-CSF, IFN-gamma, IL-10, IL-13, IL-2, IL-4, IL-5, IL-6, IL-8 (CXCL8), TNF alpha

KEY INFLAMMATORY ELISAS

Product Code	Description
HUFI00180SP	Human IL6 ELISA Kit, 96 Assays
HUFI00128SP	Human Furin ELISA Kit, 96 Assays
HUFI00262SP	Human TNF alpha ELISA Kit, 96 Assays
HUFI00184SP	Human IL 8 ELISA Kit, 96 Assays
HUFI00196SP	Human MCP-1 / CCL2 ELISA Kit, 96 Assays
HUFI02788SP	Human pro interleukin 1 beta / pro IL1 beta ELISA Kit, 96 Assays
HUFI02571SP	Human IFN alpha / Interferon Alpha ELISA Kit, 96 Assays
HUFI00357SP	Human Interferon beta / IFN beta ELISA Kit, 96 Assays

COVID-19 DRUG ELISA AND ANTIBODIES TO TOCILIZUMAB (ACTEMRA)



EASY-TO-USE

ELISA based system



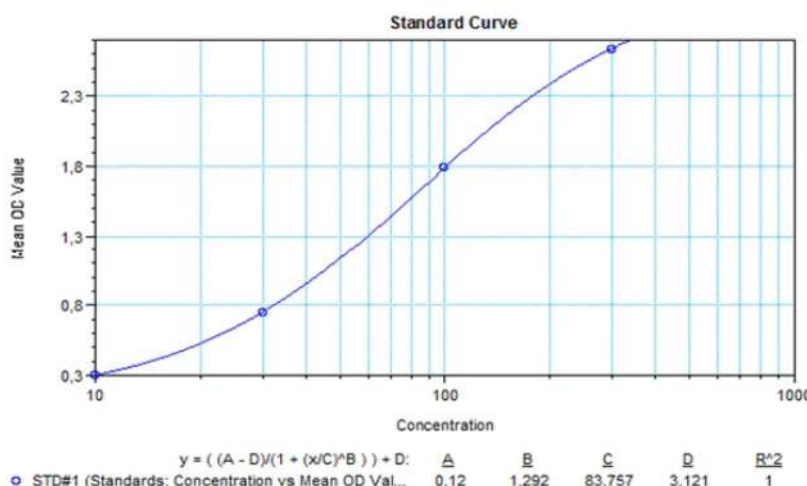
SENSITIVE

detection limit 10ng/ml



SPEED

total time only 70 minutes



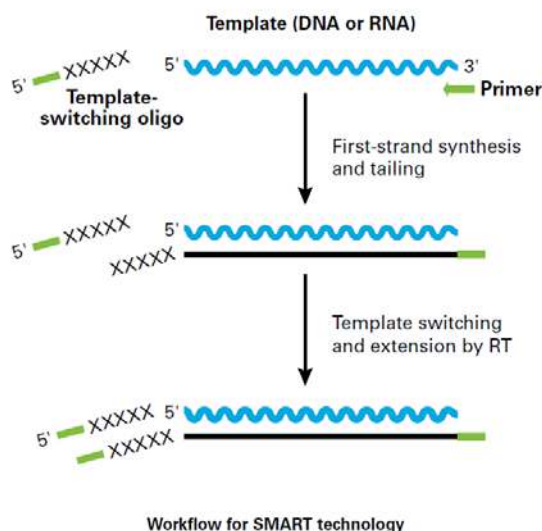
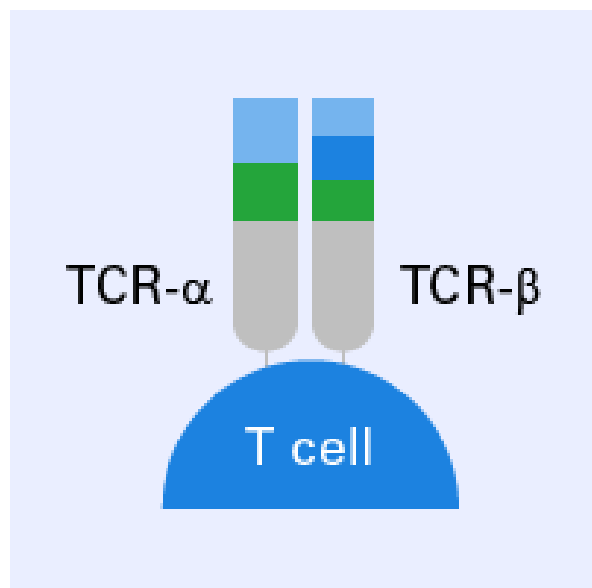
Product Code	Description
ELISAADA	Anti-Tocilizumab (Actemra®) ADA ELISA Kit

