

Functional Cell-based Bioassays and Immunoassays for Biologics Drug Development

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Human ADCC Reporter Bioassays

Bioassay	Cell Components	Part #
ADCC Reporter Bioassays		
Complete Kit (WIL2-S) ¹	FcγRIIIa-V158 Effector Cells Target Cells: WIL2-S or Raji cells	G7014
Complete Kit (Raji)		G7015
Core Kit ²		G7010
Core Kit 5X		G7018
Target Kit (WIL2-S) ³		G7013
Target Kit (Raji)		G7016
Propagation Model ⁴		G7102
CD38 Knock-Out Core Kit	FcγRIIIa-V158 Effector Cells, CD38-KO	CS313304
CD38 Knock-Out Core Kit 5X		CS313306
CD38 Knock-Out, Propagation Model		CS313302
Control Ab, Anti-CD20	N/A	GA1130
ADCC Reporter Bioassay, F Variant⁵		
Core Kit ²	FcγRIIIa-F158 Effector Cells	G9790
Core Kit 5X		G9798
Propagation Model ⁴		G9302
Target Cells for ADCC Reporter Bioassays⁶		
Membrane TNFα Target Cells	Membrane TNFα Target Cells	J3331
Membrane TNFα Target Cells 5X		J3335
Membrane TNFα Target Cells, Propagation Model		J3322
Membrane VEGF Target Cells	Membrane VEGF Target Cells	J3351
Membrane VEGF Target Cells 5X		J3355
Membrane VEGF Target Cells, Propagation Model		J3342
Membrane RANKL Target Cells	Membrane RANKL Target Cells	J3381
Membrane RANKL Target Cells 5X		J3385
Membrane RANKL Target Cells, Propagation Model		J3362
PD-1 Target Cells ⁷	PD-1 Cells	Please Enquire
CTLA-4 Target Cells ⁷	CTLA-4 Cells	Please Enquire
SARS-CoV-2 CHO-K1 Cells	SARS-CoV-2 CHO-K1 Cells	CS3195A05
SARS-CoV-2 CHO-K1 Cells 5X		CS3195A06
SARS-CoV-2 CHO-K1 Cells, Propagation Model		CS3195A08

Mouse ADCC Bioassays

Bioassay	Cell Components	Part #
Mouse FcγRIV ADCC Reporter Bioassay		
Complete Kit ¹	Mouse FcγRIV Effector Cells	M1201
Core Kit ²		M1211
Core Kit 5X		M1215
Propagation Model ⁴		M1212
Mouse FcγRIII ADCC Reporter Bioassay		
Core Kit ²	Mouse FcγRIII Effector Cells	CS1779B08
Propagation Model ⁴		CS1779B06

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Human PBMC ADCC Bioassays

Bioassay	Cell Components	Part #
Human PBMC, ADCC-Qualified		
Human PBMC, ADCC-Qualified	Human PBMC, ADCC Qualified	CS3055A01
Human PBMC, ADCC Qualified 5X		Please Enquire
Human PBMC ADCC Bioassay Kits		
PBMC ADCC Bioassay Kit (Raji)	Human PBMC, ADCC Qualified Raji Cells (HiBiT) ²⁴	CS3055A14
PBMC ADCC Bioassay Kit 5X (Raji)		CS3055A17
PBMC ADCC Bioassay Kit (Ramos)	Human PBMC, ADCC Qualified Ramos Cells (HiBiT) ²⁴	CS3055A20
PBMC ADCC Bioassay Kit 5X (Ramos)		CS3055A22
PBMC ADCC Bioassay Kit (SK-BR-3)	Human PBMC, ADCC Qualified SK-BR-3 Cells (HiBiT) ²⁴	CS3055A36
PBMC ADCC Bioassay Kit 5X (SK-BR-3)		CS3055A38
PBMC ADCC Bioassay Kit (A549)	Human PBMC, ADCC Qualified A549 Cells (HiBiT) ²⁴	CS3055A24
PBMC ADCC Bioassay Kit 5X (A549)		CS3055A26
PBMC ADCC Bioassay Kit (H929)	Human PBMC, ADCC Qualified H929 Cells (HiBiT) ²⁴	CS3055A28
PBMC ADCC Bioassay Kit 5X (H929)		CS3055A30

