

## > Purpose of the KinaseFinder Service

The KinaseFinder Service is intended to identify protein kinases, which accept a given test sample (protein or biotinylated peptide) as a substrate.

Type of KinaseFinder	Number of protein kinases	Assay Format
Tyr protein kinases	94	<sup>33</sup> PanQinase <sup>™</sup>
Ser/Thr protein kinases	245	<sup>33</sup> PanQinase <sup>™</sup>
Tyr and Ser/Thr protein kinases	339	<sup>33</sup> PanQinase <sup>™</sup>
Wild Type Kinase Panel	376	HotSpot™
Custom panel	Selected by customer	HotSpot™

## > Assay principle

The target substrate is incubated with different kinases in every well of a multi-well plate together with <sup>33</sup>P-ATP that serves as phospate donor.



## Example Data



readout (HotSpot<sup>™</sup>).

Example data with 50 Ser/Thr kinases. Activity of kinases with example substrate protein are shown (corrected for substrate background activity). Substrate protein was tested at one concentration. Yellow: Kinase with substrate protein; blue: Kinase without substrate protein (autophosphorylation). A ratio value between substrate phosphorylation and apparent autophosphorylation > 3 may be considered as significant. Performed with <sup>33</sup>PanQinase<sup>TM</sup> assay. cpm = counts per minute

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