SMALL MOLECULES AND INHIBITORS TO COVID-19 DRUGS

Product Code	CAS#	Name	Target Candidate	Size
331-11756-1SP	131707-23-8	Arbidol HCl	Viral spike glycoprotein for binding to host cell receptor ACE2	10mM (in 1mL DMSO)
331-11756-2SP				10mg
331-11642-1SP	155213-67-5	Ritonavir	HIV protease	10mM (in 1mL DMSO)
331-11642-3SP				10mg
331-11643-1SP	192725-17-0	Lopinavir	Coronavirus main protease 3CLpro	10mM (in 1mL DMSO)
331-11643-3SP				10mg
331-11645-1SP	206361-99-1	Darunavir	HIV Protease	10mM (in 1mL DMSO)
331-11645-3SP				5mg
332-10301-1SP	36791-14-5	Ribavirin	RNA-dependent RNA polymerase	100mg
331-11962-1SP	54-05-7	Chloroquine diphosphate	Malaria (endosome/ACE2)	10mM (in 1mL DMSO)
331-11962-2SP				100mg
331-11871-1SP	55981-09-4	Nitazoxanide	Viral protein expression	10mM (in 1mL DMSO)
331-11871-2SP				10mg
332-10779-1SP	59721-29-8	Camostat mesylate	Transmembrane protease, serine 2, primes S protein to facilitate its binding to ACE2	10mg
331-21357-1SP	747-36-4	Hydroxychloroquine sulphate	Malaria (endosome/ACE2)	10mM (in 1mL H2O)
331-21357-2	1187595-84-1	Baricitinib phosphate	JAK kinase that regulate the inflammatory processes	50mg
332-10769-1				5mg

*Other pack sizes are available

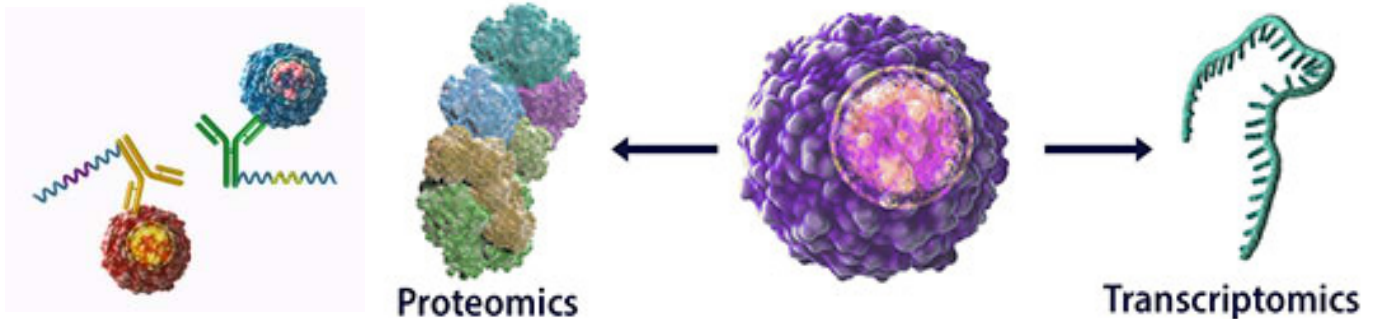
TAKARA B AND T CELL AND LOW INPUT RNA SEQ



- During pandemics, NGS is a valuable tool to help researchers understand the immune response to infection and treatments.
- Takara B and T cell receptor kits
 - enable users to analyse the B and T cell receptor repertoires from total RNA from PBMCs by Illumina sequencing
 - Sequence information from as few as 50 cells
 - Ligation free protocol
- The SMARTSeq v4 Ultra Low Input RNA kit allows full length transcriptome analysis
 - Ultra low input: as little as 10pg of total RNA. This kit is ideal for single cell RNA-seq.
 - Super easy single tube protocol
 - Full length coverage with SMART technology

