

## Streamline Your Protein Biomarker Screening

Discover more when studying human samples with the MILLIPLEX® PLEXpedition 115-Plex Screening Panel

The MILLIPLEX® PLEXpedition Screening Panel is a configurable multiplex immunoassay kit developed to simultaneously screen up to 115 targets including cytokines, chemokines, growth factors, matrix metalloproteinases (MMPs), and biomarkers of bone health, metabolism, and cardiovascular disease. Two Luminex® instruments, the xMAP® INTELLIFLEX® and the FLEXMAP 3D® systems, can analyze all 115 bead regions with comparable sensitivity and sample correlation while the MAGPIX® and Luminex® 200™ instruments can detect specific subsets of 50 and 80 analytes, respectively.

As a discovery biomarker tool, this panel is provided in a matrix-free format to enable analyte detection in multiple sample types. After screening with the MILLIPLEX® PLEXpedition panel to identify markers of interest, you can transition to our Qualified MILLIPLEX® panels, each of which has an optimized serum matrix and lot-to-lot verification for reproducible quantification of protein concentration.

### MILLIPLEX® PLEXpedition Bead Screening Kits & Panel

Cat. No.	HPLX1-115SP	HPLX1-115SP-PX	HPLX1-115SP-PX80
<b>Description</b>	Select any or all analytes from 115 options	Fixed kit of 115 analytes	Fixed kit of 80 selected analytes
<b>Analytes Included</b>	ACTH, Amylin (Active), BCA-1, BDNF, BNP, CK-MB, C-Peptide, DKK1, EGF, ENA-78, Eotaxin, Eotaxin-2, Eotaxin-3, Erythropoietin (EPO), FABP3, FABP4, FGF-2, FGF-21, FGF-23, FLT3 Ligand, Fractalkine, G-CSF, Ghrelin (Active), GIP, GLP-1 Total, Glucagon, GM-CSF, GPC-2, Granzyme A, Granzyme B, GROα, HB-EGF, HGF, I-309, IFNα2, IFNγ, IL-10, IL-11, IL-12 (p40), IL-12 (p70), IL-13, IL-15, IL-17A, IL-17F, IL-18, IL-1Ra, IL-1α, IL-1β, IL-2, IL-21, IL-22, IL-23, IL-3, IL-33, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, Insulin, IP-10, I-TAC, Leptin, LIF, MCP-1, MCP-2, MCP-3, MCP-4, M-CSF, MDC, MIG, MIP-1α, MIP-1β, MIP-1δ, MIP-3α, MIP-3β, MMP-1, MMP-10, MMP-12, MMP-2, MMP-3, MMP-7, MMP-9, Myostatin, NGF, NTproBNP, OPG, OPN, Osteocalcin, Osteonectin, PDGF-AA, PDGF-BB, Perforin, PIGF, PP, PYY, RANTES, sCD40L, SCF, SDF-1, sFAS, sFASL, SOST, TARC, TGFα, TNFα, TNFβ, TPO, TRAIL, Troponin I, TSLP, VEGF-A, VEGF-C, VEGF-D		ACTH, BDNF, C-Peptide, EGF, Eotaxin, FABP4, FGF-2, FLT3 Ligand, Fractalkine, G-CSF, Ghrelin (Active), GIP, GLP-1 Total, Glucagon, GM-CSF, Granzyme A, Granzyme B, GROα, HGF, IFNα2, IFNγ, IL-10, IL-12 (p40), IL-12 (p70), IL-13, IL-15, IL-17A, IL-17F, IL-18, IL-1Ra, IL-1α, IL-1β, IL-2, IL-21, IL-22, IL-23, IL-3, IL-33, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, Insulin, IP-10, I-TAC, Leptin, MCP-1, MCP-3, M-CSF, MDC, MIG, MIP-1α, MIP-1β, MIP-3α, MMP-1, MMP-2, MMP-7, MMP-9, OPG, OPN, PDGF-AA, PDGF-BB, Perforin, PIGF, PP, PYY, RANTES, sCD40L, SCF, sFAS, sFASL, TARC, TGFα, TNFα, TNFβ, TRAIL, Troponin I, VEGF-A
<b>Sample Type</b>	Serum, plasma, cell/tissue culture supernatants		
<b>Precision</b>	≤15% intra-assay %CV for all, ≤20% inter-assay %CV for all except ≤25% for PDGF-AA		

