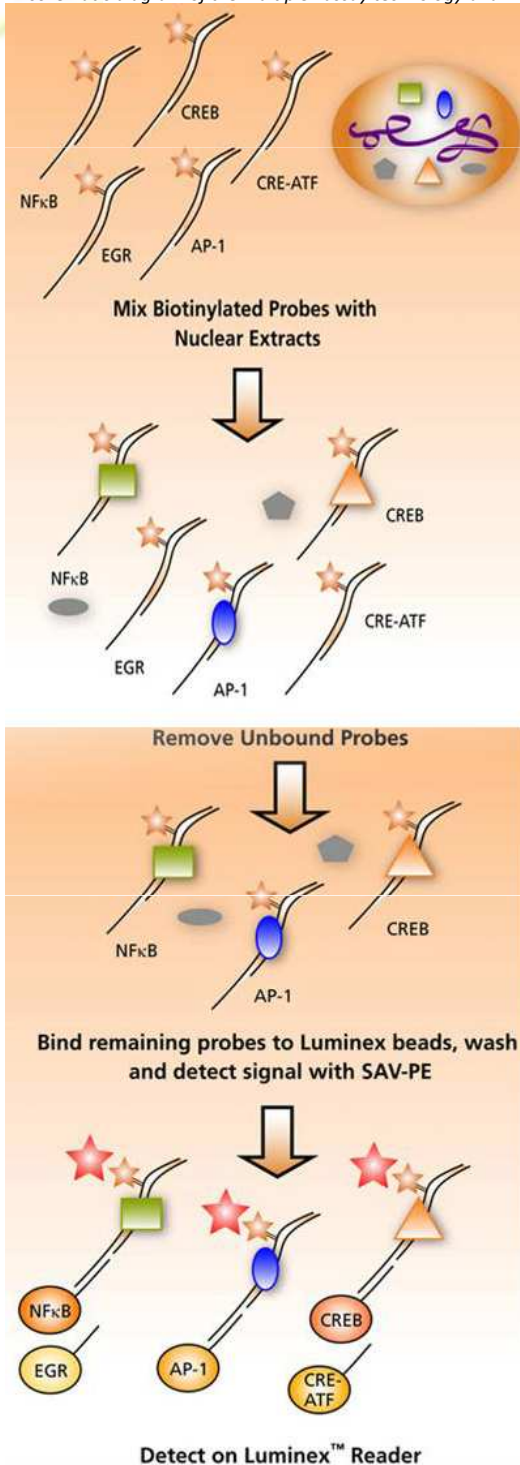


## MULTIPLEX TRANSCRIPTION FACTOR TESTING SERVICE

A schematic diagram of the multiplex assay technology and workflow



The **Multiplex Transcription Factor Assays** employ the Luminex xMAP® platform, a powerful multiplexing approach, for simultaneously measuring the binding of many different transcription factors to their unique regulatory DNA elements.

The technology dramatically accelerates studies ranging from basic research in signal transduction and proteomics to target validation, compound screening, toxicity testing and disease characterization.

### Technology

Protein binding sequences in the probes were mined from the TRANSFAC database and the literature to have the greatest affinity and specificity. The specificity of each binding site has been confirmed experimentally by a combination of methods including gel shifts, ELISAs, competition assays and Western blotting to verify the identity of the bound proteins.

Results are reproducible, with CVs of <10% routinely achieved.

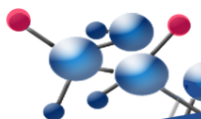
This assays have been designed to facilitate a multiplex format, enabling detection and quantitation of many activated transcription factors simultaneously.

Currently, **up to 50** different transcription factors can be measured simultaneously with the multiplex Transcription Factor Testing Services.

These assays include:

AP-1, AP2, AML-1, AP4, AR, CRE-ATF, C/EBPα, C/EBPβ, C/EBPγ, CREB, E2F1-5, E2F6, EGR, ER, ETS, GATA, HFH2/3, HIC-1, HIF, HNF-1, HNF-3, HNF-4, HSF-1, ISRE, MEF-2, MTF1, c-Myb, Myc-Max, NFAT, NF-1, NFκB, NFY1, Octamer, p53, PAX6, PBX, PLZF, PPAR, SAF-1, SOX9, STAT, SREBP, SMAD1/5, SMAD 2/3, SP1, SRE, TGIF, TAL1, TCF/LEF and YY1

- ✓ **More Sensitive than ELISAs**
- ✓ **Conserves Valuable Samples**
- ✓ **Powerful Tool for Identifying Effects of Drugs**
- ✓ **Compatible With a Wide Range of Sample Types** (Performance has been validated in many cell lines, primary cells and tissues from humans, monkeys and rodents)
- ✓ **Results in less than 3 hours**
- ✓ **Same assay works across many different samples** (e.g tissues, cells)



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