Product Code	Description
634466SP	SMARTer® Human BCR IgG IgM H/K/L Profiling Kit (12 Rxns)
634467SP	SMARTer® Human BCR IgG IgM H/K/L Profiling Kit (48 Rxns)
635014SP	SMARTer® Human TCR a/b Profiling Kit (12 Rxns)
635016SP	SMARTer® Human TCR a/b Profiling Kit (96 Rxns)
634888SP	SMART-Seq® v4 Ultra® Low Input RNA Kit for Sequencing (12 Rxns)
634889SP	SMART-Seq® v4 Ultra® Low Input RNA Kit for Sequencing (24 Rxns)
634890SP	SMART-Seq® v4 Ultra® Low Input RNA Kit for Sequencing (48 Rxns)
634891	SMART-Seq® v4 Ultra® Low Input RNA Kit for Sequencing (96 Rxns)

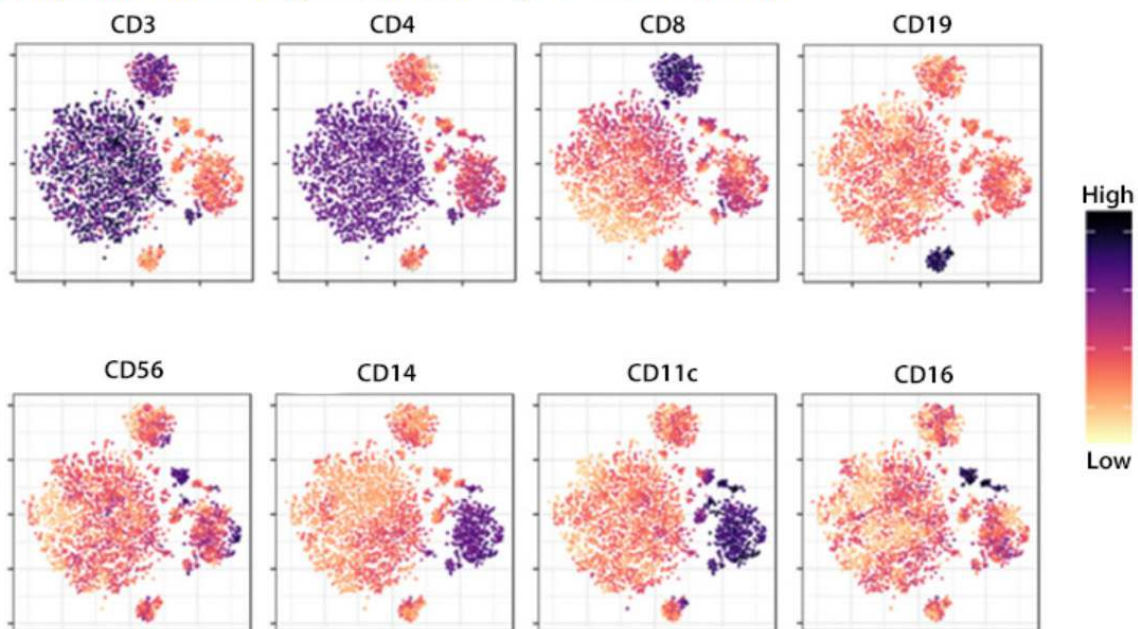
TOTALSEQ™ REAGENTS FOR SINGLE CELL PROTEOGENOMICS



TotalSeq are oligo-conjugated antibodies enable highly multiplexed, single-cell proteogenomic studies

- Oligo-conjugated antibodies integrate seamlessly into existing single-cell RNA seq workflows
- Increase the power of experiments by combining proteomic and transcriptomic data
- Detect multiple proteins in each cell alongside RNA-seq data
- 100's of protein targets and custom options available

Identify Major Immune Cell Types with TotalSeq™ Human TBNK Panel



Human PBMCs were stained with the TotalSeq™ Human TBNK panel containing TotalSeq™-A antibodies against CD3, CD4, CD8, CD11c, CD14, CD16, CD19, CD45, and CD56 (NCAM).

Coronavirus COVID-19



Help prevent coronavirus



Wash your
hands



Cover mouth if
coughing or sneezing



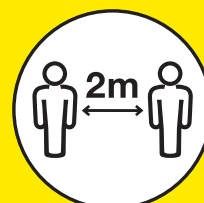
Avoid touching
your face



Keep surfaces
clean



Stop shaking
hands and hugging



Keep a safe
distance

The virus spreads in sneeze and cough droplets, so regularly taking the above measures helps reduce the chance of it spreading.

Visit [HSE.ie](https://www.hse.ie)

For updated factual information and advice

Or call 1850 24 1850

Protection from coronavirus.
It's in our hands.



Rialtas na hÉireann
Government of Ireland