Human ADCP Bioassays

Bioassay	Cell Components	Part #
FcγRIIIa-H ADCP Reporter Bioassay		
Complete Kit ¹	FcγRIIIa-H131 Effector Cells	G9901
Core Kit ²		G9991
Core Kit 5X		G9995
Propagation Model ⁴		G9871
FcγRIIIa-R ADCP Reporter Bioassay		
Core Kit ²	FcγRIIIa-R131 Effector Cells	CS1781B08
Propagation Model ⁴		CS1781B06
FcγRI ADCP Reporter Bioassay		
Core Kit ²	FcγRI Effector Cells	GA1341
Core Kit 5X		GA1345
Propagation Model ⁴		GA1332
Cell Bank ²⁵		GA1330
ADCP Reporter Bioassay (THP-1)		
ADCP Reporter Bioassay (THP-1)	ADCP Bioassay Effector Cells (THP-1)	CS314904
ADCP Reporter Bioassay (THP-1) 5X		CS314906
ADCP Reporter Bioassay (THP-1), Propagation Model		CS314902

Human Fc Receptor Binding Immunoassays

Product	# Assays	Part #
Lumit™ FcR Binding Immunoassays		
FcRn Binding Immunoassay	100 assays	W1151
FcRn Binding Immunoassay 10X	1000 assays	W1152
FcγRI Binding Immunoassay	100 assays	CS3041A01
FcγRIIA (H131) Binding Immunoassay	100 assays	CS3041A02
FcγRIIA (R131) Binding Immunoassay	100 assays	CS3041A03
FcγRIIIA (V158) Binding Immunoassay	100 assays	CS3041A04
FcγRIIIA (F158) Binding Immunoassay	100 assays	CS3041A05

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Other Human Fc Receptor Bioassays

Bioassay	Cell Components	Part #
FcγRIIb Reporter Bioassay		
Core Kit ²	FcγRIIb/IIa Effector Cells ⁸	CS1781E02
Core Kit 5X		CS1781E04
Propagation Model ⁴		CS1781E07
FcγR Effector Bioassay Bundles		
Human FcγR Bioassay 5-Pack	1 each: FcγRIIIa-V158, FcγRIIIa-F158, FcγRIIIa-H131, FcγRIIIa-R131, FcγRI Effector Cells	CS1781D02

Target Cell Killing – HiBiT Target Cells

Bioassay	Part #
HiBiT Target Cells	
Raji Cells (HiBiT)	CS3055A02
Raji Cells (HiBiT), Propagation Model	CS3055A04
Raji CD19-KO Cells (HiBiT) (*parental cells – CS3000A45)	CS3000A47
Raji CD19-KO Cells (HiBiT), Propagation Model (*parental cells – CS3000A18)	CS3000A20
Raji CD20-KO Cells (HiBiT) (*parental cells – CS3000A45)	CS3000A69
Raji CD20-KO Cells (HiBiT), Propagation Model (*parental cells – CS3000A18)	CS3000A56
Raji CD-19, CD20-KO Cells (HiBiT), Propagation Model (*parental cells – CS3000A18)	CS3000A57
Ramos Cells (HiBiT)	CS3055A05
Ramos Cells (HiBiT), Propagation Model	CS3055A07
Ramos CD19-KO Cells (HiBiT), Propagation Model (*parental cells – CS3000A22)	CS3000A24
A549 Cells (HiBiT)	CS3055A08
A549 Cells (HiBiT), Propagation Model	CS3055A10
Claudin 18.2 CHO-K1 (HiBiT), Propagation Model	CS347203
SK-BR-3 Cells (HiBiT)	CS3055A35
SK-BR-3 Cells (HiBiT), Propagation Model	CS3055A33
H929 Cells (HiBiT)	CS3055A11
H929 Cells (HiBiT), Propagation Model	CS3055A13
U937 Cells (HiBiT), Propagation Model	CS3000A08
OVCAR3 Cells (HiBiT)	CS3000A40
OVCAR3 Cells (HiBiT), Propagation Model	CS3000A29
SKOV3 Cells (HiBiT)	CS3000A43
SKOV3 Cells (HiBiT), Propagation Model	CS3000A33
T2 Cells (HiBiT), Propagation Model	CS3000A35
K562 Cells (HiBiT)	CS3000A52
K562 Cells (HiBiT), Propagation Model	CS3000A50
GPC3 K562 Cells (HiBiT)	CS3000A66
GPC3 K562 Cells (HiBiT), Propagation Model	CS3000A64
CD19 K562 Cells (HiBiT), Propagation Model	CS3000A25
BCMA K562 Cells (HiBiT), Propagation Model	CS3000A16
Membrane TNFα CHO-K1 Cells (HiBiT)	CS3055A46
Membrane TNFα CHO-K1 Cells (HiBiT), Propagation Model	CS3055A44
SARS-CoV2-S CHO-K1 Cells (HiBiT)	CS3195A01
SARS-CoV2-S CHO-K1 Cells (HiBiT), Propagation Model	CS3195A04
Vectors	
HiBiT Vector (CAG promoter, BlastR)	CS1956B17

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Immune Checkpoint Co-Inhibitory Bioassays