**Table 1.** Assay Characteristics.



### Kit Features

- Includes all reagents necessary to run the assay
- Verified analyte specificity across the entire panel
- Uses same critical raw materials for seamless transition to Qualified Assays
- Sample agnostic for greater flexibility
- Saves sample, time, and money by enabling detection of 115 proteins at one time

### Kit Components

- Premixed beads\*
- Up to seven 10X standard cocktails \*
- Premixed detection antibodies\*
- 1 96-well plate with 2 sealers
- Assay buffer
- 10X wash buffer
- Streptavidin-Phycoerythrin

*\*based on analyte selection*

Select the analytes you need based on the instrument you have.

xMAP® INTELLIFLEX® or FLEXMAP 3D® Instrument						
Luminex® 200™ Instrument						
MAGPIX® Instrument						
EGF	IL-4	MIG	ACTH	M-CSF	Amylin (Active)	MCP-4
FGF-2	IL-5	MIP-1α	BDNF	MCP-3	BCA-1	MIP-1β
Fractalkine	IL-6	MIP-1β	C-Peptide	MDC	BNP	MIP-3β
G-CSF	IL-7	OPN	Eotaxin	MIP-3α	CK-MB	MMP-3
Ghrelin (Active)	IL-8	PDGF-AA	FABP4	MMP-1	GCP-2	MMP-10
GIP	IL-10	PDGF-BB	FLT3 Ligand	MMP-2	DKK1	MMP-12
Glucagon	IL-12 (p40)	Perforin	GLP-1 Total	MMP-7	ENA-78	Myostatin
GM-CSF	IL-12 (p70)	RANTES	Granzyme A	MMP-9	Eotaxin-2	NGF
Granzyme B	IL-13	sCD40L	I-TAC	OPG	Eotaxin-3	NTproBNP
GROα	IL-15	SCF	IL-3	PIGF	Erythropoietin (EPO)	Osteocalcin
HGF	IL-17A	sFAS	IL-9	PP	FABP3	Osteonectin
IFNα2	IL-18	sFASL	IL-17F	PYY	FGF-21	SDF-1
IFNγ	IL-22	TGFα	IL-21	TARC	FGF-23	SOST
IL-1α	IL-23	TNFα	IL-33	TNFβ	HB-EGF	TPO
IL-1β	IP-10	TRAIL	Insulin	Troponin I	I-309	TSLP
IL-1Ra	Leptin	VEGF-A			IL-11	VEGF-C
IL-2	MCP-1				LIF	VEGF-D
					MCP-2	

**Table 2.** Instrument Compatibility by Analyte.

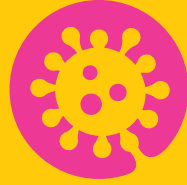
Detect markers spanning multiple research areas



Inflammation/  
Immunology Markers



Metabolism/  
Endocrinology Markers



Cancer Markers



Cardiovascular  
Disease Markers



Bone Markers



Neuroscience Markers



Toxicity Markers

# Maximize Your MILLIPLEX® PLEXpedition Panel with the Luminex® xMAP® INTELLIFLEX® System



Experience the ease of the xMAP® workflow when screening up to 115 analytes with the latest xMAP® INTELLIFLEX® platform.

The Luminex® xMAP® INTELLIFLEX® system is a compact, flow-based, multiplex platform that simplifies your workflow by combining the reliable performance of xMAP® technology with advanced features to elevate your assay performance and empower assay development innovation.



Learn more at  
[SigmaAldrich.com/luminex](https://SigmaAldrich.com/luminex)

## Related MILLIPLEX® Qualified Assays

Panel Name	Cat. No.
Human Cytokine/Chemokine/Growth Factor Panel A	HCYTA-60K
Human Cytokine/Chemokine/Growth Factor Panel B	HCYTB-60K
Human MMP Panel 1	HMMP1MAG-55K
Human MMP Panel 2	HMMP2MAG-55K
Human Bone	HBNMAG-51K
Human Circulating Cancer Biomarker Panel 1	HCCBP1MAG-58K
Human Cancer/Metastasis Biomarker Panel 1	HCMBMAG-22K
Human Angiogenesis/Growth Factor Panel 1	HAGP1MAG-12K
Human CVD Panel 1	HCVD1MAG-67K
Human Metabolic Hormone V3	HMH3-34K
Human Myokine	HMYOMAG-56K



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