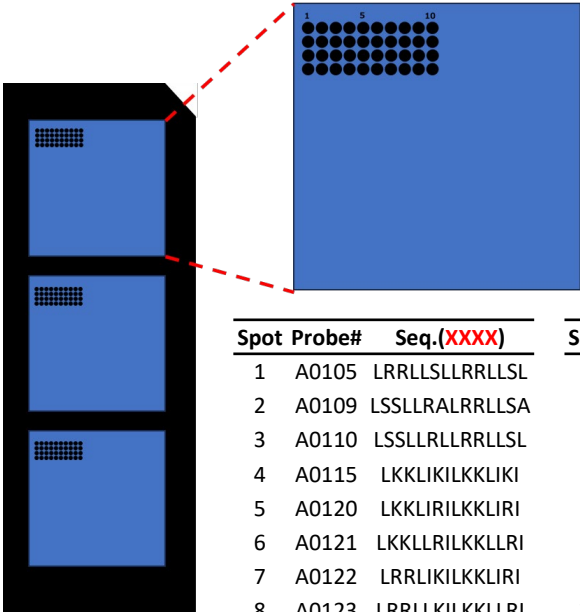


Gastric Cancer Risk (Pre-disease) Classification Chip

PTC-GCM-01

Capture Peptides	40 types of α -Helical peptides (Seq. α -TAMRA-G-XXXX-GC-NH ₂)
Substrate	Maleimide-coated amorphous carbon substrate with 3 Block design
Immobilization Method	Immobilized via a covalent bond between the SH group of the peptide-size cysteine residue and the polymethylene linker on the substrate surface through a maleimide group
Spot diameter	ca 160 μ m
Pitch	ca 450 μ m
Array method	ca 0.14 pmol of peptide was arrayed per spot by microarray spotter
Storage	Store in its dedicated case, keep in dark at 4°C



Refer the instruction video



Array Map
(Location) and
List of Peptides

Spot	Probe#	Seq.(XXXX)
1	A0105	LRRLSLRRLLSL
2	A0109	LSSLLRALRRLLSA
3	A0110	LSSLLRLLRRLLSL
4	A0115	LKKLIKILKKLIKI
5	A0120	LKKLIRILKKLIRI
6	A0121	LKKLLRILKKLLRI
7	A0122	LRRLIKILKKLIRI
8	A0123	LRRLKILKKLLRI
9	A0124	LRRLIKILRRLIKI
10	A0125	LRRLKILRRLLKI
11	A0126	LKKLIEILKKLIEI
12	A0127	LKKLLEILKKLLEI

Spot	Probe#	Seq.(XXXX)
13	A0129	LEELLKILKKLLEI
14	A0138	LKKLISILKKLISI
15	A0139	LKKLSILKKLLSI
16	A0140	LSSLIKILKKLISI
17	A0141	LSSLLKILKKLLSI
18	A0144	LRRLIEILRRLIEI
19	A0157	LRRLSILRRLLSI
20	A0165	LKKLLKFLKKLLKF
21	A0173	LKKLLRFLKKLLRF
22	A0185	LKKLLEFLKKLLEF
23	A0213	LSSLLKFLKKLLSF
24	A0254	LKKLVKVLKKLVKV

Spot	Probe#	Seq.(XXXX)
25	A0255	LKKLLKVLKKLLKV
26	A0258	LKKLVRVLKKLVRV
27	A0259	LKKLRLVLKKLLRV
28	A0260	LRRLVKVLKKLVRV
29	A0261	LRRLKVLKKLLRV
30	A0265	LKKLLEVVLKKLLEV
31	A0267	LEELLKVLKKLLEV
32	A0269	LEELLKVEELLKV
33	A0272	LQQLVKVLKKLVQV
34	A0275	LQQLKVLQQLLKV
35	A0277	LKKLSVLKKLLSV
36	A0279	LSSLLKVLKKLLSV
37	A0291	LQQLRVLRRLLQV
38	A0420	AKKAARVAKKAARV
39	A0457	ASSAVRVARRAVSV
40	A0483	IKKFFSFIKKFFSF

Operation Manual

1. Preparation and Setup:
Place the substrate on a level, clean surface free of dust and debris. Measurement of fluorescence intensity of the substrate, I₀ data using PBS before sample application.
2. Sample Application and Incubation (for 3 blocks) *For each block, perform steps ① and ② in the following order.
① Sample Application: Accurately dispense 10 μ L of sample onto each block.
② Cover Glass Placement: Immediately and gently place the cover glass on top to ensure the dispensed sample spreads evenly across the entire block.
③Processing the Remaining Blocks: Quickly repeat steps ① and ② for the remaining two blocks.
3. Incubation and Measurement
① Sealing: Immediately place the processed plate into the "Plate Reaction Vessel," close the cap securely, and seal it.
② Incubation: Leave the plate at room temperature in a dark place for 15 to 30 minutes.
③ Fluorescence Measurement: After incubation, remove the plate and perform the measurement using a fluorescence detector, I₁.

- 💡 Key Points for Accurate Measurement
Preventing air bubbles: When placing the cover glass, tilt it gently from the edge to avoid trapping air bubbles, which cause noise and/or signal loss during detection.
Avoid drying: Keep the time between dispensing the sample and placing the cover glass as short as possible.
Thorough Light Shielding: Important to store the chip in "dark" to prevent the fluorescent substance from fading. It is recommended that wrapping the container with aluminum foil or storing it in a light-shielding box.

Related Products:
Fluorescence Detector
PepTenCam (PTC-FD15, CP06E)
Other TESTING chip series for research-use:
★ Oral healthcare rapid detection chip: P/N PTC-PDS-01
★ Cerebrospinal fluid Classification Chip (focusing on multiple sclerosis and related diseases): P/N PTC-NDS-01 (Coming soon)