Bioassay	Cell Components	Part #
PD-1/PD-L1 Blockade Bioassay		
PD-1/PD-L1 Blockade Bioassay ⁹	PD-1 Effector Cells PD-L1 aAPC/CHO-K1 Cells ¹⁰	J1250
PD-1/PD-L1 Blockade Bioassay 5X		J1255
PD-1/PD-L1 Blockade Bioassay, Propagation Model ⁴		J1252
PD-L1 Negative Cells	PD-L1 Negative aAPC/CHO-K1 Cells	J1191
PD-L1 Negative Cells 5X		J1195
Control Ab, Anti-PD-1	N/A	J1201
Mouse PD-1/PD-L1 Blockade Bioassay		
Mouse PD-1/PD-L1 Blockade Bioassay Kit ⁹	Mouse PD-1 Effector Cells Mouse PD-L1 aAPC/CHO-K1 Cells ¹⁰	CS303201
Mouse PD-1/PD-L1 Blockade Bioassay Kit 5X		CS303205
Mouse PD-1/PD-L1 Blockade Bioassay, Propagation Model ⁴		CS303209
PD-1/PD-L2 Blockade Bioassay		
PD-1/PD-L2 Blockade Bioassay Kit ⁹	PD-1 Effector Cells PD-L2 aAPC/CHO-K1 Cells ¹⁰	CS187131
PD-1/PD-L2 Blockade Bioassay Kit 5X		CS187135
PD-1/PD-L2 Blockade Bioassay, Propagation Model ⁴		CS187142
PD-L2 aAPC/CHO-K1 Cells, Propagation Model ⁴	PD-L2 aAPC/CHO-K1 Cells ¹⁰	CS187141
CTLA-4 Blockade Bioassay		
CTLA-4 Blockade Bioassay ⁹	CTLA-4 Effector Cells aAPC/Raji Cells ¹⁰	JA3001
CTLA-4 Blockade Bioassay 5X		JA3005
CTLA-4 Blockade Bioassay, Propagation Model ⁴		JA1400
Control Ab, Anti-CTLA-4	N/A	JA1020
TIGIT/CD155 Blockade Bioassay²³		
TIGIT/CD155 Blockade Bioassay ⁹	TIGIT Effector Cells CD155 aAPC/CHO-K1 Cells ¹⁰	J2201
TIGIT/CD155 Blockade Bioassay 5X		J2205
TIGIT/CD155 Blockade Bioassay, Propagation Model ⁴		J2092
TIGIT Negative Cells	TIGIT Negative Effector Cells	J1921
CD112R/CD112 Blockade Bioassay		
CD112R/CD112 Blockade Bioassay Kit ⁹	CD112R Effector Cells CD112 aAPC/CHO-K1 Cells ¹⁰	CS314006
CD112R/CD112 Blockade Bioassay Kit 5X		CS314008
CD112R/CD112 Blockade Bioassay, Propagation Model ⁴		CS314001
Control Ab, Anti-TIGIT	N/A	J2051
TIGIT/CD112 Blockade Bioassay		
TIGIT/CD112 Blockade Bioassay Kit ⁹	TIGIT Effector Cells CD112 aAPC/CHO-K1 Cells	CS198826
TIGIT/CD112 Blockade Bioassay Kit 5X		CS198829
TIGIT/CD112 Blockade Bioassay, Propagation Model ⁴		Please Enquire
CD226/CD155 Blockade Bioassay		
CD226/CD155 Blockade Bioassay Kit ⁹	TCR/CD3 Effector Cells (IL-2) CD155 aAPC/CHO-K1 Cells ¹⁰	CS1978F01
CD226/CD155 Blockade Bioassay, Propagation Model ⁴		Please Enquire

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Immune Checkpoint Co-Inhibitory Bioassays (cont.)

