

Procarta Transcription Factor (TF) Plex Assay Frequently Asked Questions

Can Nuclear Extraction Kit (AY2002) samples be used with Procarta TF Plex?	The final composition of the buffers for both the Panomics Nuclear Extraction Kit (AY2002) and the Procarta Nuclear Extraction Kit (PC5101) is the same. Thus, the samples he prepared using the Panomics Nuclear Extraction Kit (AY2002) are compatible with Procarta TF.
Can targets from Panel 1 and Panel 2 be mixed into one plex set?	Unfortunately, Panel 1 and 2 targets cannot be mixed together. You will need to choose targets within one panel.
Has the Procarta TF Plex been validated to work with mouse samples?	The Procarta Transcription Factor Profiling Kits have been tested to work with mouse cells. So the kit is compatible with mouse samples.
How long can nuclear extract be stored?	The nuclear extract samples can be stored at -80 C for up to one year. It is very important to aliquot the samples and avoid multiple freeze thaws.
How long can the nuclear extract be stored?	The nuclear extract samples can be stored at -80 C for up to one year. Based on our experience, the nuclear extract can be freeze/thawed up to 3 times without affecting the results. We don't have specific data to show this though.
What concentration of sample should be used?	Protein concentration of sample inputs should be in the range of .40 – 2 ¼g/¼L. To begin with, each 10 ¼L sample contain a total of 2 ¼g of protein in 10 ul of buffer. We recommend running a 4-point, 2-fold serial dilution to determine the optimal sample input.
What is included in each assay kit?	The Procarta TF Plex kits come with the beads, buffers, plates and detection reagents necessary to run the kit on the Luminex instrument. Each kit also contains reagents for preparing nuclear extracts as well as positive and negative controls for nuclear extract and whole cell lysate samples.
What is the smallest plex size that can be ordered?	You can order a by request (pick-and-choose) plex set for either Panel 1 or Panel 2. Panel 1 allows the selection of 3-39 plex and Panel 2 allows the selection of 3-43 plex. All Procarta TF Plex kits include the NFkB target in order to run the positive control - so this target is counted as a plex selection. For example, if you require 2 assays such as AP-1 and PPAR, you will choose a 3 plex, 1plate assay that includes NFkB, AP-1 and PPAR.
What sample type can I use with the Procarta TF Plex?	You can use either nuclear extract or whole cell lysate with this kit. The reagents for preparing nuclear extract are provided with each Procarta TF Plex kit. We also offer a Whole Cell Lysis kit separately.

Will the Procarta TF Plex distinguish different transcription factor family members?

The Procarta TF Plex is not intended to distinguish different family members or subunits. For example, both PPARalpha and gamma will bind to the PPAR response element. The same follows for NFkBp50 and NFkBp65, both of which will bind to the NFkB response element.