# Protein-works - Protein Mapping

MS Bioworks protein mapping service (MSB-03) enables the identification of the entire sequence of a protein by using three enzymes for digestion. This service is ideal for identifying regions of interest inaccessible to trypsin alone, confirming a primary sequence or finding truncations. The basic experimental workflow is presented below.
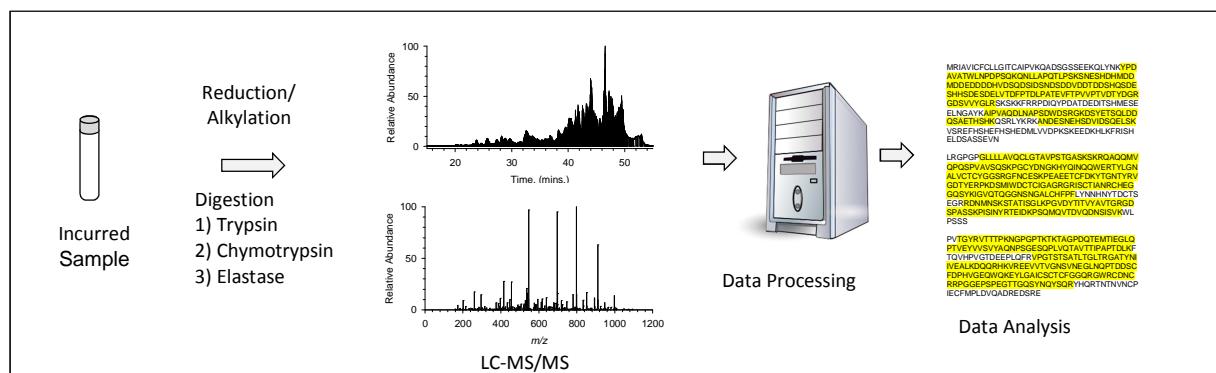
Our protein mapping service is compatible with most buffers and we recommend submitting at least 1μg of material, in gel or solution.

Example: GST-MAPK3

GST-tagged MAPK3 was digested with trypsin, chymotrypsin and elastase. Each digest was analyzed by LC/MS/MS on an Orbitrap Velos Pro tandem mass spectrometer. The target protein was observed with 100% sequence coverage when the data from all three enzymes was combined:

GST-MAPK1 (100%), 69,796.2 Da
GST-MAPK1
638 unique peptides, 863 unique spectra, 1948 total spectra, 609/609 amino acids (100% coverage)
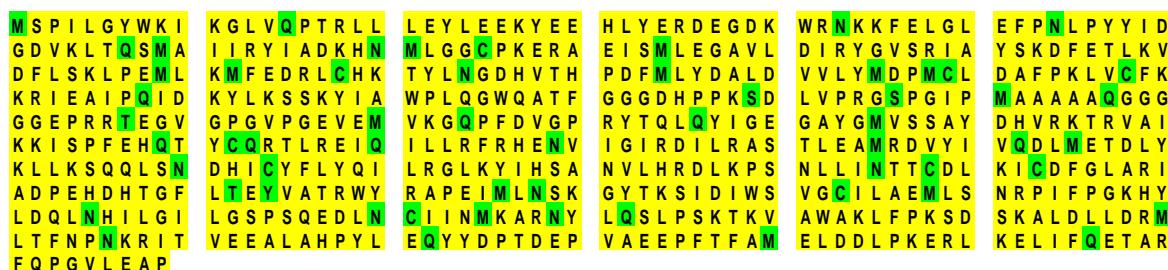
MSB-03 can be ordered directly from our website at www.msbioworks.com.

Service ID	Cost ($)
MSB-03	800

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