Bioassay	Cell Components	Part #
LAG-3/MHCII Blockade Bioassay		
LAG-3/MHCII Blockade Bioassay ¹¹	LAG-3 Effector Cells MHCII APC Cells	JA1111
LAG-3/MHCII Blockade Bioassay 5X		JA1115
LAG-3/MHCII Blockade Bioassay, Propagation Model ⁴		JA1112
TCR Activating Antigen	N/A	K1201
Control Ab, Anti-LAG-3		K1150
TIM-3 Bioassay		
TIM-3 Bioassay Kit ⁹	TIM-3 Effector Cells TIM-3 Target Cells	JA2211
TIM-3 Bioassay Kit 5X		JA2215
TIM-3 Bioassay, Propagation Model ⁴		JA2222
Control Ab, Anti-TIM-3	N/A	K1210
ICOS Blockade Bioassay¹³		
ICOS Blockade Bioassay Kit ⁹	ICOS Effector Cells ICOSL aAPC/CHO-K1 Cells ¹⁰	JA6001
ICOS Blockade Bioassay Kit 5X		JA6005
ICOS Blockade Bioassay, Propagation Model ⁴		JA6072
Control Ab, Anti-ICOS	N/A	K1241
CD28 Blockade Bioassay⁵		
CD28 Blockade Bioassay Kit ⁹	CD28 Effector Cells aAPC/Raji Cells ¹⁰	JA6101
CD28 Blockade Bioassay Kit 5X		JA6105
CD28 Blockade Bioassay, Propagation Model ⁴		JA7072
Control Ab, Anti-CD28	N/A	K1231
BTLA/HVEM Blockade Bioassay		
BTLA/HVEM Blockade Bioassay Kit ⁹	BTLA Effector Cells HVEM aAPC/CHO-K1 Cells ¹⁰	CS1978E04
BTLA/HVEM Blockade Bioassay Kit 5X		CS1978E08
BTLA/HVEM Blockade Bioassay, Propagation Model ⁴		CS1978E01
SIRPα/CD47 Blockade Bioassays¹²		
SIRPα/CD47 Blockade Bioassay, Fc-Dependent ⁹	SIRPα Effector Cells CD47 CHO-K1 Target Cells	CS316013
SIRPα/CD47 Blockade Bioassay, Fc-Dependent 5X		CS316015
SIRPα/CD47 Blockade Bioassay, Fc-Dependent, Propagation Model ⁴		CS316005
SIRPα/CD47 Blockade Bioassay	SIRPα Effector Cells CD47/FcγR-A CHO-K1 Target Cells	CS316009
SIRPα/CD47 Blockade Bioassay 5X		CS316011
SIRPα/CD47 Blockade Bioassay, Propagation Model ⁴		CS316004
ILT4/HLA-G Blockade Bioassay⁹ <i>*ILT4 also known as LILRB2</i>		
ILT4/HLA-G Blockade Bioassay	ILT4 Effector Cells HLA-G aAPC/CHO-K1 Cells	CS331106
ILT4/HLA-G Blockade Bioassay 5x		CS331108
ILT4/HLA-G Blockade Bioassay, Propagation Model		CS331103

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Immune Checkpoint Co-Stimulatory Bioassays

Bioassay	Cell Components	Part #
4-1BB Bioassay		
4-1BB Bioassay ⁹	4-1BB Effector Cells	JA2351
4-1BB Bioassay 5X		JA2355
4-1BB Bioassay, Propagation Model ⁴		J2332
Control Ab, Anti-4-1BB	N/A	K1161
CD40 Bioassay		
CD40 Bioassay Kit ⁹	CD40 Effector Cells	JA2151
CD40 Bioassay Kit 5X		JA2155
CD40 Bioassay, Propagation Model ⁴		J2132
Control Ab, Anti-CD40	N/A	K1181
OX40 Bioassay		
OX40 Bioassay Kit ⁹	OX40 Effector Cells	JA2191
OX40 Bioassay Kit 5X		JA2195
OX40 Bioassay, Propagation Model ⁴		J2172
Control Ab, Anti-OX40	N/A	K1191
Mouse OX40 Bioassay, Propagation Model ⁴	Mouse OX40 Effector Cells	CS326802
GITR Bioassay		
GITR Bioassay Kit ⁹	GITR Effector Cells	JA2291
GITR Bioassay Kit 5X		JA2295
GITR Bioassay, Propagation Model ⁴		J2272
Control Ab, Anti-GITR	N/A	K1171
ICOS Bioassay¹⁴		
ICOS Bioassay, Core Kit ⁹	ICOS Effector Cells	JA6801
ICOS Bioassay, Core Kit 5X		JA6805
ICOS Bioassay, Propagation Model ⁴	ICOS Effector Cells FcγRIIb aAPC/CHO-K1 Cells	JA3072
Control Ab, Anti-ICOS	N/A	K1241
CD28 Bioassay¹⁴		
CD28 Bioassay, Core Kit ⁹	CD28 Effector Cells	JA6701
CD28 Bioassay, Core Kit 5X		JA6705
CD28 Bioassay, Propagation Model ⁴	CD28 Effector Cells FcγRIIb aAPC/CHO-K1 Cells	JA1072
Control Ab, Anti-CD28	N/A	K1231
HVEM/LIGHT Bioassay		
HVEM/LIGHT Bioassay Kit ⁹	HVEM Effector Cells	CS1979A30
HVEM/LIGHT Bioassay Kit 5X		CS1979A32
HVEM/LIGHT Bioassay, Propagation Model ⁴		CS1979A16
LIGHT CHO-K1 Cells, Propagation Model	LIGHT CHO-K1 Cells	Please Enquire
CD27 Bioassay		
CD27 Bioassay Kit ⁹	CD27 Effector Cells	CS1979A23
CD27 Bioassay Kit 5X		CS1979A25
CD27 Bioassay, Propagation Model ⁴		CS1979A15
CD70 Cells ¹⁵	CD70 CHO-K1 Cells	CS1979A19
DR3 Bioassay		
DR3 Bioassay Kit ⁹	DR3 Effector Cells	CS1979E03
DR3 Bioassay Kit 5X		CS1979E06
DR3 Bioassay, Propagation Model ⁴		CS1979E02

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Accessory Cell Kits for Immune Checkpoint Co-Stimulatory Bioassays

Fc γ RIIb ⁺ CHO-K1 Cells for GITR, 4-1BB, OX40, and CD40 Bioassays	Cell Components	Part #
Fc γ RIIb CHO-K1 Cells ¹⁶	Fc γ RIIb CHO-K1 Cells	JA2251
Fc γ RIIb CHO-K1 Cells 5X		JA2255
Fc γ RIIb CHO-K1 Cells, Propagation Model ⁴		J2232
Fc γ RIIb ⁺ aAPC/CHO-K1 Cells for ICOS & CD28 Bioassays	Cell Components	Part #
Fc γ RIIb aAPC/CHO-K1 Cells ¹⁷	Fc γ RIIb aAPC/CHO-K1 Cells ¹⁰	JA9331
Fc γ RIIb aAPC/CHO-K1 Cells 5X		JA9335
Fc γ RIIb aAPC/CHO-K1 Cells, Propagation Model		J3252
aAPC/CHO-K1 Cells for ICOS & CD28 Bioassays	Cell Components	Part #
aAPC/CHO-K1 Cells ¹⁷	aAPC/CHO-K1 Cells ¹⁰	JA9441
aAPC/CHO-K1 Cells 5X		JA9445
aAPC/CHO-K1 Cells Propagation Model		J3312

Immune Checkpoint Combination Bioassays

Bioassay	Cell Components	Part #
PD-1+CTLA-4 Combination Bioassay		
PD-1+CTLA-4 Combination Bioassay ⁹	PD-1+CTLA-4 Effector Cells PD-L1 aAPC/Raji Cells ¹⁰	CS1978D04
PD-1+CTLA-4 Combination Bioassay 5X		CS1978D08
PD-1+CTLA-4 Combination Bioassay, Propagation Model ⁴		CS1978D03
PD-1+TIGIT Combination Bioassay		
PD-1+TIGIT Combination Bioassay ⁹	PD-1+TIGIT Effector Cells PD-L1+CD155 aAPC/CHO-K1 Cells ¹⁰	J2211
PD-1+TIGIT Combination Bioassay 5X		J2215
PD-1+TIGIT Combination Bioassay, Propagation Model ⁴		J2102
TIGIT Negative Cells	TIGIT Negative Effector Cells	J1921
PD-1+LAG-3 Combination Bioassay		
PD-1+LAG-3 Combination Bioassay Kit ⁹	PD-1+LAG-3 Effector Cells PD-L1+MHCII APC Cells	CS1978B11
PD-1+LAG-3 Combination Bioassay Kit 5X		CS1978B15
PD-1+LAG-3 Combination Bioassay, Propagation Model ⁴		CS1978B07
PD-1+4-1BB Combination Bioassay		
PD-1+4-1BB Combination Bioassay Kit ⁹	PD-1+4-1BB Effector Cells PD-L1 aAPC/CHO-K1 Cells ¹⁰	CS1978I05
PD-1+4-1BB Combination Bioassay Kit 5X		CS1978I07
PD-1+4-1BB Combination Bioassay, Propagation Model ⁴		CS1978I03
PD-1+OX40 Combination Bioassay		
PD-1+OX40 Combination Bioassay Kit ⁹	PD-1+OX40 Effector Cells PD-L1 aAPC/CHO-K1 Cells ¹⁰	CS307804
PD-1+OX40 Combination Bioassay Kit, 5X		CS307805
PD-1+OX40 Combination Bioassay Kit, Propagation Model ⁴		Please Enquire

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T Cell Activation Bioassays

Bioassay	Cell Components	Part #
T Cell Activation Bioassay (IL-2)¹⁸		
T Cell Activation Bioassay (IL-2) ⁹	TCR/CD3 Effector Cells (IL-2)	J1651
T Cell Activation Bioassay (IL-2) 5X		J1655
T Cell Activation Bioassay (IL-2), Propagation Model ⁴		J1631
T Cell Activation Bioassay (IL-2), Propagation Model ⁴ – Nluc Version	TCR/CD3 Effector Cells (IL-2) – Nluc Version	CS187005
T Cell Activation Bioassay (NFAT)¹⁸		
T Cell Activation Bioassay (NFAT) ⁹	TCR/CD3 Effector Cells (NFAT)	J1621
T Cell Activation Bioassay (NFAT) 5X		J1625
T Cell Activation Bioassay (NFAT), Propagation Model ⁴		J1601
T Cell Activation Bioassay (NFkB)¹⁸		
T Cell Activation Bioassay (NFkB), Propagation Model	TCR/CD3 Effector Cells (NFkB)	CS1979A01
T Cell Activation Bioassays (TCRαβ-KO)		
T Cell Activation Bioassay (TCRαβ-KO, CD4+), Propagation Model ⁴	TCRαβ-KO (CD4+) Cells	GA1172
T Cell Activation Bioassay (TCRαβ-KO, CD4+), Cell Bank ²⁵		GA1210
T Cell Activation Bioassay (TCRαβ-KO, CD8+), Propagation Model ⁴	TCRαβ-KO (CD8+) Cells	GA1162
T Cell Activation Bioassay (TCRαβ-KO, CD8+), Cell Bank ²⁵		GA1220
T Cell Activation Bioassay (TCRαβ-KO, CD4+, CD8+), Propagation Model ⁴	TCRαβ-KO (CD4+CD8+) Cells	GA1182
T Cell Activation Bioassay (TCRαβ-KO, CD4+, CD8+), Cell Bank ²⁵		GA1230
TCRαβ-KO, CD4+CD8+ Cells ¹⁹		Please Enquire
TCRαβ-KO (CD4+CD8+) Cells 5X		Please Enquire
TCR Transfection Positive Control Kit ²³	MHCII APC Cells	CS310109
DMF5 TCRαβ-KO (CD8+), Propagation Model ²⁰	DMF5 TCRαβ-KO Cells (CD8+)	CS310108

T Cell Dependent Cellular Cytotoxicity (TDCC) Bioassays

Bioassay	Cell Components	Part #
Human T Cell (CD8+) TDCC Bioassay Kits		
Human T Cell (CD8+) TDCC Bioassay Kit (Ramos)	Human T Cell (CD8+), TDCC-Qualified Ramos Cells (HiBiT) ²⁴	CS3055B02
Human T Cell (CD8+) TDCC Bioassay Kit 5X (Ramos)		CS3055B05
Human T Cell (CD8+) TDCC Bioassay Kit (H929)	Human T Cell (CD8+), TDCC-Qualified H929 Cells (HiBiT) ²⁴	CS3055B08
Human T Cell (CD8+) TDCC Bioassay Kit 5X (H929)		CS3055B09
Human T Cell (CD8+) TDCC Bioassay Kit (SK-BR-3)	Human T Cell (CD8+), TDCC-Qualified H929 Cells (HiBiT) ²⁴	CS3055B10
Human T Cell (CD8+) TDCC Bioassay Kit 5X (SK-BR-3)		CS3055B11
Human T Cell (CD8+), TDCC Qualified		
Human T Cell (CD8+), TDCC Qualified	Human T Cell (CD8+), TDCC-Qualified	CS3055B03
Human T Cell (CD8+), TDCC Qualified 5X		CS3055B06

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Innate Immune Receptor Bioassays

Bioassay	Cell Components	Part #
TLR Bioassay²¹		
TLR Bioassay Kit ⁹	TLR Bioassay Cells	CS317904
TLR Bioassay Kit 5X		CS317906
TLR Bioassay, Propagation Model ⁴		CS317902
ILT4/HLA-G Blockade Bioassay⁹ <i>*ILT4 also known as LILRB2</i>		
ILT4/HLA-G Blockade Bioassay	ILT4 Effector Cells HLA-G aAPC/CHO-K1 Cells	CS331106
ILT4/HLA-G Blockade Bioassay 5x		CS331108
ILT4/HLA-G Blockade Bioassay, Propagation Model		CS331103

PsVLP Assays

Bioassay	Cell Components	Part #
SARS-CoV-2 HiBiT-PsVLP Assay, Complete Kit	SARS-CoV-2 S(G614) HiBiT-PsVLPs SARS-CoV-2 HEK293T(LgBiT) Target Cells	CS329524
SARS-CoV-2 HiBiT-PsVLP Assay, Complete Kit 5X	SARS-CoV-2 S(G614) HiBiT-PsVLPs SARS-CoV-2 HEK293T(LgBiT) Target Cells	CS329528
SARS-CoV-2 HiBiT-PsVLP Assay, Target Kit	SARS-CoV-2 HEK293T(LgBiT) Target Cells	CS329531
SARS-CoV-2 HiBiT-PsVLP Assay, Target Kit 5X	SARS-CoV-2 HEK293T(LgBiT) Target Cells	CS329532
SARS-CoV-2 S(G614) HiBiT-PsVLPs		CS329501
SARS-CoV-2 S(G614) HiBiT-PsVLPs 5X		CS329502
SARS-CoV-2 S(Delta) HiBiT-PsVLPs		CS329509
SARS-CoV-2 S(Delta) HiBiT-PsVLPs 5X		CS329510
SARS-CoV-2 S(Omicron) HiBiT-PsVLPs		CS329533
SARS-CoV-2 S(Omicron) HiBiT-PsVLPs 5X		CS329534
SARS-CoV-2 S(Alpha) HiBiT-PsVLPs		CS329503
SARS-CoV-2 S(Alpha) HiBiT-PsVLPs 5X		CS329504
SARS-CoV-2 S(Beta) HiBiT-PsVLPs		CS329505
SARS-CoV-2 S(Beta) HiBiT-PsVLPs 5X		CS329506
SARS-CoV-2 S(Gamma) HiBiT-PsVLPs		CS329507
SARS-CoV-2 S(Gamma) HiBiT-PsVLPs 5X		CS329508
SARS-CoV-2 S(Epsilon) HiBiT-PsVLPs		CS329511
SARS-CoV-2 S(Epsilon) HiBiT-PsVLPs 5X		CS329512
SARS-CoV-2 S(Iota) HiBiT-PsVLPs		CS329513
SARS-CoV-2 S(Iota) HiBiT-PsVLPs 5X		CS329514
SARS-CoV-2 S(Kappa) HiBiT-PsVLPs		CS329515
SARS-CoV-2 S(Kappa) HiBiT-PsVLPs 5X		CS329516
VSV-G HiBiT-PsVLP Assay, Target Kit		CS329531
VSV-G HiBiT-PsVLP Assay, Target Kit 5X		CS329532
SARS-CoV-2 HEK293T(LgBiT) Target Cells		CS329520
SARS-CoV-2 HEK293T(LgBiT) Target Cells 5X		CS329521
SARS-CoV-2 HEK293T(LgBiT) Target Cells, Propagation Model		CS329523

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Cytokine and Growth Factor Bioassays

Bioassay	Part #
IL-1 Bioassay	
IL-1 Bioassay	CS200403
IL-1 Bioassay 5X	CS200405
IL-1 Bioassay, Propagation Model ⁴	CS200401
IL-2 Bioassays	
IL-2 Bioassay	JA2201
IL-2 Bioassay 5X	JA2205
IL-2 Bioassay, Propagation Model ⁴	J2952
IL-2R $\beta\gamma$ Bioassay Kit	CS2018K04
IL-2R $\beta\gamma$ Bioassay Kit 5X	CS2018K06
IL-2R $\beta\gamma$ Bioassay, Propagation Model ⁴	CS2018K02
IL-4 Bioassay	
IL-4 Bioassay Kit	CS2018H06
IL-4 Bioassay Kit 5X	CS2018H07
IL-4 Bioassay, Propagation Model ⁴	CS2018H02
IL-6 Bioassay	
IL-6 Bioassay	JA2501
IL-6 Bioassay 5X	JA2505
IL-6 Bioassay, Propagation Model ⁴	J2992
IL-7 Bioassay	
IL-7 Bioassay Kit	CS2018J04
IL-7 Bioassay Kit 5X	CS2018J06
IL-7 Bioassay, Propagation Model ⁴	CS2018J02
IL-10 Bioassay	
IL-10 Bioassay Kit	CS2018G04
IL-10 Bioassay Kit 5X	CS2018G06
IL-10 Bioassay, Propagation Model ⁴	CS2018G02
IL-12 Bioassay	
IL-12 Bioassay	JA2601
IL-12 Bioassay 5X	JA2605
IL-12 Bioassay, Propagation Model ⁴	J3042
IL-13 Bioassay	
IL-13 Bioassay Kit	CS2018H06
IL-13 Bioassay Kit 5X	CS2018H07
IL-13 Bioassay, Propagation Model ⁴	CS2018H02
IL-15 Bioassay	
IL-15 Bioassay	JA2011
IL-15 Bioassay 5X	JA2015
IL-15 Bioassay, Propagation Model ⁴	J2962
IL-17 Bioassay	
IL-17 Bioassay Kit	CS2018C06
IL-17 Bioassay Kit 5X	CS2018C08
IL-17 Bioassay, Propagation Model ⁴	CS2018C02
IL-21 Bioassay	
IL-21 Bioassay Kit	CS2018M05
IL-21 Bioassay Kit, 5X	CS2018M07
IL-21 Bioassay, Propagation Model ⁴	CS2018M02

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Cytokine and Growth Factor Bioassays (cont.)

Bioassay	Part #
IL-22 Bioassay	
IL-22 Bioassay Kit	CS2018L05
IL-22 Bioassay Kit 5X	CS2018L07
IL-22 Bioassay, Propagation Model ⁴	CS2018L02
IL-23 Bioassay	
IL-23 Bioassay	JA2511
IL-23 Bioassay 5X	JA2515
IL-23 Bioassay, Propagation Model ⁴	J3002
VEGF Bioassays	
VEGF Bioassay	GA2001
VEGF Bioassay 5X	GA2005
VEGF Bioassay, Propagation Model ⁴	GA1082
Recombinant Human VEGF	J2371
VEGFR1 Bioassay	CS2070A04
VEGFR1 Bioassay 5X	CS2070A09
VEGFR1 Bioassay, Propagation Model ⁴	CS2070A02
RANKL Bioassay	
RANKL Bioassay	JA2701
RANKL Bioassay 5X	JA2705
RANKL Bioassay, Propagation Model ⁴	J3102
TGF-β Bioassay	
TGF- β Bioassay Kit	CS2018F03
TGF- β Bioassay Kit 5X	CS2018F06
TGF- β Bioassay, Propagation Model ⁴	CS2018F02
BCMA Bioassay	
BCMA Bioassay Kit	CS311108
BCMA Bioassay Kit 5X	CS311110
BCMA Bioassay, Propagation Model ⁴	CS311106
TPO Receptor (Nplate) Bioassay	
TPO Receptor (Nplate) Bioassay Cells	CS2018E01
TPO Receptor (Nplate) Bioassay, Propagation Model ⁴	CS2018E03

Other Reporter Cell Lines for Biologics Drug Development

Cells & Cell lines	Catalog or CS#
TNF α Reporter Cells	CS177503
TNF α Reporter Cell Line	E8520
IFN α /IFN β Reporter Cell Line	CS190701
IFN α /IFN β Bioassay Kit	CS190704
IFN α /IFN β Bioassay Kit 5X	CS190706
IFN γ Reporter Cell Line	Please Enquire
EPO Reporter Cell Line ²²	CS204002
GM-CSF Reporter Cell Line ²²	
EGF Reporter Cell Line	CS181201
G-CSF Reporter Cell Line	Please Enquire

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- ¹Complete Kits contain thaw-and-use effector cells, target cells, control antibody, cell plating and assay reagents.
- ²Core Kits contain thaw-and-use effector cells, cell plating and assay reagents.
- ³Target Kits contain thaw-and-use target cells, control antibody.
- ⁴Propagation Model includes 2 vials of effector cells.
- ⁵ADCC Reporter Bioassays, F Variant are compatible with the Target Kits listed under "ADCC Reporter Bioassays".
- ⁶Membrane Target Cells are also available in Propagation Model format – *please enquire*.
- ⁷The PD-1 and CTLA-4 Effector Cells included in the PD-1/PD-L1 and CTLA-4 Blockade Bioassays can be used as target cells in an ADCC bioassay.
- ⁸The receptor expressed in the Effector Cells is a chimeric receptor consisting of the extracellular domain of Fc γ R1Ib and the intracellular domain of Fc γ R1Ia.
- ⁹Kits contain the indicated thaw-and-use cell components, cell plating medium, assay reagents.
- ¹⁰aAPC (artificial antigen presenting cells) activate the TCR/CD3 complex on effector cells.
- ¹¹Kits contain the indicated thaw-and-use cell components, TCR Activating Antigen, cell plating medium, assay reagents.
- ¹²The SIRP α /CD47 Blockade Bioassay is available in both Fc-dependent and Fc-independent formats.
- ¹³The ICOS and CD28 Bioassays are available in both blockade and agonist (below) formats.
- ¹⁴The ICOS and CD28 Bioassays are available in both agonist and blockade (above) formats.
- ¹⁵Includes a single vial of CD70 CHO-K1 Cells.
- ¹⁶Kits contain Fc γ R1Ib CHO-K1 Cells and cell plating medium.
- ¹⁷Kits contain Fc γ R1Ib aAPC/CHO-K1 Cells or aAPC/CHO-K1 Cells and cell plating medium.
- ¹⁸T Cell Activation bioassays are available with NFAT, IL-2, or NF κ B promoter response elements.
- ¹⁹Cells available in thaw-and-use format.
- ²⁰The DMF5 TCR recognizes MART-1 presented by class I MHC HLA-A*0201 (*often used in cancer gene therapy*).
- ²¹TLR effector cells express and respond to TLR1, TLR2, TLR4, TLR5, TLR6, TLR7, TLR8.
- ²²The same cell line is responsive to both EPO and GM-CSF.
- ²³Kit contains MHCII APC Cells, TCR Activating Antigen, Positive Control TCR Plasmid, cell plating medium.
- ²⁴HiBiT Target Cells are also available in Propagation Model format.
- ²⁵Cell Banks include 50 vials of effector cells.

For more information on bioassays, visit: www.promeqa.com/bioassay

For more information on custom assays, visit: www.promeqa.com/custom-bio

